

DCS Codex Mobile Application Analysis Model

Submitted to:

Asst. Prof. Ma. Rowena C. Solamo
Faculty Member
Department of Computer Science
College of Engineering
University of the Philippines, Diliman

Submitted by:

Borja, Kim
Pilipina, Jigger Angelo
Valencia, Ian Benedict

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Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
10/22/17	Borja, Kim	1.0	Initial Document
10/27/17	Pilipina, Jigger	1.1	Added multiplicity values to class diagram

Purpose:

This document presents the Analysis Model of the project based on the Use Case Model and Specifications.

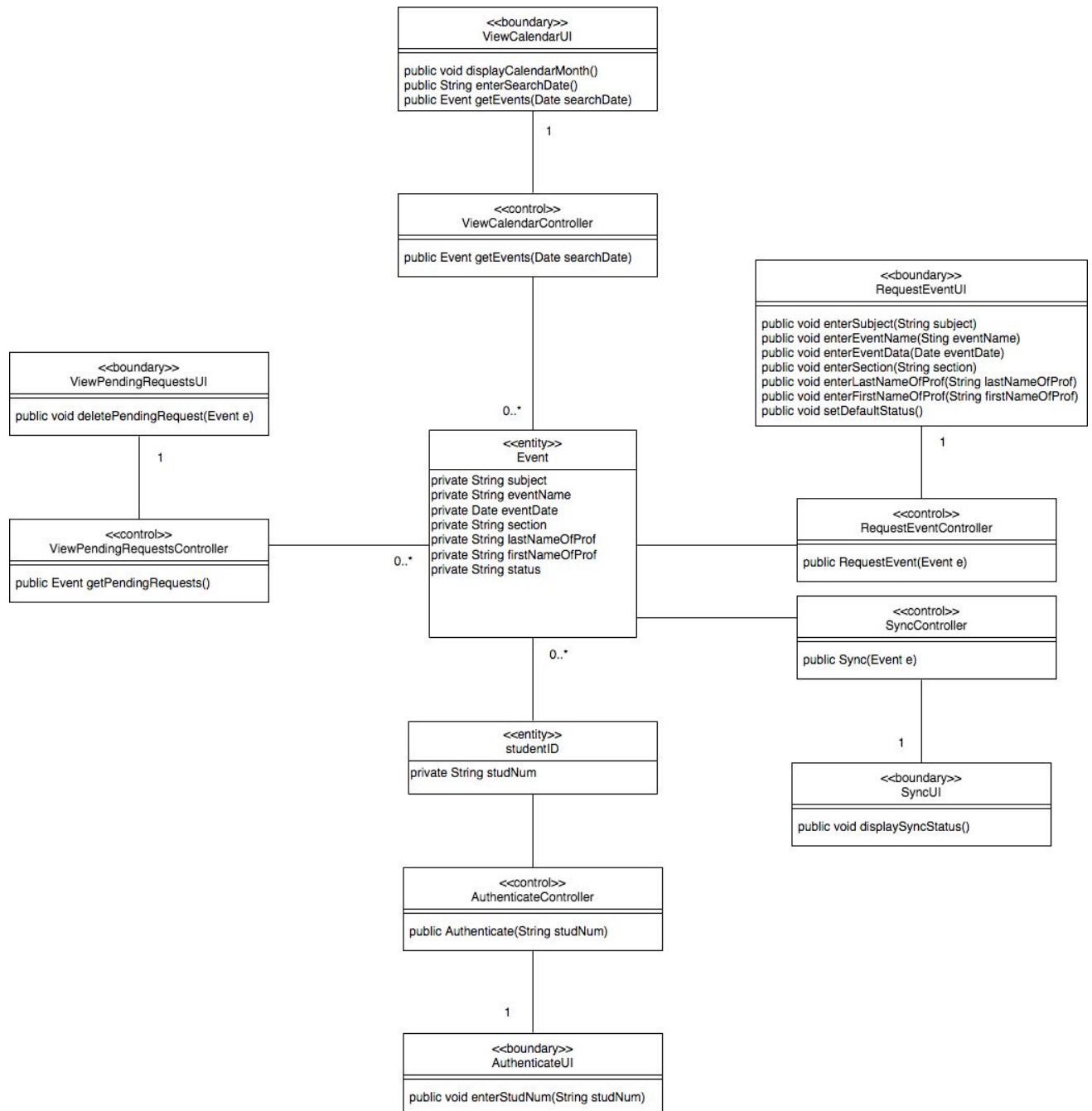
Audience:

This document is useful for developers who would like to extend the mobile application in the future.

System Name: DCS Codex Mobile Application System

Description: DCS Codex is a mobile application for the calendar of events related to the Department of Computer Science (such as MP deadlines and exam dates for each subject). The administrator of the application adds an event to the calendar via direct manipulation of the database after approving a request from the user. Students can view the calendar of events. They can also request for additional events to be added and view the status of their pending requests.

Class Diagram:



Boundary Classes:

Class Name	Description
ViewCalendarUI	This interface shows the Calendar of the current Month. The student can pick a certain date among the pool of dates shown in the Calendar; month, day, and year are needed. List of events will be displayed (if there's any) as soon as the student clicks the date picked.
RequestEventUI	This interface lets the student enter necessary information for the requested event. It includes the subject, name of event, date of event, section, and the name of instructor/professor who handles the class.
ViewPendingRequestsUI	This interface shows the pending requests of the student. Details of the events and the status of each are displayed. There is the delete option which lets the student delete an event in the pending requests after the status has gone from "Not yet assessed"(default status) to "Rejected".
SyncUI	This interface lets the student know the status of synchronization to the database as the sync button is clicked. If there's no internet connection, the system will prompt the student. If the synchronization is successful, the message "Sync Complete" shall be displayed.
AuthenticateUI	This interface shall be encountered at the first use of the mobile application. It's like a gate pass for the access of main functionalities of the mobile application. It prompts the student to enter his/her student number.

Control Classes:

Class Name	Description
ViewCalendarController	This control class enables the student to select a date among those shown in the Calendar of the current month in order to view events related to that date.
RequestEventController	This control class enables the student to request an event to the administrator.
ViewPendingRequestsController	This control class enabled the student to view his/her pending requests and the status of each.
SyncController	This control class enables the student to send unsent event requests to the database.
AuthenticateController	This control class enables the student to enter his/her student number which will then serve as student ID for whoever is using the mobile application.

Entity Classes:

Class Name	Description
Event	This entity contains details about the event to be requested. It includes the subject, name of event, date of event, section, and the name of instructor/professor who handles the class.
studentID	This serves as an identification for whoever uses the mobile application. It contains the student number of the user.