DCS Codex Mobile App
Software Architecture

Submitted to:

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Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
11/26/17	Borja, Kim	1.0	Initial Document
12/1/17	Pilipina, Jigger	2.0	Added data design class descriptions
2/8/18	Valencia, Ian Benedict	3.0	Added AuthenticationUI, Authentication Controller, and Users

Purpose:

This serves as a Software Architecture documentation of the DCS Codex Mobile App.
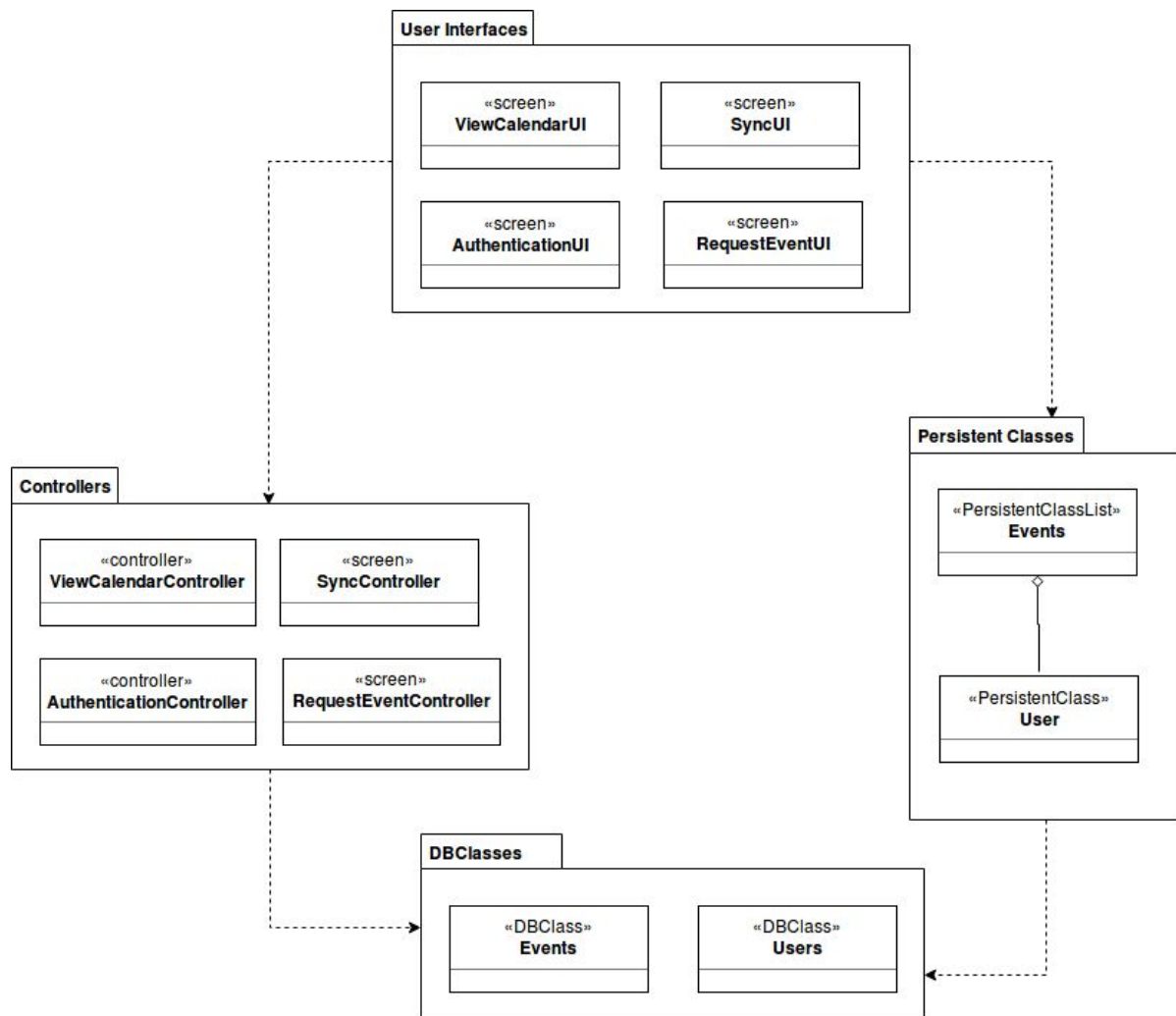
Audience:

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

System Name: DCS Codex Mobile App System

Description: The purpose of this project is to create 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.

Software Architecture Diagram:

User Interface Design Classes:

Screen 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.
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.
AuthenticationUI	This interface lets the student login to their account only if they are already registered. Students can also register through this interface.

Business Logic Classes:

Control	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.
SyncController	This control class enables the student to send unsent event requests to the database.
AuthenticationUI	This control class enables the student to register and add an account to the database and login through those information in the database.

Data Design Classes:

Class Name	Description
DBEvents	This class holds the list of all events approved by the administrators or directly added by the administrators themselves and pending event requests from users.
User	This class allows the viewing of the calendar, requesting of events, and syncing local data to the database.