

# **DCS Codex Mobile App**

## **Software Architecture**

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

In partial fulfillment of Academic Requirements  
for the course  
CS 191 Software Engineering I  
of the  
1<sup>st</sup> Semester, AY 2017-2018

## **Revision Control**

### *History Revision:*

<b>Revision Date</b>	<b>Person Responsible</b>	<b>Version Number</b>	<b>Modification</b>
11/26/17	Borja, Kim	1.0	Initial Document
12/1/17	Pilipina, Jigger	2.0	Added data design class descriptions

### **Purpose:**

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

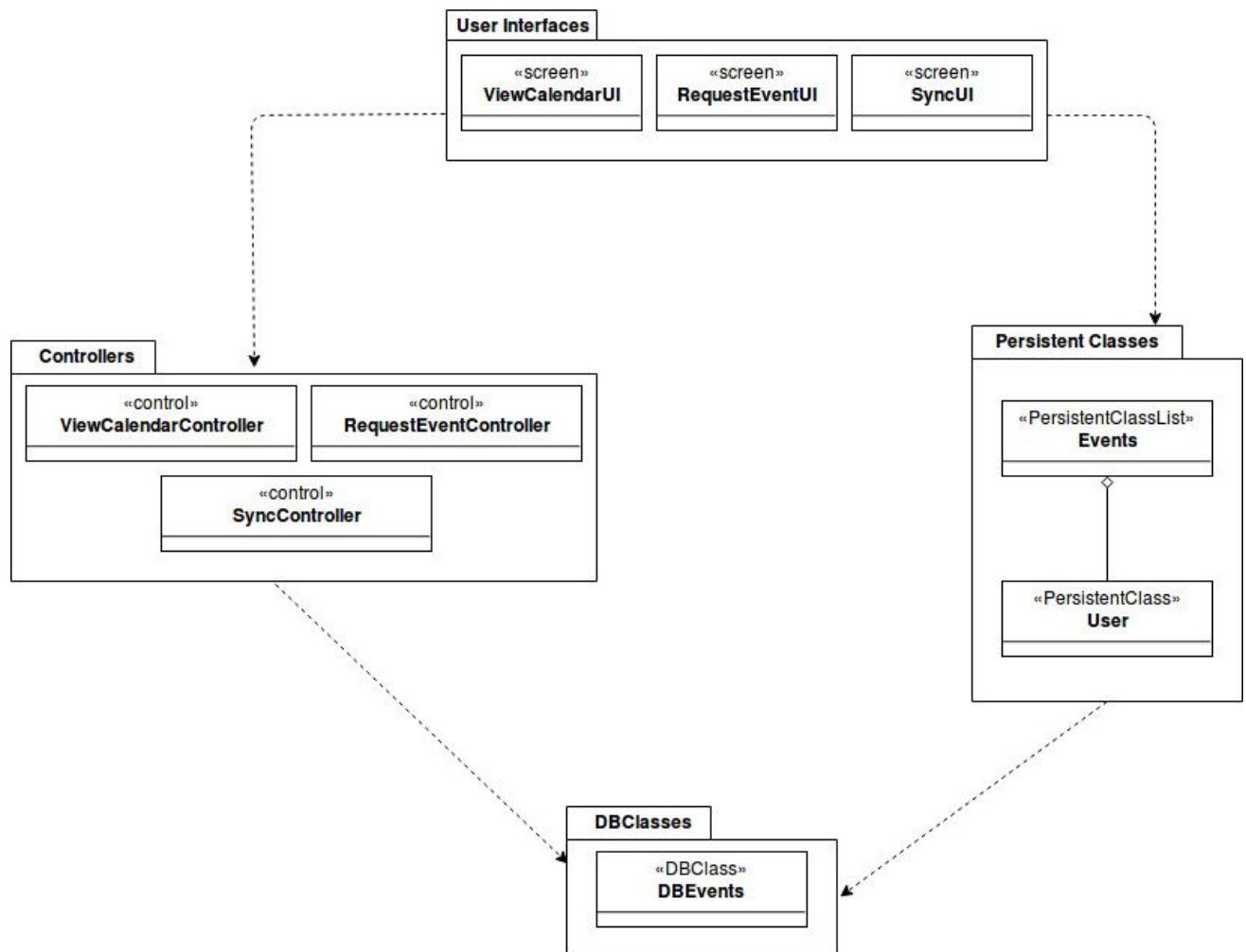
### **Audience:**

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.

*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.

*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.