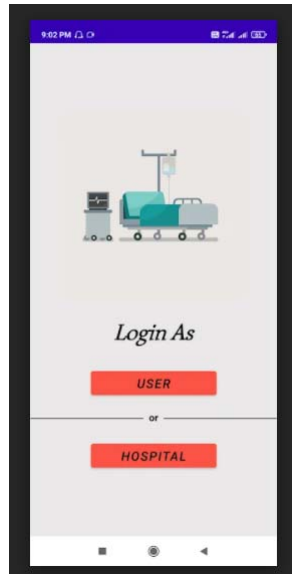
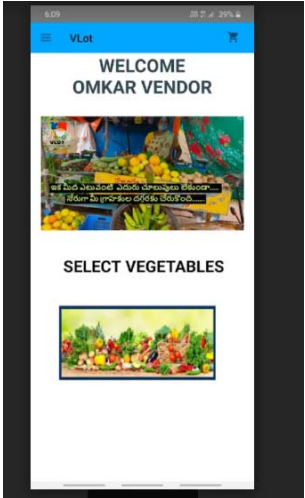


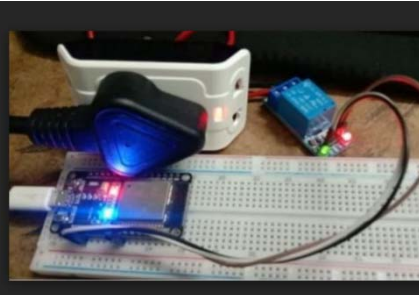
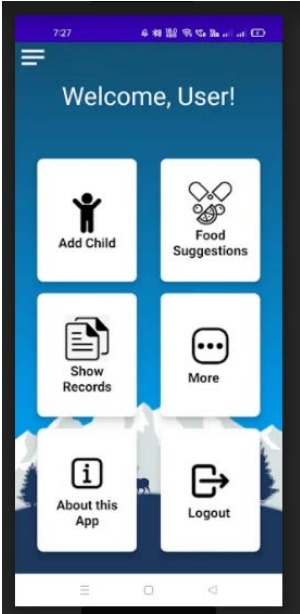
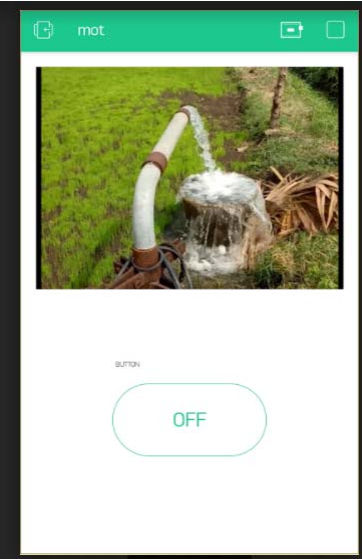


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING :: VRSEC
Product Developments
Academic Year 2020-21

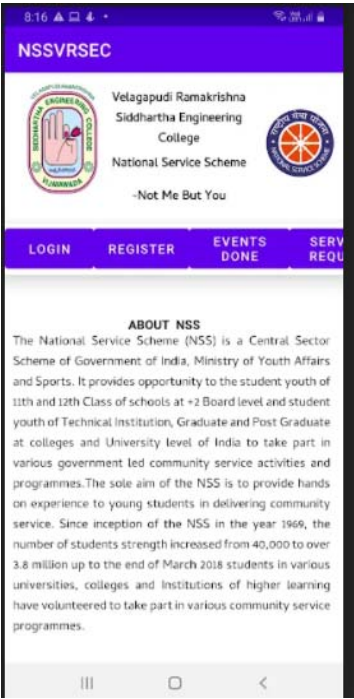
S.No.	Student Reg. No	Student Name	Product/Prototype Title	Product Description	Sample Image
1.	188W1A0532 188W1A0543 188W1A0519 198W5A0507	Mamidi Jaya Sai Sowmya Vaishnavi Pulivarthi Sri Ram Govada Harsha Vardhan Uppalapu Aswini Mentor: Dr Rajeswara Rao	Hospital Bed Availability System	The health sectors are one of the valuable divisions in this world. Doctor-Patient interaction is a key figure in this. Waiting at the hospital for a patient to get appointed is a hectic task especially, during these pandemic phases. So, it is required to devise an android application to reduce the amount of time a person spends on booking a bed. This application responsible for live tracking beds at various hospitals for COVID-19 patients to avoid unnecessary crowding at hospitals. The main aim of this platform is to create an easy and efficient way for patients to be able to live-track and book hospital beds, thus avoiding wasting time by manually going and searching for free beds in various hospitals. The interaction between the hospital and the patient can be simplified for the advantage of both sides.	

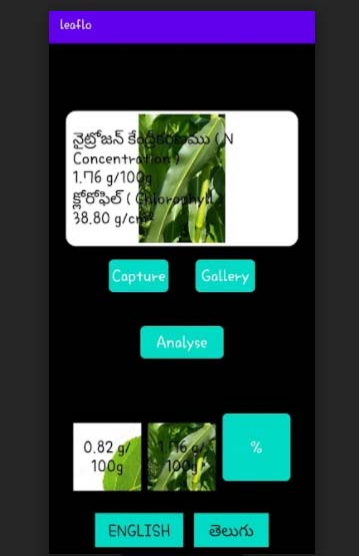
2.	188W1A0544 188W1A0536 198W5A0506 198W5A0503	Puttagunta Yamini Marupudi Gurudatta Tej Tummala Omkar Nampalli Sesha Sai Mentor: Dr K Srinivas	VLOT"-->Vendor Location On Track	<p>Street vendors are an integral part of urban economies around the world, offering easy access to a wide range of goods and services in public spaces. They sell/offers varied products and services to the public through push cart, cycles and food trucks or through a temporary space. They have to roam around for the whole day moving from colony to colony. This is not an effective way of marketing as they cannot reach maximum customers. The existing apps like street saathi are only for the street vendors who sell from a fixed location. Our android application provides a smart interface between customers and street vendors. This application connects customers and street vendors based on their Geo location. This increases the marketing of the vendors as they can reach maximum customers. Keywords – Android application, marketing, Geo Location Services, Smart interface</p>	
3.	188W1A0550 188W1A0510 188W1A0537 188W1A0554	Shaik Sameer Bonda Durga Niharika Matta Rohith Vale Raja Abhishek Mentor: Dr S Vasavi	Automatic Detection of pest and disease from plant leaves using enhanced alexnet deep learning model	<p>Detection of pests in the corn fields is a major challenge in the field of agriculture; therefore effective measures should be developed to fight the infestation while minimizing the use of pesticides. The techniques of image analysis are extensively applied to agricultural science, and it provides maximum protection to crops, which can ultimately lead to better crop management and production. Monitoring of pest infestation relies on manpower, however automatic monitoring has been advancing in order to minimize human efforts and errors. This project extends the implementation of different image processing techniques to detect and extract insect pests by establishing an automated detection and extraction system for estimating pest in corn fields. An android mobile app is developed for the same. Experiment results show that the proposed system provides a simple, efficient and fast solution in detecting pests in the corn fields with the help of deep learning model Alexnet.</p>	

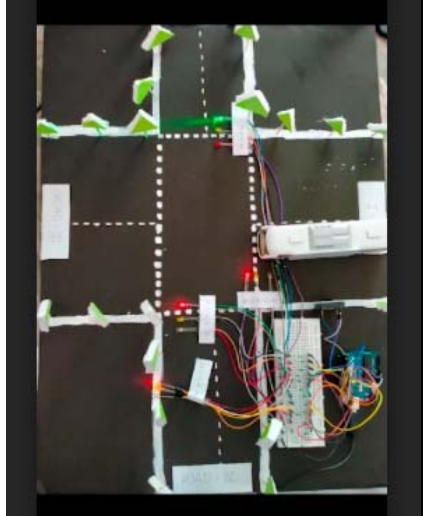
4.	188W1A0514 188W1A0503 188W1A0509 198W5A0502	Chennupati Janani Atluri Naga Sai Sri Vybhavi Bomminayuni Gireeshma Devarapu Vasundhara Mentor: Dr K Suvarana Vani	Social distancing violation system	Social distancing is a recommended solution by the World Health Organization (WHO) to minimize the spread of COVID-19 in public places. The majority of governments and national health authorities have set the 2-m physical distancing as a mandatory safety measure in shopping centers, schools, and other covered areas. The algorithm used is YOLOv3. It is one of the fastest real-time object detection Algorithms. It identifies high-risk zones with the highest possibility of virus spread and infection. This may help authorities to redesign the layout of a public place or to take precautionary actions to mitigate high-risk zones. The developed model is a generic and accurate for people detection and tracking solution that can be applied in many other fields such as autonomous vehicles, human action recognition.	<p>Output(for a random video):</p> 
5.	188W1A0545 188W1A0507 188W1A0551 188W1A0530	Rachamsetti Maheswari Bhoganadhuni Harsha Shanmukha Sainadh Gadde Kothakota Sai Teja Mentor: Dr Ch Rupa	Smart Power management model	Envision a day without electricity! Even a day in our life is hard to imagine without it. But are we concerned about it? Let's look into it. Many of us leave the mobile, laptop, or any other similar device for an excess amount of time to fully charge the device. But this results in loss of battery life and electricity wastage. In the long-term, it costs you even a considerable amount of money. Efficient Energy Management plays a vital role in the improvement of power consumption and power measurement. To fulfill this problem, we have developed an intelligent smart socket. The system uses the IoT Power Socket as a bridge to control the power outlet over the Internet. With the integration of Blynk cloud technology, the user can use the customized Blynk project to send commands to switch off or on the IoT Power socket. It also comes with a timer feature. With the availability of the timer feature, the device can allow the power at a specified time intervals set by the user at any point of a day. The user is also provided with the control to stop the power supply before the end time. The advantage of this model is that it allows the power supply to the device (Mobile / Laptop) up to a threshold value specified by the user.	



6.	188W1A0523 188W1A0512 188W1A0526 188W1A0501	Kakumani Venkata Sruthi Charitha Sree Chanamolu Kancharla Bhanu Sujitha Akunuri Sai Abhay Mentor: Dr G Krishna Kishore	MALNUTRITION	An application to track malnutrition in children	
7.	188W1A0549 188W1A0521 188W1A0508 188W1A0505	Shaik Ameer Baji Jonnadula Prasanna Bhukya Krupa Bai Bharath Ratlavat Mentor: Mr S Ravi Kishan	Smart Irrigation motor System	It is an IOT based system which can communicate to irrigation motor from mobile phone, display the status at the motor through surveillance and identify power-cuts/power-ups at the motor.	
8.	188W1A0522 188W1A0556	Kadiyala Pujitha Veeranki Amaleswara Rao	SMART OUTING SYSTEM USING	One of the factors which is paramount in a hostel community is security, especially for the girl students. The	


	188W1A0558 188W1A0541	Manchala Jahnavi Potluri Srihitha Chowdary Mentor: Dr G Anuradha	IMAGE PROCESSING	hostel community has to perform a lot of actions to ensure that the person who came to take the student out is not an intruder. Some of the existing methods are to keep the manual record of attendance in the hostel by the staff, Students carry the pass with them to show it at the entrance while leaving and entering the campus, The security guard verifies the photo of the parents which were already there and confirms that the person who came to pick up the student was not an outsider. The proposed system allows only authorized persons using image processing. The student's entry and exit to and from the campus is monitored using a database and generates a notification to the hostel authorities whenever an outsider tries to enter the campus. The proposed method will replace the manual out-pass with a digital code which is automatically generated.	
9.	188W1A0517 188W1A0529 188W1A0553 198W5A0505	Gajula Siva Sai Preethi Kommu Kavya Tammareddy Monish Polimetla Poul Mentor: Mr B Jaynag	Smart Farm Security System	This project is useful for farmers.to detect the Animals or humans enter into the form.	<p style="text-align: center;">Prototype</p> 
10.	188W1A0504 188W1A0540 188W1A0516 188W1A0518	Badri Deva Kumar Nikhil Chalasani Duvvuru Jahnavi Gopiseti Sridhar Mentor: Dr M Sobhana	IOT based Smart Plant monitoring system	IOT facilitates the authorization of things and device activities that are connected across the cloud network interface remotely. It has a very significant contribution towards revolutionary farming methods. This paper describes about an autonomous crop irrigation system. The ability to control and monitor irrigating plants that not only reduces the human intervention but also to sense and record the processing of the system status in real timemakes our system more unique and simplified than any existing system.	

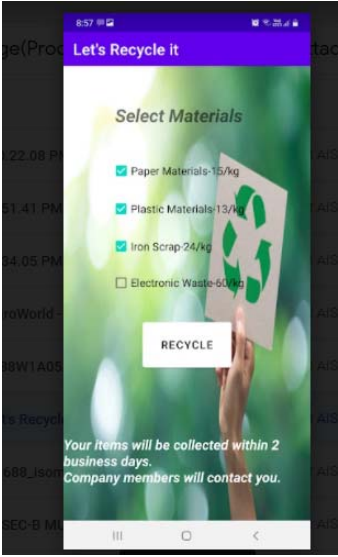

11.	188W1A0548 188W1A0515 188W1A0538 198W5A0504	Shaik Abdul Rasheed Faizan Devabhaktuni Mounika Miriyam Kondala Rao Pamarthi.Navya Sri Mentor: Dr K L Sailaja	NSS Application Design FOR VR Siddhartha Engineering College	<p>The National Service Scheme (NSS) is a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports. It provides opportunity to the student youth of 11th & 12th Class of schools at +2 Board level and student youth of Technical Institution, Graduate & Post Graduate at colleges and University level of India to take part in various government led community service activities & programmes. The sole aim of the NSS is to provide hands on experience to young students in delivering community service. By the information provided by the application freshers can understand the importance of NSS and enroll. This application will decrease the burden of maintaining NSS operations and we will know the status of a volunteer. So, more students will expose to NSS and provide services.</p>	 <p>The screenshot shows the mobile application interface for NSSVRSEC. At the top, there is a purple header with the text 'NSSVRSEC'. Below the header, there are two circular logos: one on the left with the text 'NATIONAL SERVICE SCHEME' and 'NOT ME BUT YOU', and one on the right with the text 'VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE'. The main content area has a white background with a purple navigation bar containing the text 'LOGIN', 'REGISTER', 'EVENTS DONE', and 'SERV REQ'. Below the navigation bar, there is a section titled 'ABOUT NSS' with the following text: 'The National Service Scheme (NSS) is a Central Sector Scheme of Government of India, Ministry of Youth Affairs and Sports. It provides opportunity to the student youth of 11th and 12th Class of schools at +2 Board level and student youth of Technical Institution, Graduate and Post Graduate at colleges and University level of India to take part in various government led community service activities and programmes. The sole aim of the NSS is to provide hands on experience to young students in delivering community service. Since inception of the NSS in the year 1966, the number of students strength increased from 40,000 to over 3.8 million up to the end of March 2018 students in various universities, colleges and institutions of higher learning have volunteered to take part in various community service programmes.'</p>
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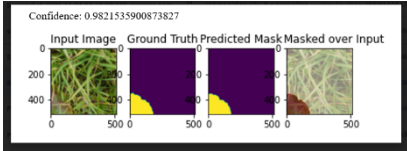
12.	188W1A0513 188W1A0547 188W1A0534 188W1A0531	Chennu Nandini Priyanka Seelam Venkata Durga Pratap Mannava Tarun Laggiseti Valli Saroja Mentor: Mr A Jitendra, Ch.Chitti Babu	Crop yield and price prediction	<p>Abstract:Chemical fertilizers include a lot of nitrogen and other nutrients. Plant development may be harmed if chemical fertilizer is used excessively. Plants and humans alike can be harmed by excessive concentrations or ingestion of nutrients and elements. Depending on the amount of fertilizer applied, the potential negative effects of fertilizer will be on Productivity or Quality. The majority of farmers apply fertilizers according to set sowing date, resulting in over or under application. Due to the ongoing demand for food, one can't neglect the fertilizer used for production. So, to reduce the negative impacts of fertilizer, adequate management and expertise are required. For healthy plant growth and development, yield, and soil nutrient balance, correct and balanced fertilization is critical. Both the crop and the farmer will profit from determining the required content and providing fertilizer dependent on the plant's standard requirements. For estimating Nitrogen, image processing is the most effective method. Because this procedure is non-destructive, it saves both money and time. In addition, the result can be obtained in a shorter period. Then, depending on the quantity of nitrogen that the plant appears to require, fertilizer can be applied, resulting in a healthy plant. The major goal of the initiative is to keep plants from getting too much nitrogen. Farmers can better control environmental implications, agricultural inputs, and time efficiency by monitoring nutrient levels, resulting in increased agricultural yield.</p> <p>sive concentrations or ingestion of nutrients and elements. Depending on the amount of fertilizer applied, the potential negative effects of fertilizer will be on Productivity or Quality. The majority of farmers apply fertilizers according to set sowing date, resulting in over or under application. Due to the ongoing demand for food, one can't neglect the fertilizer used for production. So, to reduce the negative impacts of fertilizer, adequate management and expertise are required. For healthy plant growth and development, yield, and soil nutrient balance, correct and balanced fertilization is critical. Both the crop and the farmer will profit from determining the required content and providing fertilizer dependent on the plant's standard requirements. For estimating Nitrogen, image processing is the most</p>	
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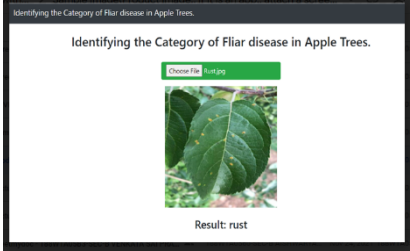
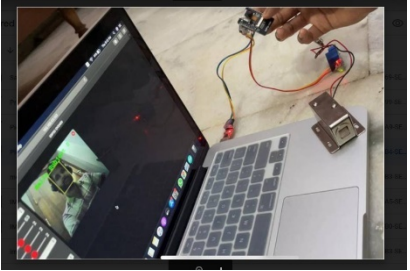
				<p>effective method. Because this procedure is non-destructive, it saves both money and time. In addition, the result can be obtained in a shorter period. Then, depending on the quantity of nitrogen that the plant appears to require, fertilizer can be applied, resulting in a healthy plant. The major goal of the initiative is to keep plants from getting too much nitrogen. Farmers can better control environmental implications, agricultural inputs, and time efficiency by monitoring nutrient levels, resulting in increased agricultural yield.</p>	
13.	<p>188W1A0542 188W1A0555 188W1A0506 188W1A0520</p>	<p>Pragathi Tummala Veeramachaneni Narasimha Bhavishya Puttagunta Guttikonda Harsha Sri</p> <p>Mentor: Mr VVNV Phani Kumar</p>	<p>Smart traffic signal for emergency vehicles.</p>	<p>Traffic Monitoring and Management is one of the most difficult challenges being faced by many metro cities these days. In this project we will implement a method to dynamically schedule the traffic signals so as to dissolve the traffic jams and allow easy movement of emergency vehicles on the road. Existing ideas include controlling a traffic light using timers for each lane, employing electronic sensors for detecting vehicles. Another way is with the help of traffic police, when he notices the ambulance. In this project we will use An Arduino UNO Microcontroller, RFID reader module and RFID tag. RFID reader detects RFID tag in its proximity and updates the Arduino with the RFID tag number. The RFID tag comes along with a coil and a chip inside it. When this ID comes in good proximity to the reader, electricity is induced in the coil by the method of electromagnetic induction which powers up the chip. With the help of RFID tag the ambulance when required to pass through signals the signal becomes green by keeping all other signals at the junction red. This helps to pass the ambulance without waiting for green signal in thickly populated areas / traffic areas.</p>	

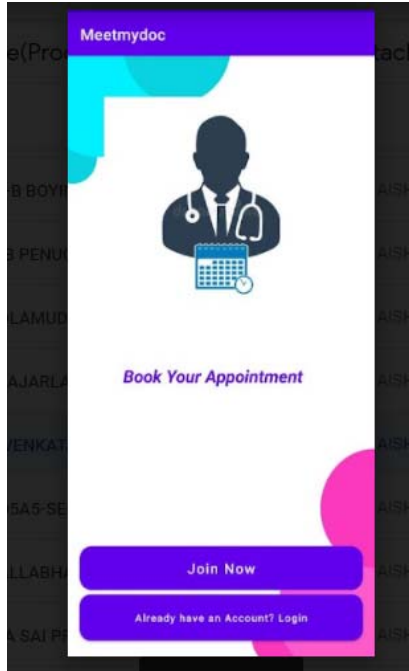
14.	188W1A0502 188W1A0524 188W1A0552 188W1A0525	Arvapalli Surya Teja Kalla Hemanth Kumar Sri Phani Charan Tatineni Kanagala Prathyusha Mentor: Mr D Suresh Babu K Kiran	U.V Automobile Sanitization	There is a need for UV based sanitization in automobiles. In these pandemic automobiles are currently sanitized with alcohol-based sanitization. For automobiles conventional methods for sanitisation can't be used. Both vapour-based sanitization and alcohol-based sanitization are dangerous to use in automobiles. The main component of the alcohol sanitizer is ethanol. Ethanol is highly flammable in nature. There is a requirement for alternative method. The best method to kill the microorganisms in effective way is with the use of Ultraviolet light. UV-C is known for disinfection as it kills viruses, bacteria and other microorganisms. UVC have a wavelength of 200-280nm. This Energy is found naturally in sunlight. It is produced in strong intensity with the help of high intensity lamp. In this project an IOT device which uses UV-C light is used to produce UV light and motion detector is used to detect any motion near the light and immediately switching the light off in case of any motion. Thus, preventing any person contact with UV light. This helps to minimize the fire accidents caused by alcohol-based sanitization in automobiles.	
15.	188W1A0533 188W1A0511 188W1A0528 188W1A0527 188W1A0559	Manam Pavan Sai Chalasanani Roshini Kolli Sudheer Katikala Lakshmisri Kondapalli Venkata Hema Sai Mentor: Mr N Sunny	iot based automatic saline monitoring system using ultrasonic sensor	An IOT based saline monitoring system that measures saline quantity frequently and sends the data to observer through cloud.	


16.	<p>188W1A0535 188W1A0546 198W5A0501 188W1A0539 188W1A0557</p>	<p>Marreddy Rashmitha Rayidi Jagadeesh Babu Byraboyina Sumathi Mundru Samuel Mories Vemuri Sravani</p> <p>Mentor: Mrs Ch. Raga Madhuri</p>	<p>Faculty availability prediction</p>	<p>An old age home is a facility or home for elderly individuals who do not have family to care for them. It's like a home for the elderly, with all the necessities such as a place to live, food, and clothing. The organisers of the house were in charge of these people's fundamental needs. organizers gather items from donors or, in some cases, hunt for donations to meet the needs for elders. This project is a website that will make collecting donations for an elderly age home easy for organisers. Money, food, clothing, and other items are routinely donated to nursing homes. People would be able to distinguish and donate these products independently using this website. In the majority of situations, elders utilize pharmaceuticals on a regular basis; this website also includes information about the medications used by residents of old age homes.</p>	
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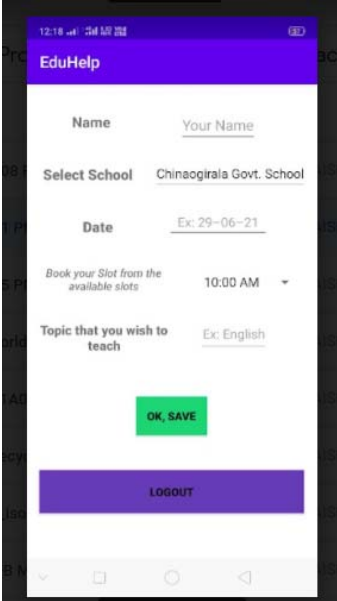
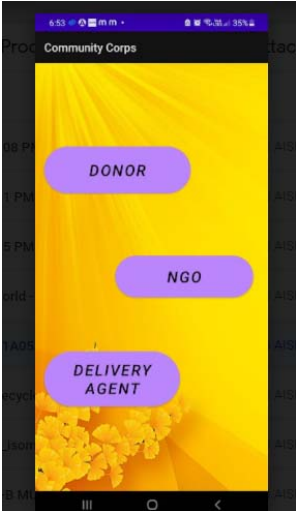
17.	188W1A05A0 188W1A05A3 188W1A0590 188W1A05A8	<p>Ponugumati Akshitha Ramiseti Tej Pratap Lanka Pavani Venkata Satya Mahathi Triparnapalli Anvitha</p> <p>Mentor: Dr D Rajeswara Rao</p>	E-Recycling System using Mobile Application Development	<p>One of the challenging issues that our country facing today is not able to effectively recycle the waste being produced. Due to present covid-19 situations, the use of single used materials increased rapidly, which is ending up in landfills without recycling. On an average, India generates 62 million tons of waste every year, which further more increased due to current pandemic situation. The 77% of waste is disposed of in open dumps, 18% is composted and just 5% is recycled. The reasons for this include lack of awareness among people and lack of proper infrastructure to recycle items like paper, plastic, metal, and e-waste. This can be reduced to an extent by creating a mobile application which provides a interface for users to sell their household waste to the recycling companies on weekly, monthly or yearly basis based on the amount of waste they produce. The recycling companies buy the items from the users and recycle them.</p>	
18.	188W1A05A5 188W1A0567 188W1A05B6 198W5A0512	<p>Sree Soumya Dupaguntla Battu Preethi Seelamneni Sri Harsha Malleboina Monika</p> <p>Mentor: Dr K Srinivas</p>	TAX ALERT SYSTEM	<p>In general, the tax payment notices are circulated physically to the tax payers of the municipalities. These notices contain the details of the tax payers along with the tax amount to be paid to the municipality and due date. Sometimes, there is chance of negligence and misplacement of the notices by the tax payers which delays their payment. After hearing this problem addressed by the municipality officers, decision was made to develop a mobile application for sending municipal tax alerts. The main objective of the EPICS PROJECT- MUNICIPAL TAXALERT SYSTEM is to automate the process of tax notice distribution where a custom SMS template is pre-designed and the officers add details. With one click SMS will be sent to all the tax payers with their respective details. We design a mobile application TAX NOTIFIER using Android Studio, which sends the alerts to the users regarding the payment of the tax. The mobile app contains the database which stores information regarding the public such as their name, contact number, due date and the amount to be paid as the tax to the government. This App contains a menu selection page which shows the type of taxes as the options such as</p>	

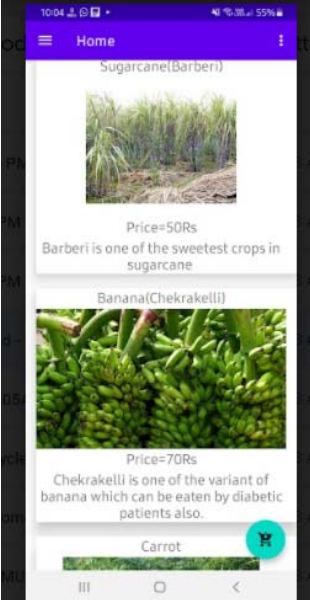
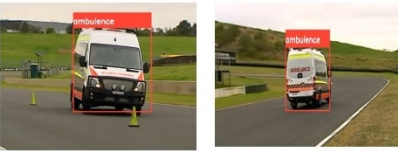
				<p>Agriculture/Professional Tax, Water Tax and Property Tax. Selection of option navigates to the corresponding pages where a user can be registered and sent SMS alerts regarding the payment of their tax dues. This is a hassle-free process for municipal officers because they no longer need to print the notices and issue them to tax payers.</p>	
19.	<p>188W1A0569 188W1A0584 188W1A0591 188W1A0592</p>	<p>Boyina Lohitha Karaka Gnana Sandhya Likhita Chowdary Koneru Machavarapu Venkata Koushik</p> <p>Mentor: Dr S Vasavi</p>	<p>Weed detection using CNN</p>	<p>Even though chemicals are effective in controlling weeds they have harmful effects on the soil due to the chemical combinations contained. A weed reduces the crop yield by competing for water, nutrients and light. Being hardy and vigorous in growth habit, they grow faster than crops and consume large amount of water and nutrients, thus causing heavy losses in yields. This lowers the crop yield. Weeds can be removed by the use of herbicides, site specific weed management is effective in lowering herbicide costs, optimizing weed control and preventing unnecessary environmental contaminations. Many control methods like mechanical method, cropping and cultural methods, and biological methods are available to control weeds each having its own disadvantages as well. Efficient use of chemical herbicides can inhibit the growth of weeds but for that we need the location of weeds. Machine learning algorithms are still facing automatic detection challenge. Thus, an automated process is required to detect the weeds from crops. This can be achieved by detecting weeds from crops using Image processing. So, we have proposed a deep learning-based model to detect the presence of weeds from crops in a crop field taking image as an input through image processing.</p>	

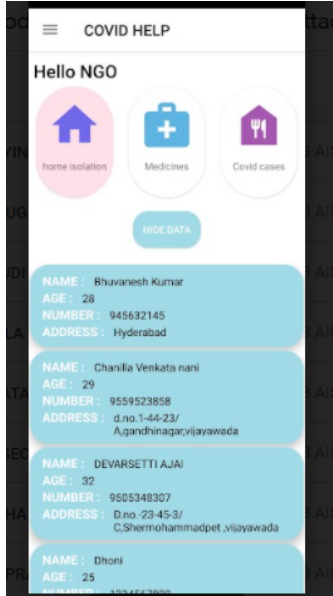
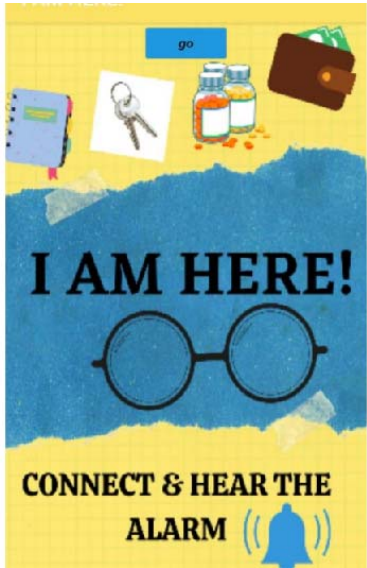
20.	188W1A0599 188W1A0589 188W1A05B1 188W1A0561	<p>Penugonda Alekhya Kote Immanuel Paul Vasireddy Tejaswi Alamuri Sai Saranya</p> <p>Mentor: Dr K Suvarna Vani</p>	Identifying The Category Of Foliar Diseases in Apple Trees	<p>Apples are one of the most important temperate fruit crops in the world. Foliar (leaf) diseases pose a major threat to the overall productivity and quality of apple orchards. The current process for disease diagnosis in apple orchards is based on manual scouting by humans, which is time-consuming and expensive. Although computer vision-based and deep learning models have shown promise for plant disease identification, there are some limitations that need to be addressed. Large variations in visual symptoms of a single disease across different apple cultivars, or new varieties that originated under cultivation, are major challenges for computer vision-based disease identification. These variations arise from differences in natural and image capturing environments, for example, leaf color and leaf morphology, the age of infected tissues, non-uniform image background, and different light illumination during imaging etc. We are developing a model that is having different layers like convolution, pooling, fully connected(dense layer) that can overcome these problems and provides output with good accuracy and better efficiency so that it can be used in real time by the farmers.</p>	
21.	188W1A05B4 188W1A0568 188W1A0598 188W1A0577	<p>Yarajarla Lakshmi Venkata Naga Sree Bobba Dharmika Neela Vineela Gogineni Nithin Teja</p> <p>Mentor: Dr Ch Rupa</p>	Smart door unlock system using face recognition.	<p>In today's era of automation and smart devices, there is crucial need to alter the security measures of system as privacy and security are notable issues in the information system. It is difficult to trust blindly on traditional and simple security measures of the system. In traditional system many of the doors are having mechanical lock, which were restricted on the number of keys. Our project Smart Door Unlock System based on Face Recognition is used to enhance the security. In this system camera sensor is used to capture the face and image matching algorithm will be used to detect the authenticated faces. Only the person whose face is matched can be able to unlock the door. So, limitation of managing keys will be resolved. The security system is also made by means of maintaining into the eye of old age humans for whom it is hard to open the door manually. This system will not only enhance the security but also make the system keyless.</p>	

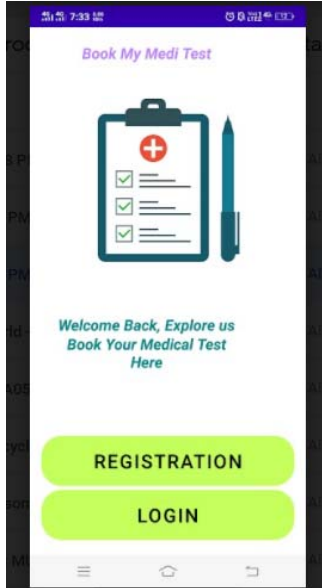
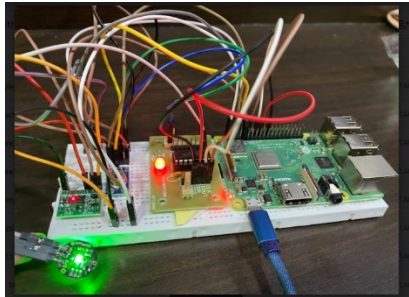
22.	188W1A05B3 188W1A0594 188W1A05A2 188W1A0585	Venkata Sai Prakash Ganjala Meeniga Sri Hari Raavi Venkata Naganjani Katta Kanishka Mentor: Dr G Krishna Kishore	MeetMyDoc	<p>In general, consultation among doctor and patient is done by the patient who visits to the doctor. As it is a FCFS Basis (FIRST COME FIRST SERVE) until unless it is a case of an emergency one who doesn't know which slot he may receive visits the Hospital and waits there until he was called for, which consumes time and it becomes worse if we have no Physical health and strength to sit and wait there. Also, during this Covid Pandemic there may be also many people who visits the Hospital with symptoms that are common for covid and general fever and we have to wait along with them if the hospital doesn't have enough space to accommodate the waiting people "SOCIAL DISTANCING" is the one major Rule that is Violated (as they can't go back to their Home, which may be so far) which does even more damage not only to you, your Family but to people around you. Some may think (social distancing or if he is a fragile Patient) of this issue and may visit the next best Hospital in their Locality, if the same continues he visits another and this continues which not only waste your time but the Health condition of the Patient may deteriorate. So we develop a Mobile App where , we can see multiple hospitals and available slot Numbers and ongoing treatment slot number and Doctor availability so that we can decide which hospital to choose and book our slot number and wait and rest at home till the time we can estimate that our slot may be called just by looking at "Ongoing Consulting Slot" and visit the Hospital at the right time.</p>	
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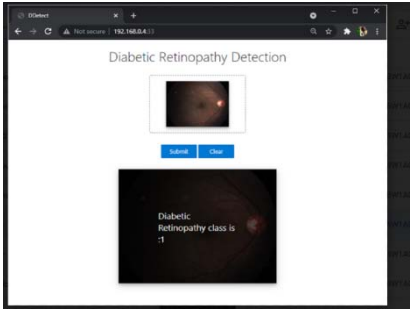

23.	188W1A05A7 188W1A0588 188W1A0593 178W1A05A3	<p>Tankasala Yamini Kode Sai Deeksha Medikonda Sandeep Polavarapu Durgesh</p> <p>Mentor: Dr G Anuradha</p>	plant disease detection	<p>Agriculture is a key source of livelihood. Agriculture provides employment opportunities for village people on large scale in developing country like India. India's agriculture is composed of many crops and according to survey nearly 70% population depends on agriculture. Most of Indian farmers are adopting manual cultivation due to lagging of technical knowledge. Farmers are unaware of what kind of crops that grows well on their land. Identification of the plant diseases is the key to prevent the losses in the yield and quantity of the agricultural product. The studies of the plant diseases mean the studies of visually observable patterns seen on the plant. Health monitoring and disease detection on plant is very critical for sustainable agriculture. It is very difficult to monitor the plant diseases manually. It requires tremendous amount of work, expertise in the plant diseases, and also require the excessive processing time. Hence, Convolutional Neural Networks (CNN) are used for the detection of plant diseases by capturing the images of the leaves and comparing it with the data sets. The data set consist of different plant in the image format. This android/web app can be efficiently used for detecting diseases.</p>	
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<p>24.</p>	<p>188W1A0560 188W1A0574 188W1A0597 188W1A0583</p>	<p>Aishwarya Chengalvala Divya Sai Asanvitha Gunadala Nallamothu Lakshmi Hemanth Kadiyala Sethu Sandeep Chowdary</p> <p>Mentor: Dr G Kranti Kumar</p>	<p>Mobile Application for Rural Education</p>	<p>Sharing knowledge has always been a complicated task from long ago but the emergence of smartphones has made the task easier and more flexible. There are still many places that don't move with time and hence people can only learn limited knowledge with the limited workforce. Many educated people have come forward in improving these areas through various means such as NGOs, student volunteers, etc. But there is no proper mode of communication between school management and the people who are interested in helping them. A mobile app is one possible solution to this problem. It connects schools, students, and student volunteers, making the communication between them simpler. Many features like slot booking, nearest school location details, chatting service, etc. are possible to incorporate inside the mobile app. This can be implemented by using Java programming language, Android Studio, and Firebase which is used to develop mobile applications. The final result is making these educational places have an efficient workforce, introducing newer ways to learn and education for everyone.</p>	
<p>25.</p>	<p>188W1A05A1 188W1A0570 198W5A0514 198W5A0510</p>	<p>Pothana Hema Chintada Roop Kumar Y.Vineetha Bhavana Gampa</p> <p>Mentor: Mr S Rajesh</p>	<p>NGO-Donar Connecting system</p>	<p>Currently, this Covid-19 pandemic situation has been tough for most but could be a very difficult situation for those who survive on daily wages, the homeless. Many people are providing monetary contributions to this cause by donating money to the PM, CM, and NGOs fund. However, there is a scope of distribution of food kits (both ration & cooked food) and care kits (basic sanitation), medication, books, clothes, etc... An important goal in our world today is to eliminate food waste by re-utilizing available food sources within local communities: leftover food items in restaurants, stores, food distribution centres and our houses. In this project, we concentrate on connecting these donors and organizations, who distribute those things for the needy through an android application.</p>	

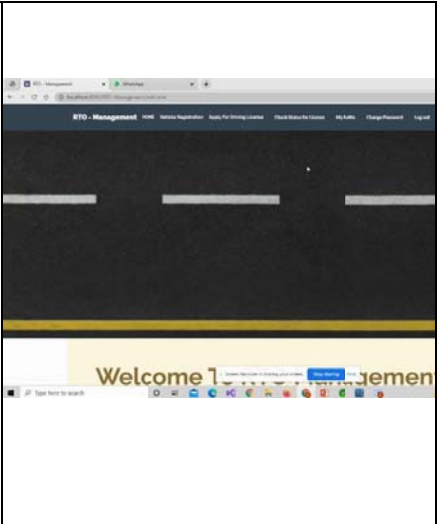
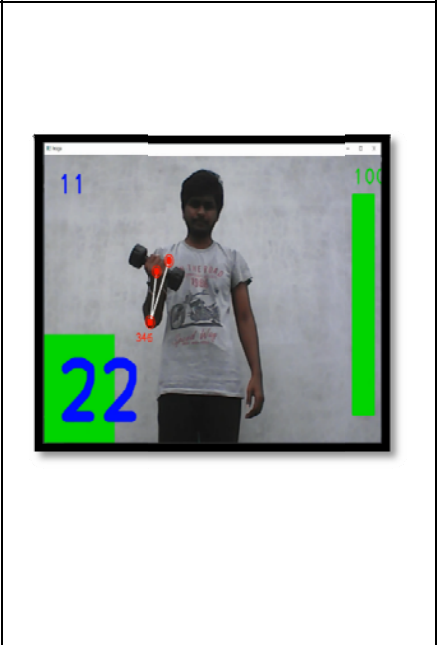
26.	188W1A0576 188W1A0565 188W1A0572 188W1A0587	Giddaluri Bhanu Sekhar Arunarkavalli Darbha Chunduri Bhavana Kilaru Maheswar Mentor: Mr JVD Prasad	Agro World, A smart help for farmers	<p>In our day-to-day life we consume food and our survival is predicated on mainly food. A considerable amount of our food is coming from farms and other means too. These farmers do their hard work for growing and serving many lives across the country, which pays for their source of income. But thanks to intermediates within the selling of their final products the farmers are unable to form their profit and mostly live poor. This will end in a big decrease within the prices of the products currently available within the market also because the profit will directly reach to the farmer's pocket. Recently, communication through mobile phones is considered very important in enhancing farmers, access to better understand agricultural market situations. By this project we will be able to connect farmers directly to the customer so that direct dealing of products can be accomplished through a mobile application</p>	
27.	188W1A05B5 188W1A0586 188W1A0582 198W5A0513	Yarraguntla Vedavyas Kesari Jithendra Reddy Kadambala Pavan Vangapalli Surendhra Mentor: Mr ARV Pratap	Emergency vehicle alert system	<p>The emergency vehicles are stuck in the traffic our idea is to create a model that will help in detecting an emergency vehicle at the main junctions so that the traffic can be cleared. We are trying to build a model that takes the image or a video stream and detects emergency vehicles. The model is built with the help of tensor flow, open cv, NumPy, pandas... Etc. The model will be trained with the help of the data set which is built for this project and helps in training the model. This project can be further extended by creating a notification system for the respected authorities.</p>	

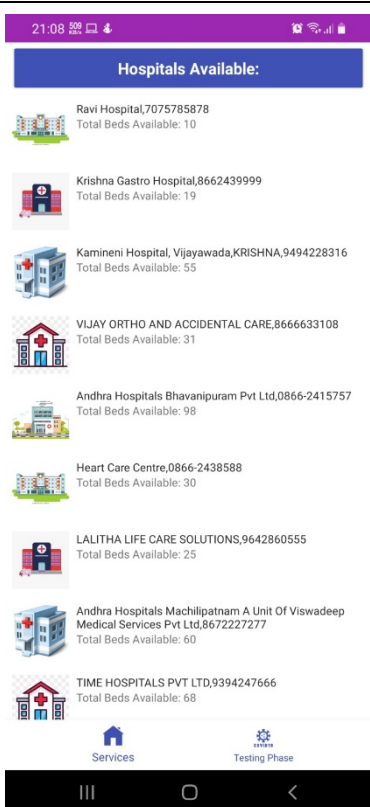
28.	188W1A0578 188W1A0573 188W1A0579 198W5A0511	<p>Gopisetty Venkata Dhruva Kumar Darelli Rahul Itta Harshitha Maguluri.Bhargav Chowdary</p> <p>Mentor: Mr S Babu</p>	COVID 19 SAHAYA APP	<p>The COVID-19 pandemic has led to a dramatic loss of human life worldwide and presents an unprecedented challenge to public health. In order to overcome this challenge effected patients with mild symptoms, prefer to recover under home quarantine. effected patient can be recovered if he/she is provided with proper medication & nutritious food at regular time intervals. But this becomes a herculean-task i.e., if the patient is alone at home, in order to do the regular works patient needs to step-out of his house in situations like for buying food items or to get medicines from a medical store whereby this could also lead to the spread of virus to other people too.</p> <p>We propose a method which provides a quick way to help these needy ones. This is achieved by developing an android application that provides the details of the needy patients(in that respective area) to the social workers, NGO's & sponsors so that they can step-forward to help them by providing the services such as providing food & medicines required. This application makes use of firebase for the storage of patient data.</p>	
29.	188W1A0596 188W1A05A4 188W1A05A6 188W1A0580 188W1A0562	<p>Mukkamala Namitha Routhu Ramya Dedeepya Suma Anusha Mulugu Jasthi Siva Sai Angidi Lakshmi</p> <p>Mentor: Mr Ch Mukesh</p>	item locator	<p>The tendency to forget or misplace things is usually high with the increase of age, and hence it is difficult for old people to find lost or misplaced items without depending on others. And also in our day-to-day routine, we might have come across many situations where we misplace the objects such as key chains, spectacles, wallets, and other important objects which we require regularly. Hence, our project Item Locator can be used to find the approximate location of our required object. This project is about the identification of misplaced or lost objects. It mainly uses the iTag which is attached to the objects that are frequently misplaced. These iTags are identified with the help of a mobile application which is named "I AM HERE". This application is implemented in the Kodular platform, which is an open-source tool. The iTag and app are connected with the help of Bluetooth technology. When the application is run and Bluetooth is enabled, all the iTags list will be displayed on the mobile screen. To identify a particular object, the appropriate iTag must be selected from the list of tags available, so that the iTag which is attached to the misplaced object will produce a Beep sound enabling the user to</p>	

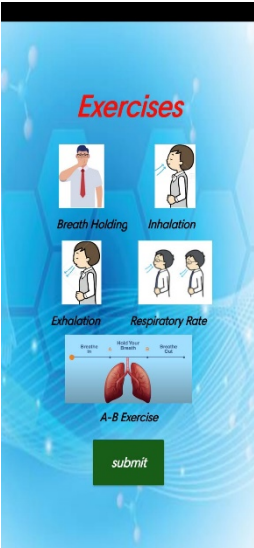
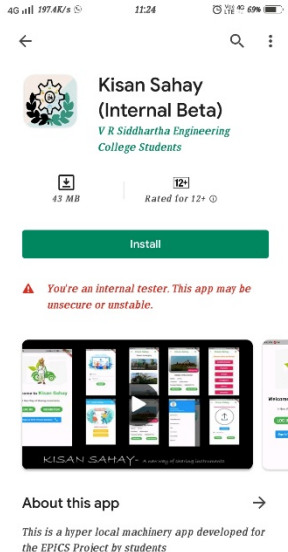
				locate the Object.	
30.	188W1A0571 188W1A0564 188W1A0575 198W5A0508	Choday Siva Vasanth Araveeti Venkata Sai Srujan Dumalrao Kamal Surya Teja Daamerla. Haritha Mentor: Mrs S Rajeswari	Book My Medi-Test	Social distancing and quarantine are now standard practices which are implemented worldwide since the outbreak of the novel coronavirus (COVID-19) disease in 2019. In general, testing and diagnosis is done at a testing laboratory. Many of the people come at once to the laboratory for their testing to be done. In order to minimize the traffic at the testing center we will be introducing a mobile application, here patients get an option to register and login using registered details. Once registered with their address and contact details, the patients may now see a variety of tests conducted by the lab along with their costs. The system allows patients to do the bookings for various tests and after registering the slot successfully the patient test is booked. Then the patient may visit the testing center at that booked slot and can undergo their testing. If the patient wants the test to be done at home the employees will come to their home at a particular time specified in the application.	
31.	188W1A05B0 188W1A0581 188W1A05B7 198W5A0509	Vallabhaneni Raga Sindhuja Javvaji Srinivasulu M Sai Subhash Emmanuel Mentor: Mr MM Meera Durga	Covid support system	A Covid Support System (CSS) is proposed for monitoring patient's health status and to provide the prescription remotely. Besides the doctor can also analyze and diagnose from the data collected from the user using IOT. A web-based application is implemented for efficient data analysis. With the proposed system patients can be remotely monitored from their homes and doctor can suggest prescription.	

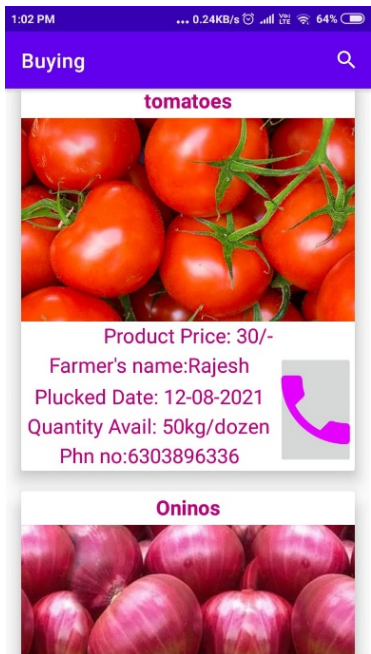

32.	188W1A05A9 188W1A05B2 188W1A0566 188W1A0595 188W1A0563	Vadlamudi Geethika Vemuru Naveena Asmi Firdaus Mekalla Vamsi Krishna Aramandla Kiran Mentor: S Necharika	Diabetic Retinopathy Detection	Diabetic retinopathy is the major cause of blindness in the working-age population of the developed world. From an epidemiology study it is found that one in three persons having diabetes has sign of diabetic retinopathy. In Today's world, disease diagnosis plays a vital role in the area of medical imaging. Better view is obtained to detect the disease by using machine learning in medical imaging. In this work the focus will be on detection of Diabetic retinopathy using machine learning. Diabetic retinopathy could be detected much faster and more accurately by using ML in medical imaging. In this work, different ML technologies, algorithms and models will be analysed to diagnose diabetic retinopathy in an efficient manner to support the health care system. Convolution neural network (CNN) is used for training the model.	
33.	188W1A05E3 188W1A05C1 188W1A05D5 188W1A05F9	Kommuri Mohana Lakshmi Durga Arakala Bhavani Eli Amruthatulasi Sai Anila Kottamasu Mentor: Dr D Rajeswara Rao	Celero-Covid Hospital Management App	This app gives information about the availability of different types of beds such as ventilator beds, oxygen beds, and general beds.	

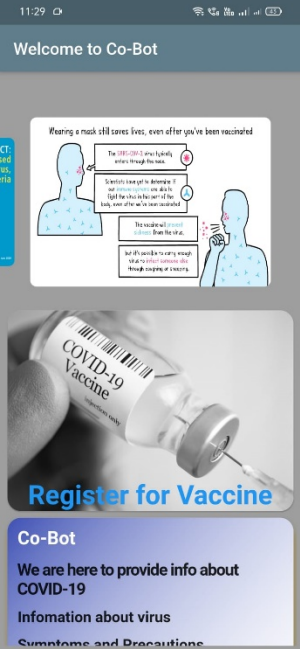
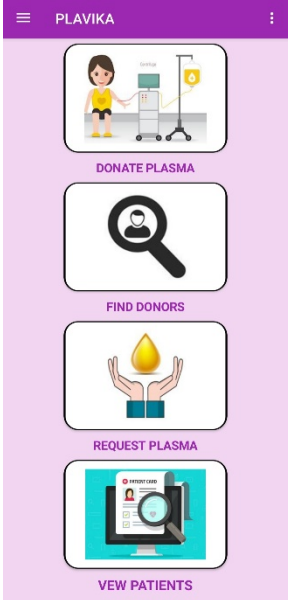
34.	188W1A05D2 188W1A05H1 188W1A05E9 188W1A05E6	<p>Dodla Navya Shree Veerla Charani Sri Medepalli Kalyan Maganti Sai Sathya</p> <p>Mentor: Dr K Srinivas</p>	<p>VIDYUTH SAMRAKSH – Energy Consumption Alert System</p>	<p>Now-a-days lot of people are losing Government Grants like Ammavadi, Ration Card, Pension, etc. According to these schemes, if the total power consumption of the house exceeds particular units per month, then the applicant for the scheme will fail to receive the benefits from them. The main problem behind this is, people are unaware of the cost of energy that is being consumed by various appliances, which is resulting in higher energy consumption, and higher electricity bills. In present existing system the main drawback is, a person has to go area by area and take the readings from the energy meter in every house and generate the bill. It is often for errors like extra bill amount, late billing, and notifications from Electricity Department even though the bills are paid. Apart from that people will get to know their usage only after the person comes and takes the reading from the energy meter.</p>	
35.	188W1A05D9 188W1A05D8 188W1A05D4 188W1A05H6	<p>Hafeeza Samreen Gulla Venkata Nikhil Duddugunta Bhargav Reddy Tugu Bhanu Prakash</p> <p>Mentor: Dr S Vasavi</p>	<p>Weather Forecast through an APP for the next N days</p>	<p>Weather forecasting is the application of technology to predict the state of the atmosphere for a given location. This application will be used to predict the weather and can also be used by the users who have no prior knowledge on calculating weather based on degrees in form of logo which can be understood by anyone. The main motive is to provide an effective routine for the user, by predicting the weather condition. Andhra Pradesh State Disaster Management Authority (APSDMA) wants to provide this service over a smartphone application. This Mobile App predicts the weather for the next N days taking the particular location as input and displays the forecast information, aids the general public from sudden change in the weather conditions. Prediction is done using Sliding Window Algorithm.</p>	


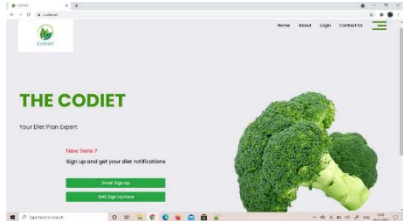
36.	188W1A05C7 188W1A05E1 188W1A05E7 188W1A05H4	Chalasanani Anusha Kalluru Pradeep Meda Lakshmi Hima Bindu Yellepeddi Sai Balaji Srikar Mentor: Dr K Suvarna Vani	Web Application for RTO Management System	An enhanced E-RTO Management System is developed. we provide one type of environment which gives a user-friendly means user can access and understand well. Administrator has the power to verify the data entered by the user, processing of data and provide appropriate solutions. Any person who can be authorized by the administrator. User is the person who gets the full benefits of this application. With the increasing importance of corruption has become a major factor to be considered as a result the number of vehicles and rapid development of population are growing in our everyday life. Now a day's population has become a major factor to be considered as a result the number vehicles are growing with increasing problems of vehicle registration management, license registration, emission, insurance etc. for RTO departments and to handle user and vehicle document verification by traffic police officers.	
37.	188W1A05D6 188W1A05F8 188W1A05H3 198W5A0518	Gadamsetty Samhitha Regalla Jaswanthi Yella Ekshitha Darsi Srinivasa Rao Mentor: Dr Ch Rupa	VYAYAM -Artificial Intelligence based Bicep Curl Workout Tracking System	Fitness is a trend today in present situation it is not possible to hire a fitness trainer or to go for a gym. So, we came up with an AI Model Which uses Human pose Estimation. Human pose estimation is a popular solution that AI has to offer, it is used to determine the position and orientation of the human body where person live video is taken. When a patient uses our model, the camera captures the moments during exercise and records the video. Now, the human pose estimation model detects key points on users' body and forms a virtual "skeleton" in 2D or 3D dimensions. The patient needs to exercise up to measured limit indicated by a meter beside the person video. The user also receives the description of mistakes made and recommendations on how to correct them. We use OpenCV for implementing human pose estimation. We will use the pose estimation running on the CPU to find the correct points and using these points we will get the desired angles. Then based on these angles we find many gestures including the number of biceps curls. We will write the code in a way that you will be able to find angles between any 3 points.	

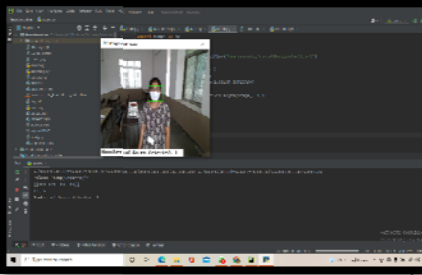
38.	188W1A05D1 188W1A05H5 188W1A05F4 188W1A05G9	Dodda Venkata Lohitha Krishna Chandana Gayathri Priya Darshini Parasa Dhoondi Naga Harsha Sai Vallabhaneni Sai Pavan Mentor: Mr S Ravi Kishan	Tetra Assist	<p>Mobile Application “Tetra-Assist” which is a Software Application System, which helps the patients to decide whether he/she needs hospital bed, and this application also helps the hospital management system to provide better health facility to the patients. Otherwise, the beds are being misused by the patients with mild symptoms. This will increase the need for beds and will pose a problem. So, this application will help in not providing the beds to patients with fear of covid but not yet affected or patients with mild symptoms. This application collects the details about the patients’ health condition and suggests whether he/she requires the bed or not. This data can also be passed to the NGO or covid-care centre so that they can prepare before head to provide better healthcare facilities. This application helps to improve the possibility of getting beds for the emergency patients by eliminating the chance of patients with mild-normal severity occupying the beds in the hospital.</p>	 <p>The screenshot shows a mobile application interface with a purple header displaying the time 21:08 and various status icons. Below the header is a blue bar with the text "Hospitals Available:". The main content area lists several hospitals with their names, phone numbers, and the number of total beds available. At the bottom, there are two navigation icons: "Services" and "Testing Phase".</p> <table border="1"> <thead> <tr> <th>Hospital Name</th> <th>Total Beds Available</th> </tr> </thead> <tbody> <tr> <td>Ravi Hospital,7075785878</td> <td>10</td> </tr> <tr> <td>Krishna Gastro Hospital,8662439999</td> <td>19</td> </tr> <tr> <td>Kamineni Hospital, Vijayawada,KRISHNA,9494228316</td> <td>55</td> </tr> <tr> <td>VIJAY ORTHO AND ACCIDENTAL CARE,8666633108</td> <td>31</td> </tr> <tr> <td>Andhra Hospitals Bhavanipuram Pvt Ltd,0866-2415757</td> <td>98</td> </tr> <tr> <td>Heart Care Centre,0866-2438588</td> <td>30</td> </tr> <tr> <td>LALITHA LIFE CARE SOLUTIONS,9642860555</td> <td>25</td> </tr> <tr> <td>Andhra Hospitals Machilipatnam A Unit Of Viswadeep Medical Services Pvt Ltd,8672227277</td> <td>60</td> </tr> <tr> <td>TIME HOSPITALS PVT LTD,9394247666</td> <td>68</td> </tr> </tbody> </table>	Hospital Name	Total Beds Available	Ravi Hospital,7075785878	10	Krishna Gastro Hospital,8662439999	19	Kamineni Hospital, Vijayawada,KRISHNA,9494228316	55	VIJAY ORTHO AND ACCIDENTAL CARE,8666633108	31	Andhra Hospitals Bhavanipuram Pvt Ltd,0866-2415757	98	Heart Care Centre,0866-2438588	30	LALITHA LIFE CARE SOLUTIONS,9642860555	25	Andhra Hospitals Machilipatnam A Unit Of Viswadeep Medical Services Pvt Ltd,8672227277	60	TIME HOSPITALS PVT LTD,9394247666	68
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39.	188W1A05G2 188W1A05C6 188W1A05H2 188W1A05C3	Shaik Ayesha Fathima Butti Bhavana Vemareddy Venkata Sai Kiran Bhukya Rishi Ram Naik Mentor: Dr P Ramesh Kumar	LUCAST - Lungs Capacity Smart Test	The main aim is to develop an app which will help the user to determine lungs functioning at home itself based on the breathing exercises present in the app.	
40.	188W1A05C0 188W1A05C8 188W1A05C2 188W1A05C4	Ampapurapu Mounika Durga Chandragiri Sandeep Bala Bhavagna Tummala Bogineni Lasya Priya Mentor: Dr K Praveen Kumar	Kisan sahay	Sharing machinery among small farmers	

41.	188W1A05G3 188W1A05G6 188W1A05D7 198W5A0516	Shaik Noorjahan Talluri Sasank Dattu Gonnabhaktula Leela Madhuri Akunuri Mounika Mentor: Mr U Prabhu	FRESH VEGGIES – Android Application for marketing of fruits and vegetables	In many villages, there is a practice called "Rythu Bazar". In which farmers sell their vegetables and fruits to the vendors in "Rythu Bazar", which they cultivate, for less margin. At the same time, farmers buy vegetables and fruits which they won't cultivate for higher prices. In recent times, due to covid outbreak, many small scales farmers facing lots of problems to sell their products. There has been concern in recent years regarding the efficiency of marketing of fruits and vegetables, and that this is leading to high and fluctuating consumer prices and only a small share of the consumer rupee reaching the farmers. We came up with a solution. As technology emerges, every one using smartphones now-a-days. By taking this as an advantage we want develop a mobile application which acts as a mediator for farmers interaction to sell and buy vegetables among themselves so that they will get mutual benefits. This is applicable for not only farmers but also others in the village.	
42.	188W1A05F7 188W1A05G0 198W5A0515 188W1A05E4	Rachana Koniki Sangoju Manikanta Kumar Abdul Sameerunnisa Korra Chandana Bai Mentor: Mrs.M.V.Pujitha	MACVACCINO - The status of covid- 19 vaccinations in a village	Our aim is to identify people who are eligible for vaccinations. To find the status of how many people completed their vaccinations. After a person has taken the first dose, to inform people about their second dose. In order to improve the mental health of people, we allow people to share their experience by posting their recovery stories and it would give a positive influence on people. We also post what are the precautions that one should follow before and after their vaccinations.	

43.	188W1A05E5 188W1A05G4 188W1A05H7 198W5A0520	Lakkireddy Arundhathi Shaik Tajuddin Kodali Rajani Karedla Lalitha Ram Mentor: Dr G Arun Kumar	Co-Bot	Co-Bot is a covid chatbot that helps people by providing the reliable information regarding the covid virus by taking WHO as the source. ⁷⁸	
44.	188W1A05F5 188W1A05E2 188W1A05G8 198W5A0519	Polukonda Jyotsna Kommineni Sai Kumar Tummala Teja Sri Diveli Jacob Raj Mentor: J Ranga Rao	Plavika	Our Application is an online Plasma Donation system that helps in finding suitable plasma for the Patients in need. Our App consists of details of the Plasma Donors available in Particular locations along with associated details. These details include Name of the Donor, blood type, age of the Donor, Weight of the Donor, city of the donor, Contact details of the Donor and their medical history. These details help in finding the Donors for the patients in need. 'PLAVIKA' allows patients to check whether required plasma donors of a particular group are available or not in their desired location and in case there is no donor available for the requested type, the information will be posted on the App so that it notifies the users using the App about the requirement of Plasma. The registered user can act as a Donor or Acceptor according to their need. We developed this using Kodular which is flexible and easy to use software for developing mobile application. Airtable database is used to the details of all the donors and patients available.	

45.	188W1A05G1 188W1A05G7 188W1A05D0 188W1A05F1	Saripalli Krishnaveni Tulimilli Likhita Dhaanya Sai Garapati Mudu Shyam Naik Mentor: Mr M Srilatha	Medsearch	<p>The project's major goal is to provide the location of medical stores where the essential medicine is readily available. So that a user in desperate need of medicine can identify the store's exact location simply by searching the name of the medicine. As the second wave of the COVID-19 epidemic spreads, a shortage of medications on the market is wreaking havoc on patients, particularly those receiving treatment at home. People go to a slew of medical stores in search of that one vital medication, only to come up empty-handed. We've seen many occasions when the severity escalated to life-threatening levels in just a few minutes if the proper medicine or drug was not administered. As a result, an application that reduces the time spent visiting numerous stores for a medicine by displaying the correct location and store details of the medical store that has the medicine in stock would be extremely beneficial to society. The software was created with the use of an online tool called Kodular, which is a low-code platform for developing Android app</p>	
46.	188W1A05E8 188W1A05H0 198W5A0517 188W1A05B9	Medasani Hari Kumar Veeranki Goutham Balikuri Roja Pushpa Abdul Nadeem Mentor: Dr Ch Anuradha	Codiet	<p>The main aim of the project to notify, Covid effected people about their diet plan during the quarantine. Eating a healthy diet is all about feeling great, having more energy, improving your health, and boosting your mood. Good nutrition, physical activity, and healthy body weight are essential parts of a person's overall health and well-being. People are worried about their diet since there is no vaccination for this virus. To overcome this problem, we have come up with an idea of "Codiet", which intimates the user through E-Mail and SMS once they registered in the website.</p>	

47.	188W1A05G5 188W1A05F6 188W1A05D3 198W5A0521	Supriya Katragadda Potluri Tejaswi Doppalapudi Sriram Kondeti Rohith Mentor: Ms V Deepa	Throng Sway	Detection of crowd using UAV images	
48.	188W1A05C5 188W1A05F3 188W1A05C9 188W1A05F0	Budithi Twinkle Mounami David Panchanapu Nikhil Chandra Chirakala Bhavya Sree Mudimadugula Charan Teja Mentor: Dr Rizwan Patan	Design And Development Of E- Learning Portal Powered By VRSEC	A prototype of cloud E- learning system with social networking is developed on cloud and several applications features are described based on the proposed architecture to describe the effectiveness of the architecture.	