

Project Overview

Project Title (in English):

Location aware e-Portfolio System

Project Title (in Chinese):

位置感應電子履歷系統

Executive Summary

(Please provide, within this page, an executive summary of the project.)

Objectives

The goal of the project is to develop a platform for students using their mobile devices to achieve the following:

- Enhance students' learning through location based app and the web-based system
- Develop database of clinical hours of students for professional registration
- Develop student portfolio throughout students' College life

Background

College students often bring their smart mobile phones to College and learn. In a show of hands survey ITSO conducted during orientation for academic year 2013/14, 80% of students coming to Tung Wah College already have smart phones with them. With the full coverage of WiFi in the College and the excellent IT infrastructure in Hong Kong, this provides a very good foundation for ubiquitous learning.

Justifications

Clinical placement experience, particularly clinical hours for nursing students, is the requirement for their professional registration. Reflections from clinical placement are also important for preparation of their professions. It would be effective if the hours can be recorded on the spot when they attend to the clinical sites and leave the clinical sites. Also, students can write their reflections based on the location of the site they go. In this way, clinical hours of the students can be recorded and they can have a map of the locations they have worked with their reflections right after they have completed their placement.

Students may have reflections, photos and videos on their work during Student Work, Community Service Programmes and other extra-curricular activities in different locations. With the location component of the app for student activities, a portfolio can be recorded together with the geographical location. A nice map of footprint on their works in the College is ready once they have completed their works.

For those students who do not have smart phones, they can still use the web interface of the system for manual input.

Deliverables

The deliverables of this project are:

- Backend system with database for the apps and integration with e-Portfolio and e-learning system
- A universal app in iOS platform for iPhone and iPad
- An app in Android platform
- A web interface for students' manual input and staff administration
- A private cloud platform for service subscription from other institutions

Milestones

Month	Milestone
1-3	Equipment purchase and staff recruitment
4-9	Development of backend system and web interface
10-15	Development of app in iOS platform
16-21	Development of app in Android platform
21-24	Development of private cloud platform for service subscription
24-27	Reports write-up and project wrap-up

Beneficiaries

Type	Number
Tung Wah College students	3,000
Short course students	200
Students from other institutions subscribing the service	500
Total:	3,700

Problems Identified		
<i>(Please provide your assessments to the problems / needs identified.)</i>		
	Problems / needs identified	Assessments
1	A need of a convenient method to record clinical hours with location information and reflections for students through their smart phones and an administrative system for managing student clinical placement activities.	Observation of student behaviour and sharing by NHS staff
2	A need of a convenient method for students to build and maintain their e-portfolios with their habit of using mobile phone.	Observation of student behaviour by ITSO staff

Project Objectives and Deliverables	
Measurable Objectives	How it can be achieved
1. Enhance students' learning through location based app and the web-based system	Students enter reflective journals in the app and the system and comments by faculty members of the College
2. Develop database of clinical hours of students for professional registration	The system reports developed are presentable for professional body registration.
3. Develop student portfolio throughout their College life	With the integration of e-portfolio and e-learning system and the map of footprint on their works, a richer portfolio can be constructed by the student with less effort.
4.	
5.	

Project Deliverables	
<i>(Please list out all the deliverables to be achieved and how they can be shared with, if possible, other institutions.)</i>	
Deliverables	Sharing mechanism
1. Backend system with database for the apps and integration with e-Portfolio and e-learning system	Customization and Private cloud subscription
2. A universal app in iOS platform for iPhone and iPad	Free app in App Store
3. An app in Android platform	Free App in Google Play

4. A web interface for students' manual input and staff administration	Customization and Private cloud subscription
5. A private cloud platform for service subscription from other institutions	Private cloud subscription
6.	
7.	
8.	

(Please indicate the information that can be uploaded onto relevant EDB websites during and after the project period.)

Link for the website for private cloud subscription and link for app download in App Store and Google Play

Beneficiaries

Expected type and number of beneficiaries of the project	3,700 students (details as follows)
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(Please provide justification to support the above estimation and explain how they can be benefited from the project.)

Type	Number	Benefits
Tung Wah College students	3,000	Get a handy app and organized system for student portfolio setup and professional registration
Short course students	200	Help to record and report student work and future certification / registration possibilities
Students from other institutions subscribing the service from 2016/17	500	Enjoy the same benefit with minimal resources
Total:	3,700	

Implementation Schedule		
<i>(Please list out the implementation schedule and key milestones to be achieved on a half-yearly basis.)</i>		
Estimated start date of the project (month/year)		September 2014
Estimated end date of the project (month/year)		November 2016
Project duration (months)		27 months
Month	Key milestones	
	In terms of project activities and deliverables	In terms of monitoring and evaluation
1-3	Equipment purchase and staff recruitment	Under the charge of the Project Coordinator
4-9	Development of backend system and web interface	Evaluation by Department of Nursing and Health Sciences and Student Affairs Office
10-15	Development of app in iOS platform	Evaluation by Department of Nursing and Health Sciences and Student Affairs Office
16-21	Development of app in Android platform	Evaluation by Department of Nursing and Health Sciences and Student Affairs Office
21-24	Development of private cloud platform for service subscription	Evaluation by ITSO
24-27	Reports write-up and project wrap-up	Under the charge of the Project Coordinator
Publicity Plan		

(Please describe all the publicity activities to be organised and materials to be produced to acknowledge the support of Quality Enhancement Support Scheme. Please suitably reflect the publicity activities as key milestones in the implementation schedule above.)

There is a website with project description and private cloud subscription system. The project will be advertised through e-Newsletter of the College. Demonstration of the system in other institutions is available upon request.

Cash Flow and Budget				
Project Expenditure				
	Amount in HK\$			
Period	Year 1	Year 2	Year 3	Total
Manpower	315,000	459,900	0	774,900
Equipment / Facilities	237,332	802,332	0	1,039,664
Services	0	0	0	0
General Expenses	0	5,000	0	5,000
Others (e.g. auditor's fee)	0	0	66,978	66,978
Total	552,332	1,267,232	66,978	1,886,542
Project Income (if any, e.g. fees received)				
	Amount in HK\$			
Period	Year 1	Year 2	Year 3	Total
Total				
Grant Sought under the Quality Enhancement Support Scheme			\$1,886,542	
Funding from the Applicant				

Funding from Other Sources	
Total Project Value	
\$1,886,542	
<p><i>(Please specify the amount to be funded by each funding source (e.g. donations, contributions from applicant / its parent organisation) and whether the funding has been secured. If not, please provide the plan to obtain the funding.)</i></p>	
<p><i>(Please provide the duty lists of manpower to be funded by this project.)</i></p>	
Post	Duties
Project Officer	Programming and development of the system and apps, website maintenance, private cloud platform setup
<p>Project Sustainability <i>(Please estimate the amount of recurrent expenditure and describe how you will commit the resources to ensure sustainability of the project. Please put supplementary information (e.g. proof of financial support) at appendix.)</i></p>	
<p>Cloud subscription of the system will be charged based on the software license, virtual server resources and customization need. The subscription is charged to the institution on a cost recovery basis as ITSO income. The recurrent expenditure for the product of this project includes the server maintenance fee of \$90,000 per year starting from the fourth year of operations and iOS development license for \$2,337 per year. This will be supported by R&M computer hardware and software budget of ITSO as part of the IT infrastructure of the College.</p>	