Group 3

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Proposed Project Title: QR Code e-fare Payment Application

Sustainable Development Goals:

1. To provide wireless online mobile payment for public utility vehicles.
2. To decrease hand to hand transactions of giving the fare rides.
3. Contact less payment.

Project Descriptions:

Due to pandemic situation we are experiencing, strict protocols has been implemented along the city to be followed by its fellow citizens. Social distancing is strictly observed not just in the streets but also in the public utility vehicle services such as public utility jeepneys and trycicles. Dagupan City has an accessible public transportation vehicles routed to different barangays of the town and nearby related towns of Pangasinan.

This application aims to promote wireless payment transactions to avoid the spread of covid-19 virus. Coins and paper moneys are handled by different people and are used to pay fares and give change. This application also serves as a mobile reminder for the commuter to always do sanitation and give tips for a safer travel and commute to avoid possible infection to the exposed areas with covid-19.

IT Based Solutions:

1. Provides QR code and QR code scanner for faster payment transactions.
2. Requires low amount of data for online operation of application.
3. Can create multiple user accounts for system log-in.
4. Provides the official fare matrix for commuters basis.
5. Can add money to your user account for mobile e-money.
6. Available for Android and iOS phones.

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Proposed Project Title: UPang Scholars e-Tracker

Sustainable Development Goals:
1. To provide a mobile daily time record that tracks their duty hours.
2. To show the user where is the assigned place and time of duty respectively and;
3. To show the user who is the assigned instructor who will give your tasks.

Project Descriptions:

Since the lock down happened because of covid-19 virus, pandemic strikes and the University forced to cancel face-to-face classes to get rid of possible infection. Therefore, the alternative way to continue classes is to enroll either Flex-learning or Modular learning. Instructors, University staffs and students are greatly affected by this situation especially, to the students who are granted with H.K. (Handog Kaibigan) Scholarship and S.A. (Student Assistance) Scholarship. Going to your assigned department/classroom to make-up with your duty is not complete without physical interaction. But due to the situation, this may not be possible as of now.

Moreover, online class is still on going and, online duty should be too. To record your duty hours there should be an app that compromises and manage your duty hours to make it possible for the scholarship renewal. This application aims to record your duty hours with respective dates. It also updates the user when will be the scheduled scholarship renewal and also updates the user if duty hours is complete. In additional to that, the reports will be sent to the CSDL admin for verification in completing the duty hours.

IT Based Solutions:
1. Provides online DTR tracker.
2. The application will detect if the user is on-duty or not on-duty.
3. Duty place will redirect to the website where students on-duty will take place.
4. Takes a less amount of data for system log-in operation.
5. Updates the user for scholarship renewal.

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Proposed Project Title: Mobile Facial Recognition Attendance Monitoring System

Sustainable Development Goals:
1. To have a better way of getting the presence of the students as an attendance to each subject.
2. To lessen the time of calling each students for their attendance and;
3. To avoid lapsed name which accidentally passed by their instructor and considered as absent in attendance.

Project Descriptions:

   Traditional way of creating an attendance for the students in each subject is very hassle, each instructors have many sections handled by them. This make time more consuming and reduce the initial time for classes especially for the time of discussion and lesson activities. We come up to the solution that may solve this problem for the benefit of all. This project aims to provide wireless mobile attendance for the students and the attendance report of each students will be collected to the attendance record of the instructor.

   This also aims to make the attendance more easier, effective and not time consuming for each class respectively. In terms of monitoring system, the parents should know if their children are entering the class or not so that they have the assurance if they are active on class or not. Lastly, This can be beneficial for the students especially to the instructors for monitoring their students for each subjects of the class.

IT Based Solutions:
1. Use the camera of the phone to identify the student's details and information and will be sent to the instructors attendance record.
2. Instructor can use their phone to receive the attendance report of their students.
3. Application has a file path for storing the attendance, they can able to manipulate it such editing, adding, update and remove etc.
4. It will require to use the University gmail of the instructors and students or personal gmail for system log-in.
5. The application will just consume low amount of data for system operation.
6. This is an online app for effective sending and receiving attendance reports.