Apple Technologies

SUPINFO International University

INSTITUTE OF INFORMATION TECHNOLOGY

Objective-C and Cocoa Development

Second Project

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Author: Samuel CUELLA

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1 OBJECTIVES

This project is a research project that will help you improving your programming skills and more specifically your Cocoa/UIKit fluency.

Here is a non-limitative list of skills and areas involved:

- Connectivity
- Location API
- Data gathering

2 THE PROJECT

In this project, you'll write an iOS application. If you can't run the OS X virtual machine and thus can't access a working development environment you can, **with the explicit acknowledgment of your trainer**, do the exact same project using the regular Cocoa toolkit (NSApplication/NSView/...) instead of Cocoa touch. The first virtual machine running GNUStep provides such an environment.

Campus Compass is an application that shows the current bearing and distance to the nearest SUPINFO Campus in a Compass-like fashion:

Instead of tracking north, it will track the nearest SUPINFO Campus.

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2.1 APPLICATION FEATURES

The application must show a compass-like interface with a rotating indicator. Graphic quality is not part of the evaluation. You're free to use any images you want or just go with Paint-like drawings. Only the feature is important.

The application must retrieve the campus list and addresses from supinfo.com and lookup GPS coordinates from that list.

During the tracking, the application must show the campus name it's pointing to along with distance and bearing.

3 CONDITIONS AND DELIVERY

This project is individual. Teamwork is **strictly prohibited**. Failure to comply with these rules will result in a **0/20 mark** for **all students** delivering the **same work**.

You have to deliver the following items to your local trainer:

- Application code
- XCode project

If you've created a GNUStep Application, you'll have to deliver:

- Application code
- ProjectCenter project
- Demo binary that runs on the virtual machine

4 DEADLINE

You must have sent items from section 3 to your local trainer by the **06 of April 2015, 23h59 GMT+1**.

If your local administration gives you a different deadline, it will take precedence on the here above.

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5 GRADED ITEMS

Item	Point
The applications shows a compass-like interface	4
The compass reacts to the user position/bearing relative to the nearest Campus	5
The application can retrieve campus list and addresses from supinfo.com	6
The application can geolocate campuses (GPS coordinates) from grabbed addresses	5
Total	20

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