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# Software Development Project Proposal

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## **Introduction/Background**

Information Technology Resource Office (ITRO) has recently assigned the APC Clinic System to be developed by Team Cobala, information technology students of Asia Pacific College. The project will focus on building a web-based clinic system which provides a simplified and more user-friendly approach for the existing users and to lessen the operational burden of the users.

## **Scope of Work**

The scope of work for the APC Clinic System Project includes all the required modules: clinic, registrar, and reporting. The target of the team to have a prototype including registrar and clinic module before February 20, 2017 and have it checked by our adviser and client. Additionally, the reporting module will be followed afterwards in order for the team to focus on the main problem of the current system.

The Team Cobala will be responsible for analyzing, designing, and improving the current APC Clinic System. Each added feature in the prototype should be approved by the Team's adviser in order to maintain quality. The systems developer and systems designer ensures that each requirement would be met and each requirement would be tested.

## **Current System**

APC Clinic current system runs on the APCIS system of the school. They have two users which is the nurse and doctor which has the same functions including access to registrar module which is viewing of student schedule, class lists of students, and student clearance. They are using this module to create an appointment for the medical check up of students. They must first view the schedule of the student to make sure that it will have no conflicts and write it down on a piece of paper then will proceed to the adding of appointing of medical check up. If ever the student has not yet taken the initial medical check up, he/she will not be cleared for clearance. After the student has successfully completed the medical check up, the nurse would still input manually the specific student to marked it as cleared which is time consuming.

The users can also access the clinic module where they could file a emergency case whenever there are emergency cases occurred within the premises of the school. The purpose of this is to have a history record in case the guardian of the student wants to know what happened. Additionally, the users can also access the book collection of the library and tutorials about the APC QMS.

## Proposed System

- **Registrar Module**
  - Student Appointment
  - Student Contact Information
  - Student Clearance
- **Clinic Module**
  - Emergency cases
- **Reporting Module**

The proposed system will target all of the modules of the APC clinic system and to further improve it by organizing and making it user friendly for the users in order for them to have a better experience.

The first thing that team would do is to have a registrar module where it includes the appointment, clearance, and contact information of the students. Organizing this functions into one module would make the process much more faster compared to the current system. Whenever the user would like to add a new appointment, he/she should enter the student id of the patient and the schedule of student will show, below will have a form where the user will input the date of the appointment for the student.

Furthermore, the user can also easily add or edit the clearance of the students in the clearance function. There would be a list of students that has not yet cleared for clearance and they can edit it whenever the student has successfully comply with the requirements of the clinic.

The HR and clinic modules of the current system and the proposed system will be having the same processes and functions but the team would organize it and will have a proper naming convention in order for the users to easily utilize it.

The proposed system will also target to have the students, staffs, and faculty to update their contact information in order for the clinic to immediately contact their guardians in case a emergency happen. A list of new students of the school is also necessary to make sure that all of the students of the school would be checked up by the clinic.

The last proposed module of the team is to have a reporting module where it could display current status of the operations they are conducting. For example, number of students who has

already been checked up and the remaining students. This would help them to easily track and identify the progress of their operations.

## **Importance of the Proposed System**

The relevance of the proposed system is to regulate the processes more effectively and to make sure APC students, faculty and staff can avail of free medical and dental services in the clinic. The proposed system would let the staff of the clinic to easily determine the progress of their operations. The current system really takes a lot of time in inputting processes for each student which really takes a lot of time. So the target of the proposed system is to eliminate this and to make the staff of the clinic to focus more on the wellness and health of the personnel in the school such as advertising current diseases and how to prevent it, first aiding events, etc...

The APC clinic system also conducts annual physical checkup of APC students to ensure well-being of students and by doing that so, the appointment system of the clinic should be up to date and there would be no conflict on the schedule of the patient.

The data gathered in the analytics could be used by the school for research purposes for the clinic to improve the service they offer to the APC students, faculty and staff. The APC clinic system could possibly be adapted by other schools if ever the current system of the said school is outdated or already irrelevant.

