

CSCI 6907 Project Proposal

TimeCard

10/03/2011

Sneha Vankamamidi

Project Abstract

The TimeCard app is used for keeping track of the hours worked and supports multiple jobs. It allows adding our job(s)/employee, clock-in or clock-out according to our schedule and at the end of the pay period, we can export our time card and email it to the boss or client. Additionally, it lets us save our schedule in a calendar and sends a notification 15 minutes before the clock-in time. Apart from this, the app also helps in activating our gps and route to the job location.

Strategy

This project will be developed in EclipseIDE 3.6 using JavaSDK 1.6.0 and will be run on a BlackBerry9800 Emulator. The following are the API's used in building this project:

- ✓ *net.rim.device.api.ui*: To build a user-friendly interface
- ✓ *net.rim.blackberry.api.invoke*: To invoke the internal applications of the device such as email or calendar
- ✓ *net.rim.device.api.notification*: To trigger event notifications (through consequences like tone, LED or vibration etc.)
- ✓ *net.rim.device.api.gps*: To activate gps and route to the job location

Unknowns & Problems

The major challenge in developing this application is to notify the user according to the gps location, such that we can clock-in at the right time. Also, I am not familiar in working with different API's and integrating them together into my project. If incase I want to store and retrieve the previous timesheets, I would have to integrate my application with a database. I am still figuring out whether or not to use a dB.

Implementation Plan

The following are the modules for implementing this application:

Module 1: For adding multiple jobs or employers. Insert the job location, pay/hour and email address of the supervisor.

Module 2: For providing a user interface to clock-in and clock-out

Module 3: For creating a calendar, saving the schedule (date and time).

Module 4: For creating time sheets, calculating pay stub and exporting it to a file location.

Module 5: For notifying the user with alert messages to reach the job location prior to clock-in time.

Project Proposal

Module 6: For activating the gps and routing to the job location.

Integrate all the above modules, provide the test environment and deploy it to the emulator.

Optional API's

- ✓ *net.rim.device.api.database*: for database functionality
- ✓ *javax.wireless.messaging*: to allow the application to send and receive wireless messages
- ✓ *net.rim.device.api.io*: to manage file operations