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| **Project Title Subtitle** |

**Supervisors:**

Ib Havn

Erland Ketil Larsen

Kasper Knop Rasmussen

Knud Erik Rasmussen

Lars Bech Sørensen

**Students:**Josipa Babic – 266757

Eduard Nicolae Costea -266078

Diyar Hussein Hussein – 266352

Kenneth Ulrik Petersen – 269379

Angel Iliyanov Petrov – 266489

Remedios Pastor Molines – 266100

Ionel-Cristinel Putinica – 266123

Erika Monica- Szasz- 280201

Christian Schou Sørensen – 267142

Mihai Tirtara - 266097

**[Number of characters]**

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# Abstract

Owning plants requires a fair level of care and attention. For the purpose of simplifying plant tending, monitoring the external conditions of the plant such as the air humidity and temperature could play a key factor in providing it with the right care that includes tasks such as watering the plant and turning up the heat. The system that is the subject of this project has been designed from scratch in order to facilitate the growth and maintenance of plants. This project report has the purpose of describing all the methods, stages and iterations that went into implementation of this project, using Java, C, C# as the main programming languages.

The system has been fully designed with the end-user experience in mind, the purpose being to make the process of keeping track of the external conditions of plants as easy as possible and allow actions such as watering the plants remotely. The entire system was designed in three parts, by three different groups, with each one of them focusing on different tasks: Data Engineering, Embedded programming and the development of the Android Application.

# Introduction

When deciding to own plants, people should first consider what kinds of plants work best with their lifestyle and environment and what is the maintenance level required to keep the plants in a good condition. Indoor plants can be a great addition to homes because they present a multitude of benefits such as improving air quality by removing carbon dioxide while providing extra oxygen and the exposure to them reduces stress levels, boosts mental health, calms anxiety and lowers blood pressure. Also, they improve productivity and concentration, which is great for people who work from home and need a boost to focus on the work at hand. Plus, they help regulate humidity and increase levels of positivity. It is equally important to mention that plants can help diversify bacteria in our bodies to fight infections and allergies which is very crucial for city dwellers who are less likely to be exposed to nature daily, therefore their immunity can be influenced negatively without the presence of indoor greenery (Tobebright, 2018).

There is a multitude of benefits and positive aspects to owning plants, but there are some downsides as well. The responsibility of keeping a plant alive might not be very easy. Monitoring the external conditions of a plant and controlling them remotely through a system of sensors and actuators that notify the user about the current status of the plant is the subject of this project.

The developed product can be defined as 3 systems, all of which communicate to each other to a certain extent. The team took the task of developing an application, with requirements related to the programming languages that have to be used, the sensors that the embedded tier must use. This set some boundaries and limitations over what the group came up with as far as design went, but still there was a good amount of opportunities for creativity, inventiveness and originality.

# Requirements

The purpose of the requirement section is to define functional and non-functional requirements. Requirements are perceived as a contract with the stakeholders (customer), and are specified to ensure a common understanding.

Identify the users and describe their roles (e.g. actor descriptions, personas and scenarios).

Note: Remember that all requirements must be precise and testable.

Use the SMART principle (YourCoach n.d.) and MoSCoW (Business Analyst Learnings 2013).

Present a numbered and prioritised list of all the requirements of the users, customer and stakeholders for the project.

## Functional Requirements

Functional requirements could be described with Use Cases, Use Case descriptions and Actor descriptions. Use Case descriptions can be detailed with different types of UML diagrams.

## Non-Functional Requirements

There are no standards for describing non-functional requirements. You can find a useful checklist here (Banger 2014).For content see Appendix 3 “Project Report – VIA Engineering Guidelines”.

# Analysis

The purpose of the analysis section is to outline an understanding of the problem domain and specifically WHAT the stakeholders want. Here, you elaborate on your background description.

You identify objects in the problem domain that will be involved in the solution and how these objects cooperate. The result of this analysis is a Domain Model (Larman 2004, chap.9) and other relevant diagrams.

Use the UML standard for all diagrams where relevant.

Note: Remember that all implementation dependent objects are not part of the domain model only conceptual classes related to the requirements and the domain.

# Design

The purpose of this part is to define the architecture, technologies, design patterns and UI choosing of the system. For a better explanation, this part contains several pictures of class diagrams and sequence diagram.

Regarding the requirements of SEP4, the project was divided in three main sections, each having different specifications.

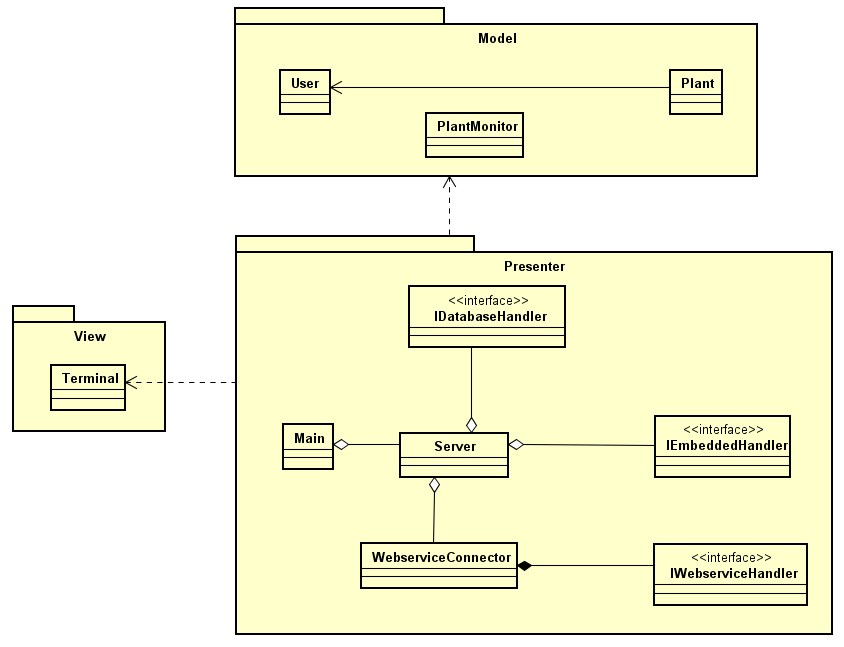
## Class Diagram

## Sequence Diagram

## IoT Implementation Design

**Bridge Application**

The bridge application consists of three handlers which will deal with the communication in each of the three parts of the system: the embedded system, the database and the webservice.



*Figure 1 in IoT – Bridge Application*

The communication with the database uses the MongoDB driver.

The communication with the embedded system is through a Socket protocol as well as the webservice.

The model classes are used to encapsulate data for users, plant profiles and plant sensors respectively.

The WebserviceConnector maintains the socket connection to the web service and uses the IWebServiceHandler to perform actions matching the protocol commands and writes a response to the socket.

The socket communication is based on json and the model objects are serialized to json and sent over the socket connection. The protocol for communication is as follows:

|  |  |
| --- | --- |
| **Message** | **Response** |
| getuser:id | json/null |
| adduser:json | id/null |
| modifyuser:json | true/false |
| removeuser:id | true/false |
| getplant:id | json/null |
| addplant:json | id/null |
| modifyplant:json | true/false |
| removeplant:id | true/false |
| getplantmonitor:id | json/null |

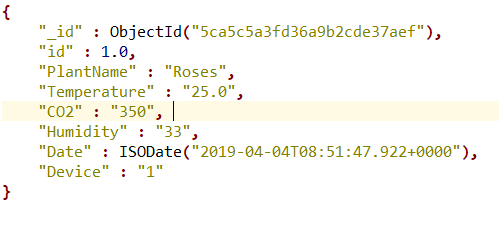
Zero byte is used for delimiting the individual messages and responses. All messages and responses are UTF-8 text.

## Data

**Cloud Based Data**

IoT system needs to exchange data with android application. To make it possible cloud-based database were necessary. MongoDB is chosen in this case and it fulfils all requirements. MongoDB is NoSql database program, it uses JSON like documents.

The collections are going to be caped. Caped collections support fixed-size collections. This type of collection maintains insertion order and, once the specified size has been reached, behaves like a circular queue. Capped collections will help with limited available space in the cloud.

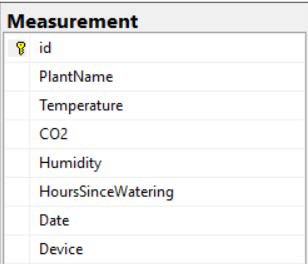


*Figure 1 in Data - Document in MongoDB*

**SQL Server**

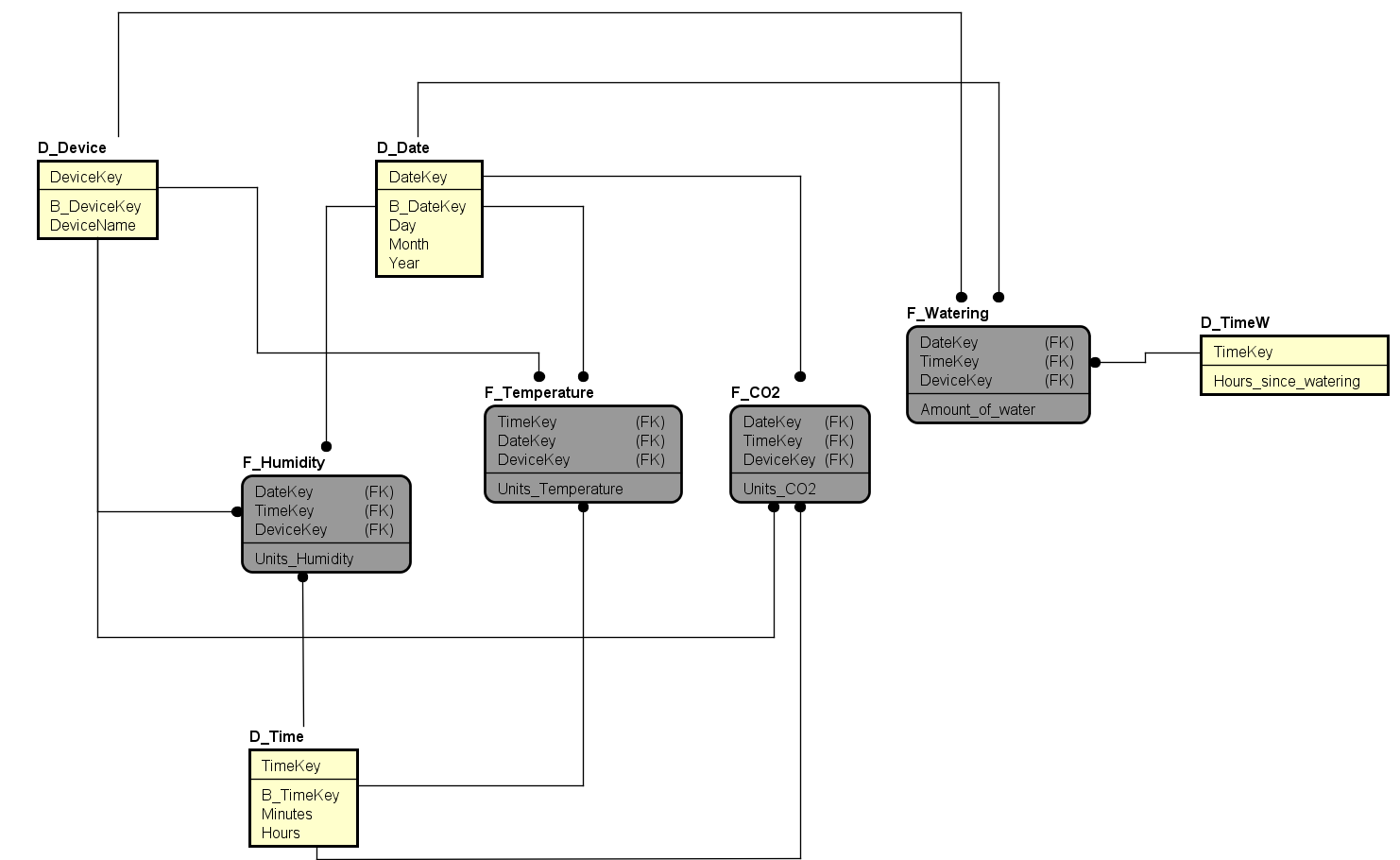
A document will be presented in the following format. It will contain the values of all sensors: temperature, CO2, humidity and watering since, as well as id plant name, date and device.

Data from MongoDB should have backup in Microsoft SQL Server. The main purpose of Server is to store all data from the sensors. The data from the MongoDB should be stored in a transactional database that serves as the source database for the ETL process.



*Figure 2 in Data - Source Transactional Database*

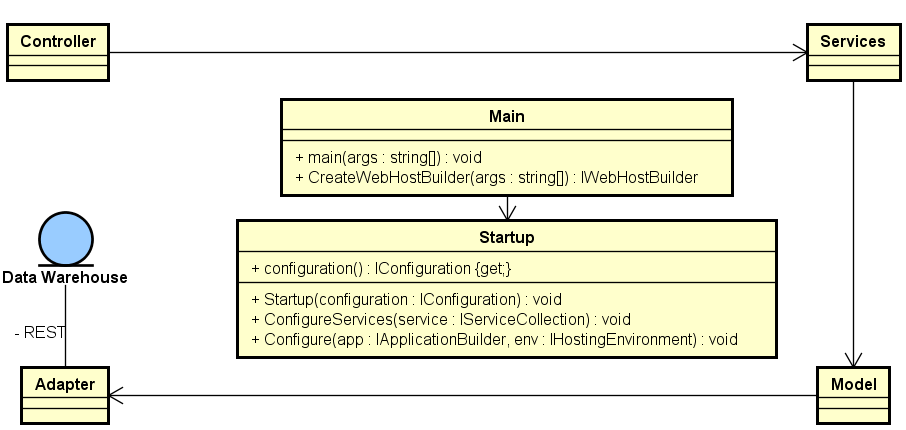
The source database follows the structure from Figure 2. based on the structure the dimensional model is created. For the temperature the grain is units of temperature. For displaying temperature information’s about time, date and device are needed. For displaying watering, the information when was the last time of watering, date and device were needed. The grain is amount of water.



*Figure 3 in Data - Temperature Dimensional Model*

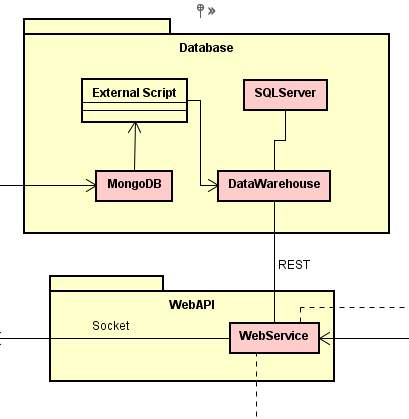
There are four dimensions in our database. The date, device, time and time of watering. These dimensions allow us to look for more specific details. The date dimension allows looking for the date or more specifically for month or day. The time dimension is separated from date dimension, so users can look for specific information at specific hour or minute. The device dimension helps to identify from which sensor information is coming. The dimension watering clearly represents when was the last time that plant was watered.

**Web API**



*Figure 4 in Data - Diagram for API Design*

1. The API makes use of rest server node.js



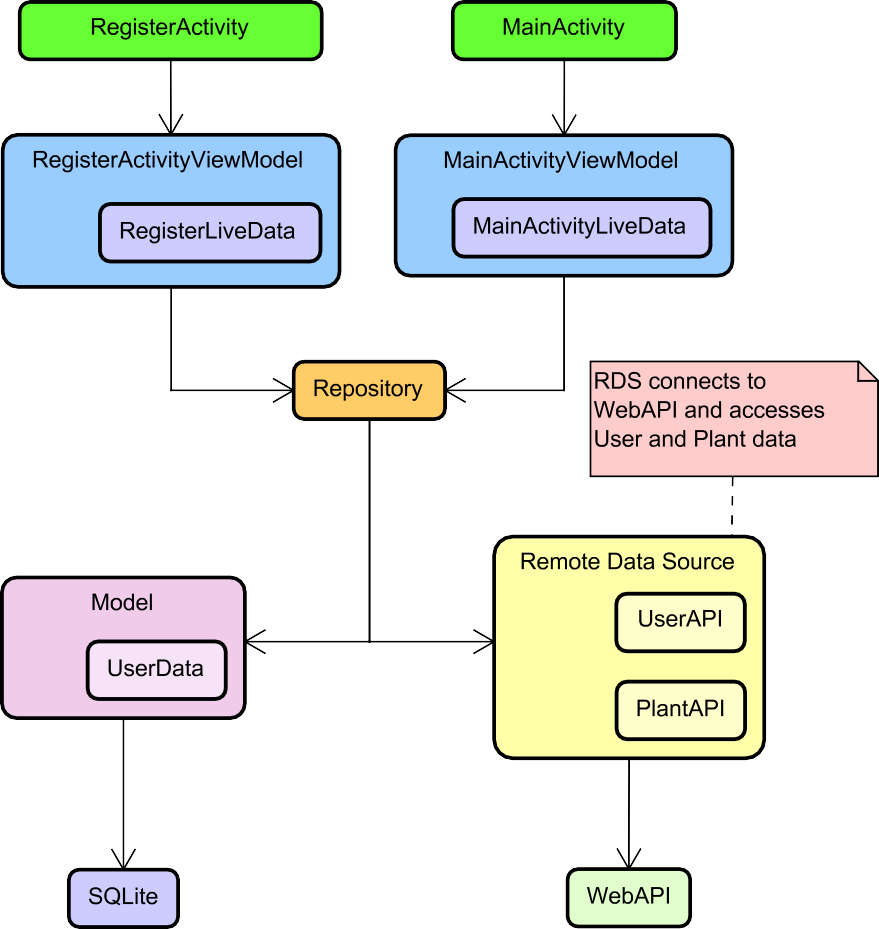
*Figure 5 in Data - Data - Part of an IoT System*

A result of the design is Figure 5 which is part of the bigger picture that consists the IoT System.

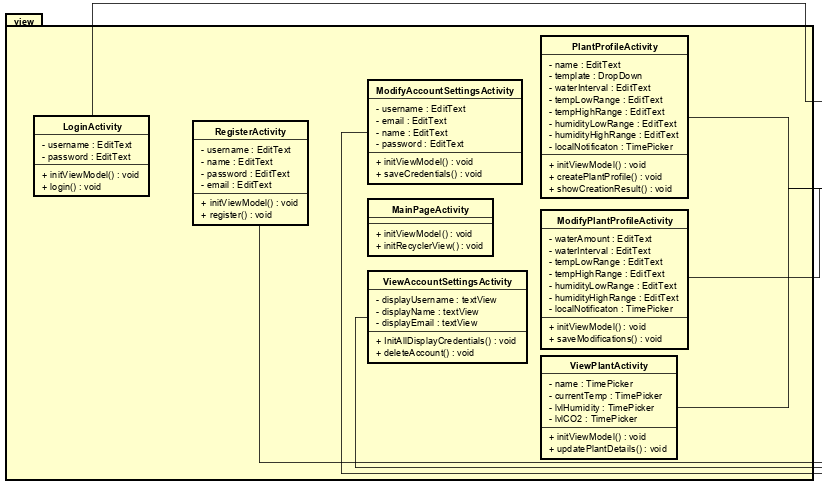
## Android Application

The responsibility of the Android application is to grant the end-user the possibility to control a plants’ environmental conditions. A user has the possibility to register and thus login afterwards. This gives them access to sections where they are able to see the list of their associated plants, they can register new plants and modify their account and profile settings.

The implementation of the application follows the MVVM – Model-View – ViewModel system architecture. The following diagram represents the use of MVVM:

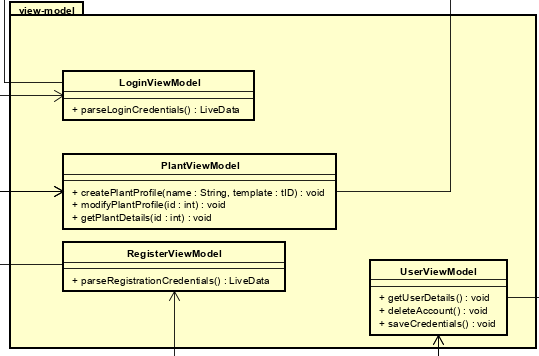


*Figure 1 in Android – MVVM Architecture Diagram (Simplified Architecture Class Diagram)*



*Figure 2 in Android - Design of MVVM Architecture Diagram – View*

In the View, there are the view controllers that are responsible for handling the View elements and updating them. The view is using ViewModels that are in the view-model package to perform actions in the system. ViewAccountSettingsActivity and ModifyAccountSettingsActivity are responsible for presenting the users’ details and making changes to them. PlantProfileActivity is responsible for creating the plant profile. ViewPlantActivity has the purpose of displaying plant data, whilst ModifyPlantProfileActivity changes only the waterAmount, waterInterval attributes as well as the temperature and humidity low-high ranges.



*Figure 3 in Android - Design of MVVM Architecture Diagram – View-Model*

The view-model’s purpose is to handle actions from the view and to serve as a bridge between the view and the model. All view-models pass data to their respective associated repositories. UserViewModel handles operations for user-related activities, PlantViewModel from plant related activities and finally, Login/RegisterViewModel – user specific credentials.

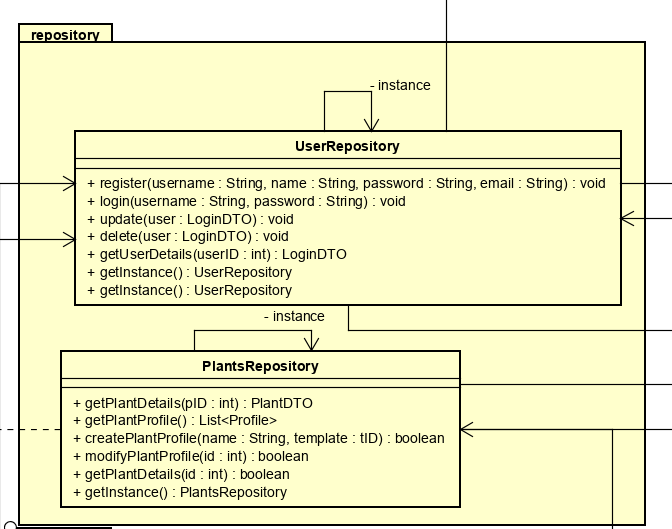
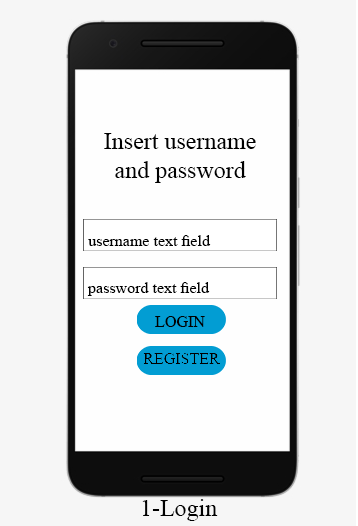


Figure 1 in Android - Design of MVVM Architecture Diagram – Repository

The repositories in the design implementation serve as a facade to the database and WebAPI. The User and Plants repositories are handling CRUD operations on model entities. They implement Singleton design pattern to ensure that there is only one instance of the mentioned repositories in the system. The repositories are using DTOs from the model to exchange data with the WebAPI.

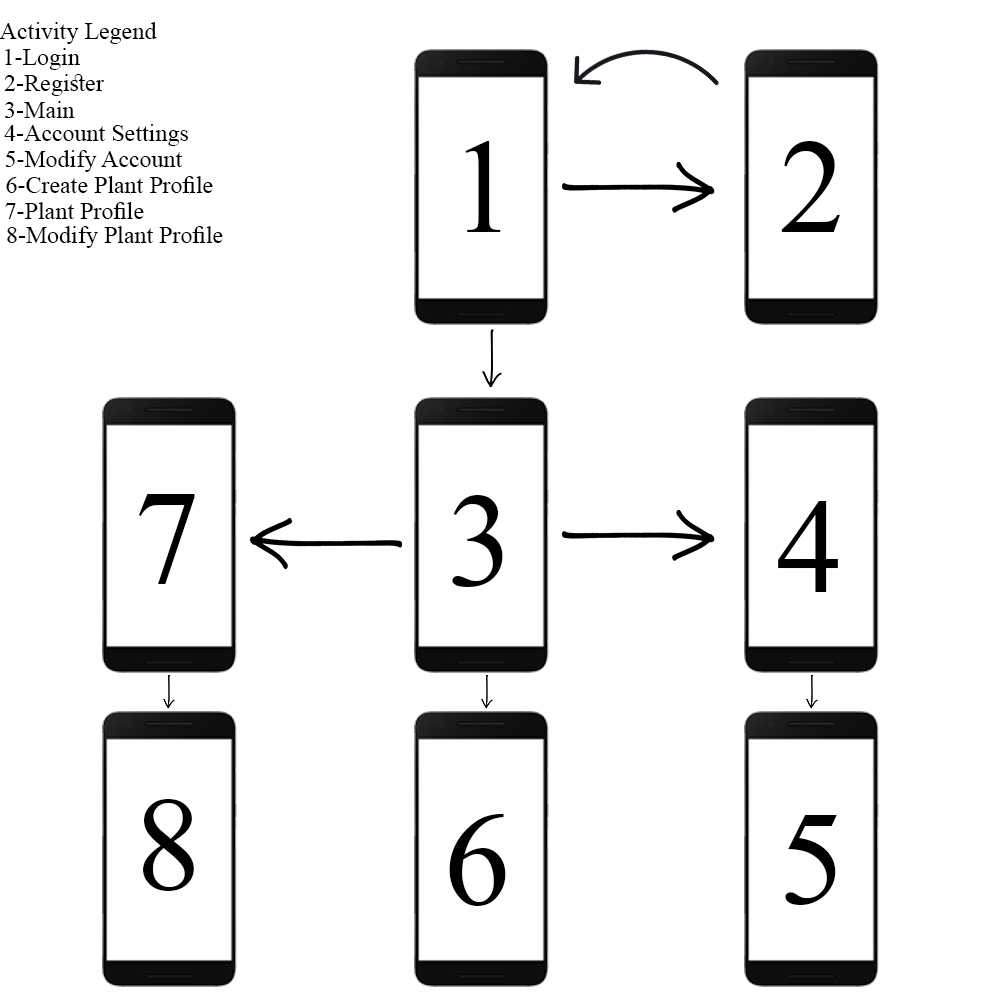
**UI Design and Navigation**

From the early stages of the project, the main focuses regarding the User Interface were to make every layout of every single activity in the Android Application simple, intuitive and eye-catching. In the Design phase, the Android group designed sketches of the layouts.



As it can be seen from the above represented sketches, the layouts have been designed to be as simple and straight forward as possible. Along with the layouts sketches, the group designed an interaction diagram for all the layouts, which has the sole purpose of giving a better understanding of how the flow of events in the application works.

As it can be seen from the interaction diagram, there are 8 activities that the application uses: **Login**, **Register**, the **Main activity**, **Account Settings**, **Modify Account**, **Create Plant Profile**, **View Plant Profile** and **Modify Plant Profile**.



**Login Activity**

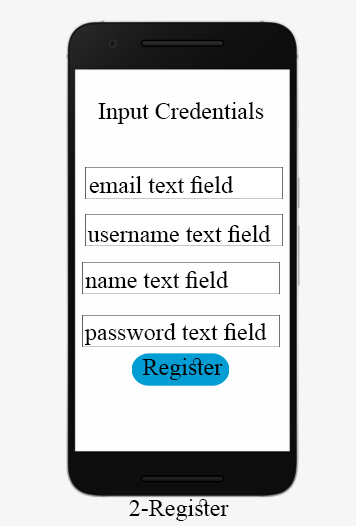
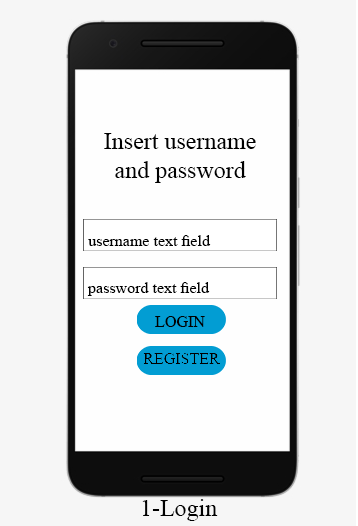
The **Login activity** is the one that the user is prompted with when first opening the application. From this activity, the user has two options:

1. Input his login details of a previously created account and then press the “Login” button, from which he will be sent to the **Main Activity.**

2. Press on the “Register” button, getting sent to the **Register activity** where he is able to create a new account.

**Register Activity**

The **Register activity** is oversimplified and it allows the user to input four text fields with his account details: username, email, name and password, after which the user presses the “Register” button which prompts him back to the **Login activity.**

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**Main Activity**

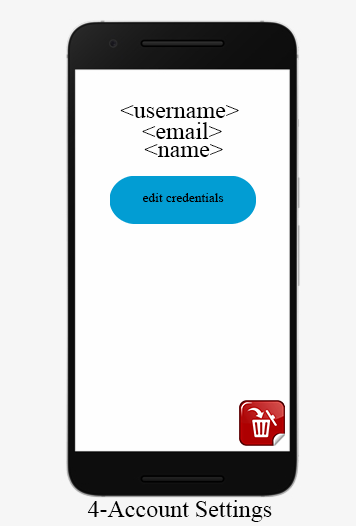
The **Main activity** displays a custom welcome message for the user, based on his name that he inputted when he created his account, and below that it displays a list with plants. This activity also features a bottom navigation bar, which is also present in all the other activities, apart from the **Login** and the **Register** ones, with 3 options:

* The button on the right sends the user to the **Account Settings activity**
* The option in the middle has the purpose of sending the user to the **Main activity**
* The option in the left redirects the user to the **Create Plant Profile activity**

One last thing the user can do from the **Main activity** is to click on one of the existing plant profiles, which sends the user to the **View Plant Profile activity**

**Account Settings Activity**

In the **Account Settings activity**, the username, email and name of the user are displayed on top, along with an “Edit credentials” button, which, if pressed, sends the user to the **Modify Account activity**. This activity encloses a “Delete Profile” button, which will delete all the data of the user from the database, including the login details.



**Modify Account Activity**

In the **Modify Account activity**, the user has 4 text fields where he can input his new details, in the case he wishes to change any, and then a save button, that, if pressed, saves and updates all the new data in the database.

**Create Plant Profile**

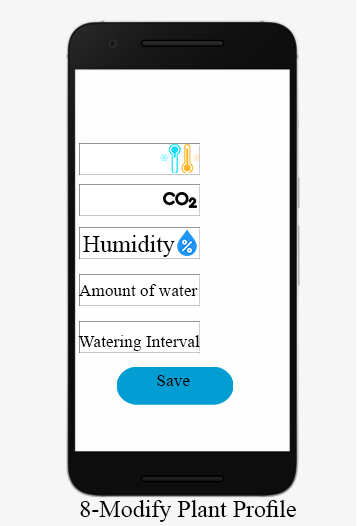
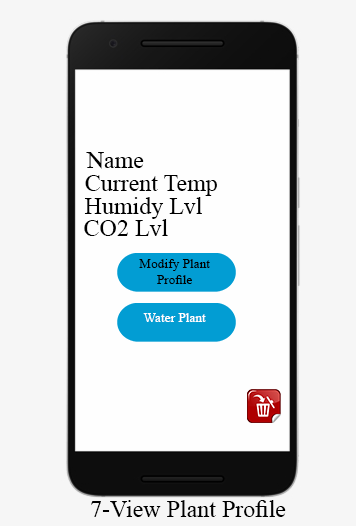
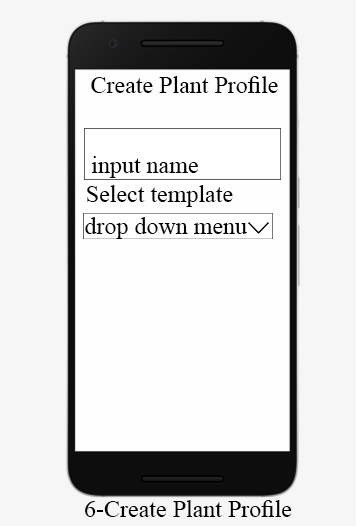
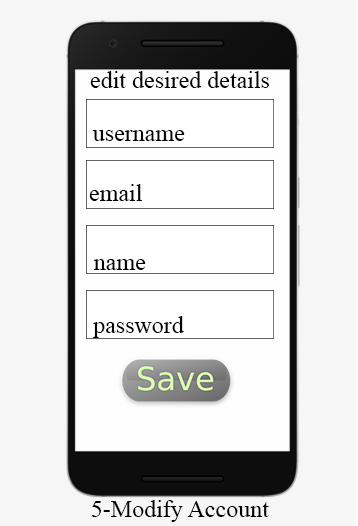
In the **Create Plant Profile activity**, the user is given to option to create a plant. He has to input a name for the Plant, and, in addition to this, he can select a predefined plant template (which defines the ranges of the temperature, humidity and carbon dioxide) from a drop down list.

**View Plant Profile**

In the **View Plant Profile activity**, the application displays the name of the plant, the current external temperature, the humidity level and also the CO2 level. There is also a “Modify Plant Profile” button, that the user can press, which sends him to the **Modify Plant profile Activity**. This activity also features a “Water Plant” button that can be pressed to remotely water the plant. Lastly, a delete button also appears in the bottom of the activity, which can be pressed to delete all the data regarding that certain plant from the database and remove it from the system.

**Modify Plant Profile**

In the **Modify Plant Profile activity**, there are multiple text fields, where the user is able to change the temperature range, the CO2 level, the humidity level, the amount of water and the watering interval. For the changes to apply to the database, the user has to press the “Save Button”.

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# Implementation

## IoT

## Data Engineering

## Interactive Media

**Application architecture**

Architecture was a main concern when the application was designed, as it represents the foundation for an app that is well maintainable, scalable and reliable. The aspects taken into account when deciding on an architectural pattern where the separation of concerns, the code reusability, testability and independence. Even though the term “good architecture” may sound slightly abstract, having these concerns in mind, the MVVM architecture was chosen for this project. It maintains a clear separation between application logic and the UI, therefore addressing numerous development issues and making the application easier to test and maintain. The emphasis is put on dividing the responsibilities, so the UI components are separated from the business logic and the business logic is separated from the data access.

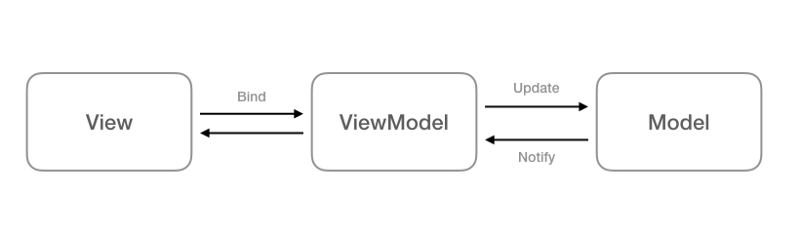
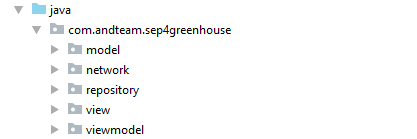
There are three core components in the MVVM pattern: the Model, the View and the ViewModel, each serving a distinct purpose. The figure below illustrates the relation between the components:

Figure 1 Data flow in MVVM

The ViewModel isolates the View from the Model, so it receives its data from the Model and exposes the data and command objects that the View requests. The Model is unaware of the ViewModel and the ViewModel is unaware of the View.

In the figure below, how the MVVM pattern was related to the application can be observed:



**The Model** represents the actual data that is dealt with in the application but it does not hold behaviors or services that manipulate the information. It does not have anything to do with the UI or with fetching any data. Business logic is kept separate from the Model as it belongs to other classes that act on the model.

**The View** is responsible for the structure and appearance of what the user sees on the screen. Each view is defined in an XML file containing code without any business logic. The View retrieves its data from the ViewModel thorough the use of binding.

**The ViewModel** is the component that connects the View to the Model by accessing the methods and properties of the Model that are then made available to the View.

**Firebase authentication**

Firebase is a platform that allows the development of web and mobile applications without server-side programming and it provides a series of built-in services. Firebase Authentication is very easy and quick to implement, has autoscaling built-in and provides real-time updates. It automatically stores users’ credentials securely by using bcrypt and it separates this sensitive user information from the application’s data.

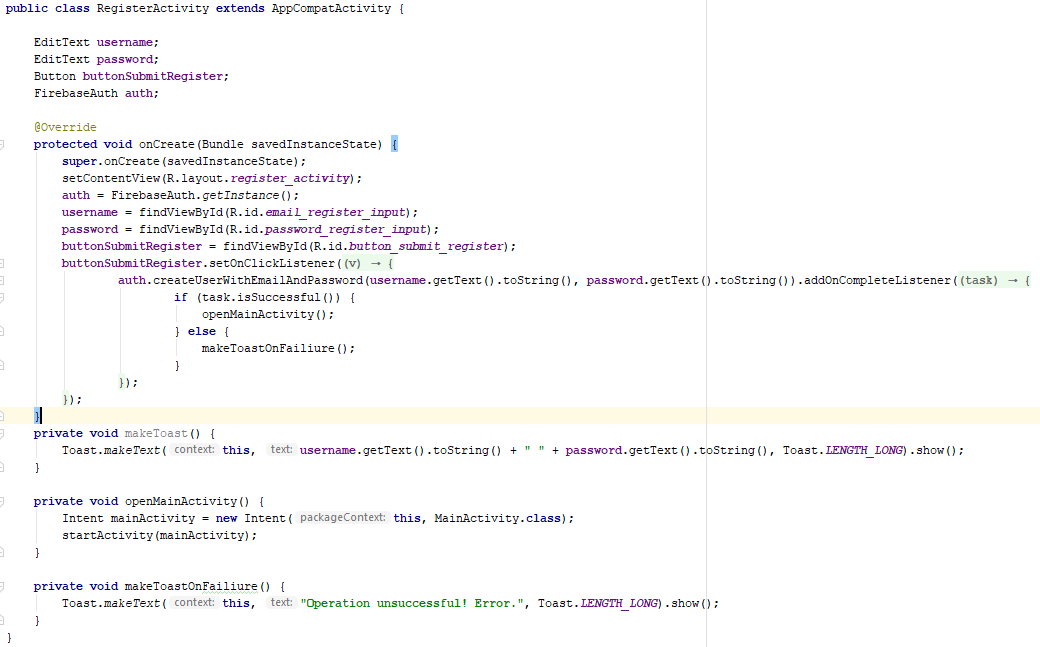
Setting up Firebase is a very intuitive, fast and easy process. Everything was set up by using a google account, creating a new project and adding a new app to it. For the authentication, the email/password sign-in method was enabled.

The main activity opens the app in the login screen where existing users can log in and new users can register. The logic behind the login activity and its connection to Firebase can be observed in the screenshot below.

The layout is set for this activity and the input fields and the buttons are identified. For the Register button an on click listener is attached which runs the method that opens the Register activity.

When the login button is pressed, the user data from the input fields is compared to the Firebase database and if the user was registered, the Main Activity opens up. Otherwise, an error message will be displayed on the screen.

The logic behind the Register activity is presented in the image below. Once the Firebase connection has been established and the layout was set, on the press of the “submit register” button, the user credentials are sent to the Firebase database and the Main activity starts. In the eventuality of a failed registration, an error message is displayed on the screen.



**The bottom navigation bar**

The bottom navigation bar makes it easy to explore and switch between views. It is convenient to use in cases where there are three to five top-level navigation items of alike importance as it will be omnipresent no matter which view was selected. For the app’s bottom navigation bar there are three main navigation items that correspond to Adding a new plant, Viewing the current list of plants and Modifying the user’s account settings. The smooth transition between views where the bottom navigation bar stays in place is done using fragments and each view has its own layout resource file and fragment class. The initial (default) fragment that is loaded is View list of plants.

In the onCreate() method in the main activity the BottomNavigationView object was defined as well as the listener for detecting the navigation item selection.

![A screenshot of a social media post

Description automatically 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Cp6aiLGgWNVRR0CjAFOoAKKKKAOfskSD4hausNuFFxYWs00qAAFw8ygt3LFQADzxHgkYGegqrBp1tb6hdX0Sv9ouwgldpWbIQEKACSFAyThcDJJ6kmrVA3uFFFFAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAjtv+PWL/AHB/KpKjtv8Aj1i/3B/KpKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAjtv+PWL/cH8qkoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)

The loadFragment() method deals with switching between fragments and it is called inside the onCreate() method to load the default fragment on start, as seen in the screenshot below.

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVyaWthU3phc3oAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 2 Navigation item selected listener and loadFragment method

Each fragment class for the three main views extends the Fragment class and inflates the respective layout for each fragment.![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVyaWthU3phc3oAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 3 The Add Plant fragment class

# Test

Figure 3 Logic behind the Register activity

The purpose of the test section is to document the result of your testing; to verify if the content of the requirements section has been fulfilled. How is the system tested, which strategy has been used; e.g. White Box (Unit Test), Black Box, etc.

## Test Specifications

For functional requirements, test specifications must be listed. These test specifications can be described as soon as the functional requirements have been completed (Use Cases including descriptions).

IEEE can be used as a template for test specification (IEEE Computer Society 2008). VIA Library can give you access to this standard.

# Results and Discussion

The purpose of the results and discussion section is to present the outcome and achieved results of the project.

# Conclusions

The purpose of the conclusion section is to compile the results from each section in the report. What is the conclusion? Did the project fulfil the requirements? Etc.

You can only comment on report contents, no new topics or content can be introduced in this section.

# Project future

Reflect on your project from a technical viewpoint and describe what you would change if you could.

Suggest how the project could be improved or made ready for production. Discuss scalability, suggest possible spin offs, what is needed, missing, etc.?

# Sources of information

# Appendices

The purpose of your appendices is to provide extra information to the expert reader. List the appendices in order of mention.

Examples of appendices

* Project Description
* User Guide
* Source code – source documentation
* Diagrams
* Data sheets
* Etc.

**Appendix A Project Description**

Insert the original Project Description here