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| **CAPSTONE PROPOSAL SHEET**  **SECOND SEMESTER 2020 - 2021** | |
| Title of the Project:  COLLABORATION PLATFORM USING REAL-TIME CODE EDITOR, VIDEO CHAT & TEXT MESSAGING | Name of Proponents:  **Jerald Sayson**  **Ian Christopher Nellas**  **Eugene Mosqueda**  **Stephenson Nolasco** |
| **Rationale of the Study:**  In this pandemic year, there were a lot of students that divert the attention to users especially on the technology today which is spread globally and it is utilized in their studies such as mobile devices, computers, or laptops to create or research and surf on the internet about the lessons, activity, and assignments that are incomprehensible to the students. Searching for correct and reliable information of what the students must find is quite hard sometimes and will never be accurate about what the students really want to find on the internet. We know how technology evolves and it keeps evolving every few years but in the field of searching for correct ideas, information, and solutions is quite tricky and hard to find sometimes. That is why we develop an easy way to make it more convenient for the students and lessen their burden in finding a solution and giving them correct information to fix their problem.  We created a system that is a web platform for students and self-taught learners especially for those people who are in the field of programming who is looking for an immediate response, answer, and solution for their coding problems. It offers live video chat, text messaging, and a real-time code editor where users and teachers can modify one single editor and can communicate via text, audio, and video chat in one single browser. This will make learning and teaching more fun and easy experience.  Our objective is to provide a live solution for the students and self-taught learners especially to those people who are field of programming that are slowly learning in the field of programming that awaits oftentimes for many hours, days, weeks, and even months for an answer, response or solution online. In addition, we make this kind of system to provide the students and programmers a platform where they can immediately find an answer or solution for coding-related problems via live communication through video chat, text messaging, and real-time code editor. Aside from that, we also want to offer this platform for those people who are passionate about teaching (especially programming) and make money from it.  We motivate ourselves to propose this type of system to help the students, self-taught learners, and specifically those people that are in the field of programming. We want to provide and build an environment where both users collaborate with each other to solve their code-related issues instantly.  **Objectives of the System:**  Our main purpose is to create an environment where a user can find a solution to their code or programming related problems instantly through a one on one live collaboration and provide them all the necessary components that are useful for online teaching.  That specifically aims to:  1. lessen the time consumptions of the student searching for internet tutorials or information on their code related problems;  2. hassle-free in finding an answer or solution to their code-related problem or any programming related problems;  3. Make the student became more productive and inspired to learn something new and explore their code further;  4. provide a better quality learning to all the students who take up programming-related courses;  5. solve the student problem on their code and teach them how to organize and use proper syntax and code; and  6. gain an extra income on their free-time by helping student.  **Scope and Limitation of the System:**  The researchers found out that some of the students struggling on their programming-related problems and they need an effective way to solve their coding problem. The researchers want and aim to provide a solution to this problem with live coding web-based system applications that can do the following:  1. Student Account Accessibility;  1.1 Registration  1.2 Login / Logout  1.3 Show teacher if online  1.4 Real-time Message/Reply  1.5 Direct Payment  1.6 Code-editor  1.7 Programming language selection  1.8 Teacher selection  1.9 Tutor Allocated Time Selection  1.10 Webcam Navigation On/Off  1.11 Microphone Navigation On/Off  2. Teacher Account Accessibility;  2.1 Registration;  2.2 Login / Logout;  2.3 Live teaching;  2.5 Accept/Reject student teaching request;  2.6 Webcam Navigation On/Off;  2.7 Microphone Navigation On/Off;  3. Scheduling features;  3.1 do a scheduling task if the teacher is offline;  3.2 do a scheduling task if the teacher is offline;  However, the system is not capable of he following:  1. a huge and complex code;  2. multi-purpose application;  3. Making an enterprise application  **Significance of the Study:**  This study will be helpful to the following:  Students. The study will provide a system to the students that having problems with their code that they want to fix without waiting. It will help them to easily understand and get the solution to their programming-related problems in no time and less hassle.  Teachers. It will help the teacher who has free time that wants to earn extra income and also improve their mental and logic in teaching. In addition, it also makes them feel happy because their teaching helps a lot of students.  Academic Institution. It will help them to lessen their burden in making the student understand their lessons in regards to programming courses.  Researchers. This study will give a big help to future researchers on how to give alternate ways on helping the students who’s struggling with their programming course they take up.  **Sources of Data:**  Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu.  1. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  2. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  3. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  **Methods and Techniques:**  Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu.  1. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  2. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  3. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  **Models:**  Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu.  1. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  2. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  3. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  **Tools:**  Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu.  1. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  2. Lorem ipsum dolor sit amet, consectetuer adipiscing elit;  3. Lorem ipsum dolor sit amet, consectetuer adipiscing elit; | |
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