**WhiteHat Jr Swasth Bharat Tech Champs**

**Parvathi Jayapal**

**Idea to solve a health sanitation issue**

**I am submitting the below 2 ideas , kindly advice your though and suggest me which one is better to submit**

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**Idea 1 :**

**When people observe garbage dump on road sides and public places haphazardly , help them to locate and send a message to the health and sanitation department in the locality with image of the garbage , so as to clear it .**

**OR**

**Idea 2**

**Help people to locate garbage bins kept in public places , malls, theatres etc so that they can deposit the trashes securely .**

**CEO of the day**

**I am submitting the below 2 Mission statement**

**Idea 1.**

**Creating a platform to support starving people, so that anyone can send their details to the authorities , NGOs or charity organizations in the locality to provide help to them**

**Idea 2**

**Creating a platform to help farmers to chose the best seeds of plants and vegetables suiting to their land type as well as the right seasonal manure and safe pesticides to ensure proper yield**

**Idea 1 :**



**It is a fact that, some people in the society have a tendency to dump their house hold/shop garbage covertly on road sides and other public places. It is one of the biggest health hazard in India which leads to spread of diseases ,polluting the soil and water resources. Besides ,the place will look untidy , foul smelling with insects flying around and attract stray animals . This is a big nuisance to the fellow citizens of our country .**

**My idea to solve this problem is as below :**

**When citizens observe garbage dumps on road sides and public places haphazardly , help them to locate and send a message to the health and sanitation department in the locality with image of the garbage . The authorities can then clear it and may investigate to find the persons who caused such troublesome act to the public .**

1. **How will your app solve the problem**

**Share who will use the application and how it will benefit them(150)**

**My app can be stored on the mobile of any citizen. While, any of them observe such trashes on road sides and public places , open the app, which will show its location . Further the app will search for address and mobile number of local health and sanitation authority who is in-charge of the area. The person can type message regarding the garbage he/she found . The person can also take a photo of the garbage dump and attach the same from gallery /storage along with the message .The message, location and photo will be shared to the sanitation authority by clicking submit for their further actions.**

1. **What features are you planning to have in your app(150)**

**Talk about different features that will solve the problem**

**1. I will use thunkable platform to design my App.**

**2.The features of my app will be screens, labels**

**3. Buttons- Go to map screen, search location maps ,to send message**

**4. Text input for searching location of nearest sanitation authority and their contact details (email/ ph. number)**

**5. Camera features – to take photo of garbage dump in jpg or png format and save .**

**6.Select file ,open and upload along with message to the nearest authority through data base**

1. **Date of birth**

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1. **Creator of 300-350 apps and an expert in 6+ programming languages is no mean feat!**
2. **If the lockdown was a period of testing times, it was also the times when children got to explore their creativity like never before. These super talented kids not only deserve applause, but they also need to be inspired to keep up this spirit – in the near future. One such super kid is Tanish. A 7th-grade student, who is always driven by curiosity to build something new, to do something different. He has this knack for watching videos on the internet on coding. And that’s when he one day stumbled upon a video by WhiteHat Jr, and he got quite hooked onto what he saw. He wanted to make a school app that changes colors, design, and a host of other exciting activities.**

**Tanish was so engrossed in learning to code that he literally completed the 6 months course, i.e. about 48 classes, in just 2 months. Now, that’s something, and it definitely shows how dedicated this young boy was to learn about building something new, every single day. An avid learner, Tanish, he was keen to have knowledge in other languages too – so he learned Swift, Python, Data Science, Ethical Hacking, Android Development, Git, HTML, CSS, JavaScript, Web Designing, Vagrant, Linux, Cyber Security, FlexBox, CSS Grid, Cocoa, BootStrap, CAD, Arduino, Blocky, Data Science, Kali Linux, 3D Printing Software like Fusion 360, and a host of others. The Arduino Projects that he has undertaken has been extremely well received, namely – Smart dustbin, Lesser Module, Using DHT -11, RFID Windows/Mac/Linux Login System, RGB led control using a smartphone, Hell magnet, The robot car, Radar, the Otto Project, and a few more exciting ones. He has also developed the Sniper Strike – A shooting game and also The Colour Widgets, the best part is for developing both the apps, he came first. One of the highlights in his career so far has been to win the prestigious One Year, Free exclusive membership from Apple for being the Youngest Developer. Tanish is always bubbling with energy – in this time, he has also completed a magnificent feat of creating 300-350 apps on Thunkable and code.org. This little, big boy has built a very innovative app called the Image Sketcher – it can make a sketch of any image, the way one wants it to look like. He made this with the help of Machine Learning (ML) and Python. Tanish is very fascinated with things that are out of the world – no wonder, why even his inventions are absolutely awe-inspiring. His My Location program will give the image of one’s location, directly from the satellite. Now, isn’t this something absolutely marvelous? Tanish has built the 3D Printed CNC Machine that displayed his ingenuity and analytical skills with seamless ease. 1000 views have already taken place and we’re still counting. His YouTube channel, Studio Coders-6, also, records more than 1k subscribers. Tanish’s parents and teachers have been a key inspiration behind his success, but when it comes to WhiteHat Jr, they feel it deserves a special mention for being that enterprising mentor to this young coder.**

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**Creator of “Prep Talk” – an app for specially-abled children, to write their exams with ease**

**Let’s give a high-five to Abhimanyu, a 12-year-old student of Oberoi International School, Mumbai. Introduced to coding in Class 1, he first experienced the joy of coding through immersive fun activities like digital storytelling. And at that young age, he participated in the ‘Hour of Code’ - the largest global educational event in history. But Abhimanyu did not want to stop there. A mind brimming with curiosity led him to explore coding beyond what he had already been exposed to. Joining WhiteHatJr’s advanced module in Class 5 turned out to be a very important milestone in his educational journey. Abhi started WhiteHatJr in the summer of 2019 and has been a dedicated student of coding ever since. So far, he has attended around 145 classes, having learned different coding languages, such as - Blockly, App Lab, Javascript, HTML/CSS, ReactNative, and Python. And what a journey it has been! He gives full credit to his teachers, Maimuna Ma’am, Antora ma’am, and Geetha ma’am. But for their exceptional knowledge, dedication, and patience, he would not have progressed this well. According to Abhimanyu, Geetha ma’am, his current teacher, ensured he really grasped the concepts which helped him tackle the higher level of coursework and assignments, as he moved up to the Professional module.**

**Once Abhimanyu felt confident to take on the world with his coding skills, he decided to participate in the Silicon Valley challenge and built an app “Prep Talk”. This app is one of its kind: helping specially-abled children write their board exams using either an assistive technology option or a human assistant search option. He considers being selected as one of the 26 Silicon Valley finalists as one of the high points of his life. He greatly enjoyed his sessions with his assigned mentor who challenged him to think out-of-the-box and look at the problem statement from both a technical and a business perspective. He feels all the mentoring lessons have benefitted him immensely and expanded his problem-solving tool-kit by incorporating the use of technology. Abhimanyu loves solving challenging mathematical problems because he comes with an analytical ability to ask questions. So, it comes as no surprise that he likes to participate in International Math competitions. In 2019, he traveled to Jakarta, Indonesia, as a part of his school team for the South East Asian Math Competition (SEAMC), where he won three gold medals and collaborated with students from across 20 countries. In addition to math & coding, our little star, Abhimanyu, loves making friends, traveling to different places, cycling, water sports, playing Minecraft, and listening to music. What inspires him greatly is the desire to excel in whatever he does – big or small. His vision is to become the best version of himself, now and forever.**

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**Balancing studies, making new discoveries and becoming a GK whiz kid, is indeed fascinating.**

**ADITYA SINGH is an exceptional student and has always secured high grades that helped him secure good ranks in school. Science and General Knowledge (GK) are his favourite subjects, he is also intrigued to make new things for his science projects. Aditya is an acclaimed ISFO olympiad winner in three of his favourite subjects - Science, GK and Math. Inspired greatly by his mother, Aditya was selected by Collins Publishing House for an exoplanet workshop trip that helped him learn a lot beyond school textbooks.**

**A first-class student of WhiteHat Jr, Aditya, has set an example to all his friends as to how one can be a master in balancing studies, learning about explorations and discovering state-of-the-art technology and innovation. Aditya believes - “You have to keep doing , and not stop mid-way. Do it till you have achieved your goal. Now that’s a learning exercise for all of us.”**