

ASIA PACIFIC COLLEGE

School of Computing and Information Technologies

3 Humabon Place, Magallanes. Makati City

**Software Development Project Proposal**

January 26, 2016

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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. The staff of the clinic required the team to include an appointment module specially for senior high students and up to date contact information of the guardians of every student. The team also suggested to add analytics in the system for them to further research the information given by the student or staff visiting the clinic.

# **Scope of Work**

The scope of work for the APC Clinic System Project includes all the required modules: appointment, student and reporting. Although the initial scope of the APC Clinic system is not yet fully defined and could possibly change in time. 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 should each requirement would be tested.

# **Current System**

APC Clinic current system runs on an application called Flavio and as the nurse stated that they have schedule viewer that can only search the student’s ID and the schedule planner isn’t computerized. Also, they can file an Emergency Case where the clinic will contact the guardian of the student but the contact information of the guardians is outdated. They also have Human Resources module where the staff could apply for leave, over time, edit schedule and profile.

They can determine the students that has problem with clearance and they also have Student Services module where they can add student medical checkup and view new student’s medical checkup. They also have Library module where they can access the collection of available books in the library.

# **Proposed System**

For the APC clinic system, the database will store the patients record and which doctor or nurse he/she visited and what medications that were prescribed. This will fall under the analytics module which will be seen in the dashboard of the system. The analytics will keep track of the students visiting the clinic and it comes along with a graph for an easy and visually appealing way of keeping track of the patients. This would help the clinic because they could request for the student’s medical records if they come often in the clinic.

The updated contact information of the guardians of the students as per requested by the clinic itself will help them to easily communicate if ever the patient has a medical condition or problem.

Since there will be no upcoming 1st year students in Asia Pacific College and only college students are only registered in the current system, adding the information of the Senior High School students for appointment schedules will widen the clinics patients and will now be recorded in the system because they are also technically part of the Asia Pacific College Community. Not only they can search student’s ID but they can also input appointment schedules in the system.

# **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 who are always visiting the clinic and figure out if that person has a medical condition and to immediately contact the guardian of the person.

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.

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.

# **Period of Performance**

The period of performance for the APC Clinic System started on January 23, 2017 up to the last day of the 3rd Term AY 2016-2017. All necessary documents, diagrams, and the system itself should be completed within the given timeframe.

# **Work Requirements**

As part of the APC Clinic System, the Team Cobala will be responsible for performing tasks throughout various stages of this project. The following is a list of these tasks which will result in the successful completion of this project:

Kickoff:

* Project Manager will create and present detailed project plan including schedule, WBS, testing plan, implementation plan, training plan, and transition plan
* Project team will present project plan to adviser/client for review and approval

Research Phase:

* Systems research will work with adviser/client to gather information needed for the project
* Systems researcher will create document (project context, purpose and description, objectives, scope and limitations, related studies and related systems)
* Present written document to adviser/client at weekly meeting

Design Phase:

* Systems developer and systems designer will work with adviser/client to gather requirements
* Systems developer and systems designer create site design based on collected requirements
* Systems developer and systems designer develop site design proposal for adviser/client review and approval
* Present system proposal to adviser/client at weekly meeting

Build Phase:

* Systems developer and systems designer will complete all coding for approved site design
* Systems developer will provide adviser/client with a detailed testing plan
* Systems developer will include all information provided by adviser/client on redesigned web site
* Systems developer will conduct testing
* Systems developer will resolve any coding and site issues identified in testing
* Systems developer will compile a testing report to present to adviser/client for review and approval
* Present system proposal to adviser/client at weekly meeting

Implementation Phase:

* Systems developer will implement the newly redesigned web site on adviser/client servers, if approved
* Systems developer will begin providing 24x7 web site support at this point forward until the end of the period performance
* Present status to adviser/client at weekly meeting

Training Phase:

* Systems analyst will provide training in accordance with approved training plan provided in the kickoff
* Present status to adviser/client at weekly meeting

Project Handoff/Closure:

* Systems analyst and systems researcher will provide adviser/client will all documentation in accordance with the approved project plan
* Project Manager will present project closure report to adviser/client for review and approval
* Quality assurance/control will complete the project requirements checklist showing that all project tasks have been completed
* Systems developer will conclude 24x7 web support at 11:59pm on the final day of the period of performance
* Present status to adviser/client at weekly meeting