



COLLEGE OF SCIENCE & HEALTH

School of Computing

Bachelor of Science (Honours) in Computer Science (Infrastructure)

Programme Code: DT211C

YEAR 3

Mobile Software Development

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Assignment Title	Design Document
Date Due	07 November 2016
Date Submitted	07 November 2016

DECLARATION

I hereby certify that the material, which is submitted in this assignment/project, is entirely my own work and has not been submitted for any academic assessment other than as part fulfilment of the assessment procedures for the programme DT211C - BSc. Computer Science (Infrastructure).

Students Signature:

A handwritten signature in black ink, appearing to read 'Nigley Chimezie', written in a cursive style.

Date:

07 November 2016

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App Description

SqulBox App

My application, named SqulBox, will be a basic but useful app that will Allow a student:

- Keep track of personal related academic information (i.e. Student Number, email, GPA, best grade etc)
- Add grades throughout their academic studies.



Fig. 1 - SqulBox App Logo

Rather than logging into various apps to check grades or other personal information that may sometimes be forgotten, especially as a fresher, SqulBox will be a one stop location for students to store and access these basic academic data about themselves.

Special features/functionality

1. Interaction with the user's device photo gallery and camera to enable the user to add a profile picture.

Design Prototype & Screen Flow

Screens & Dialog Boxes

- Home (MainActivity)
- Profile
 - Add or Edit Info
- Grades
 - Add or Edit Grade
- Settings

Home (MainActivity)

The home screen will be the main activity for my app. The main functionality of the home screen is to categorise links to **Profile**, **Grades & Settings** activities in one location using icon images that are more appealing to the user. The home screen will also display a welcome message specific to the user's profile.

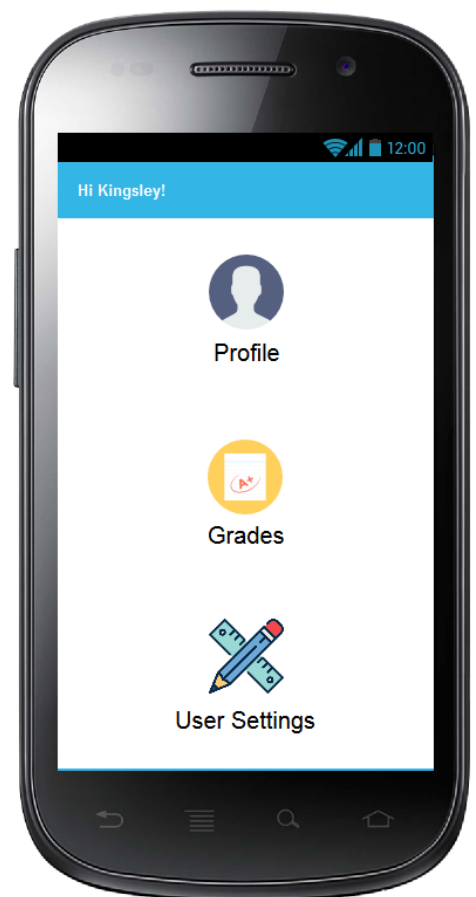


Fig. 2 - Home Screen

Profile

The screen will display the user's personal student academic information in a list view and a profile image. New information can be added to the list by tapping the plus icon, which will then prompt the [AddEditInfo](#) dialog box for the user to enter a **Title & Description**. The user can edit the profile picture or a list by long pressing the particular item, this will then prompt the [AddEditInfo](#) dialog box, or the device's photo gallery or camera if editing the profile picture.

The Name and GPA title are already predefined to the App. Anything else will be added by the user.

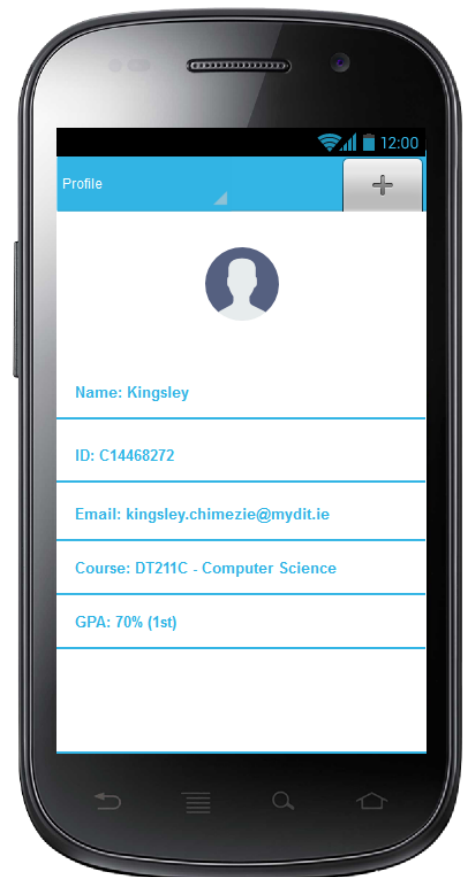


Fig. 3 - Profile Screen

Add or Edit Info

A dialog box to add or edit profile information. If the user taps the plus button, then a default input will show in the input field. If the user long presses a list item in order to edit it, then the information from the list item will show in the input field.

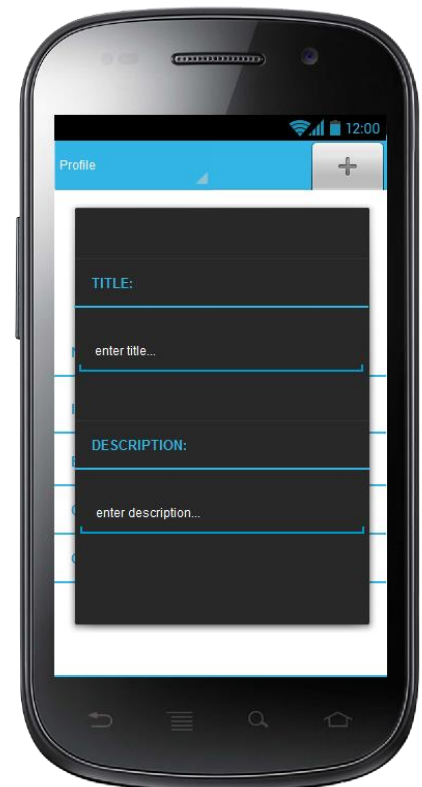


Fig. 4 - Add or Edit Profile Dialog Box

Grades

This screen will display the user's subject, percentage scored and a marks badge will automatically generate depending on the percentage mark. To add a grade, the user must tap the plus button.

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Fig. 5 - Grades Screen

Add or Edit Grades

A dialog box to add or edit Grades information. If the user taps the plus button, then a default input will show in the input field. If the user long presses a list item in order to edit it, then the information from the list item will show in the input field.

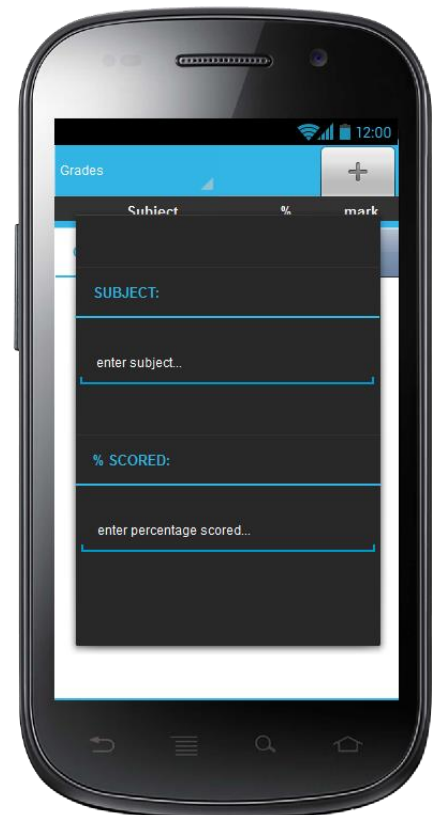
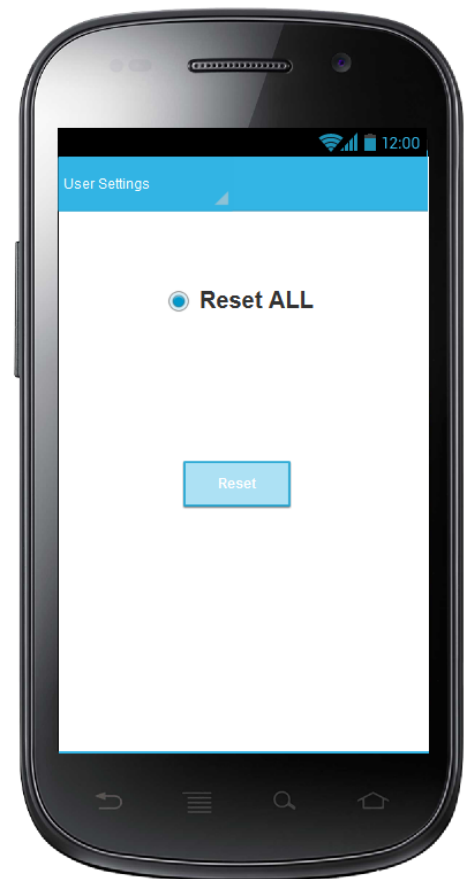


Fig. 6 - Add or Edit Grades Dialog Box

Settings

The settings screen will allow the user to delete all information in the database. The user must first check the radio button for confirmation and then click the reset button. The user cannot delete all information unless the radio button is checked. The user will be returned to the home screen if the reset is successful



Database Description

Tables & Fields

Table name:	PROFILE	The Profile screen will use this table in the SqlBox database to store a student's profile information.
Attributes:	Title Description	
Primary Key:	*Title	

Table name:	Grades	The Grades screen will use this table in the SqlBox database to store a student's grades information.
Attributes:	Subject Percent_Score	
Primary Key:	*Subject	