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| CIS2250 Advanced OOP |

Project Requirements

CIS Flowers

AYR 20202021

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# 1.0 Overview

Welcome to the CIS2250 project. It will require implementation of the basic outcomes of the course. The project must work with the environment for the CIS development team. The system code will adhere to CIS standards. This includes naming and commenting conventions. The project should follow an object-oriented design with packages used to organize classes. These are constraints put on the development based on the organizational standards.

This project will provide a mobile application counterpart to a web application. This project will provide a mobile application which will allow various functions to be performed related to the flower shop business. The various functions to be provided will be outlined in the primary functions section of this document. The application must be created as specified in this document. These are the basic requirements. These must be provided but if you have other ideas you can also add them.

# Architecture

A screenshot of a video game

Description automatically generated

# 2.0 Primary Functions

## 2.1 Welcome Page

When the application starts it must provide a welcome page. Included on this page must be a carousel of images related to the application that can be viewed by swiping left or right. There should be four images minimum which can be taken from online resources.

## 2.1 Material Design

The look and feel is to follow the material design principles. A color scheme must be chosen, implemented in resources as a style and implemented consistently throughout the app. At least two different types of layouts must be used in the application.

## 2.2 Menu

### 2.2.1 Navigation Drawer (or other layout option if approved)

A Navigation drawer launched from a hamburger menu from the top left is to be used to access the main functionality of the app. This should be like that implemented on the Gmail app. The options for the navigation drawer should allow the user to go home to the welcome screen or to the main functionality screen.

### 2.2.2 Menu

A menu should be provided on the top right which provides a help and about options.

## 2.3 Social media sharing.

The application should allow sharing with Twitter, Facebook, or email. App related information should be provided to the Intent.

## 2.4 Services

The data for the application is contained on the web application server. This information should be obtained from the web application server if there is a network connection. The sample web application has web services available which must be used to get the information. The web application source code is available in the project Bitbucket repository.

When the application is launched and there is a network connection a database on the device should be updated from the data. This should use Room or SQLite database and it should be updated with the information provided from the web services. When there is no network connection the local device data source should be used to populate the lists and detail pages for the application.

Services

* We can add more services if needed but will try to stick with the services provided.
* URL to access localhost on your pc from the emulator.
  + 10.0.2.2:8080/rest/api

### 2.4.1 Display Data

* The app should have a screen which has some information from the web application.
* A separate layout should be implemented for a larger screen and a small screen.

## 2.5 Content Provider

There should be a mechanism in place to allow the user to choose to update using an existing content provider on their device (example: calendar/contacts).

## 2.6 Menu for About and Help

The app should have a menu (See Material design). The about option should describe the app and the help option should provide details about how to use the app. Each should give a description in a few paragraphs.

# 3.0 Other requirements

## 3.1 Mandatory

* Splash / loading screen
* A toast / or snack bar
* Two activities minimum are provided (or two fragments)
* Custom icon used which includes your initials (or some way to identify it is yours)

## 3.2 Two additional components to be added to the app (Examples below):

* Fingerprint access
* RFID Tag
* Google Maps integration
* Voice integration
* Camera integration
* other... if you are interested in a different additional component just make the suggestion.