# WEEMO Inc. Plant Care and Beyond

## Deliverable 3 - Report

# Requirements

The scope of the project had to be completed from front end to back end. The web pages serve as a structure to host our Data. During this phase of development WEEMO focused on getting the individual pages set up because the data we are presenting requires visual representation to convey it as intended.

### Desktop Login Page

* Creates an account
* Registers to MongoDB
* Detects credential errors I.e (incorrect username/no username/incorrect password)
* Validates the credentials.

### Desktop Home Page

* Contains a navigation bar which directs to pages. Home, Plant Database, Weather Radar, Plant care, Beyond and Calendar,
* A search bar has been implemented but has no functionality as of right now
* WEEMO INC LTD LLC is displayed on the primary page with the company logo
* Displays the time for today is (Alarm clock built however still implementing functionality.)

### Desktop Navigation Bar

* Has the ability to go from one page to another
* Has a search bar (non-functional as of right now may possibly be removed after development continues.
* Displays all of the pages associated with the webpage.

### Homepage Clock

* Displays analog clock using Cascading Style Sheets using 12 hour clock formatting.
* Displays minutes, hours, seconds hands in green with a black border to help the user visualize.
* Functionality will be implemented in the future with the intention to use the users native desktop time

### Plant Database (not functioning/still in development)

* Visual representation of the database that stores the plant data
* Contains common/scientific name, pictures, and basic info of plants
* Users will be able to scroll through the database and view individual plants

### Weather Radar (not functioning/still in development)

* Will display a 5 day weather report for user’s entered region
* Will display a radar showing up-to-date current weather
* Will display any weather related warnings (freeze, heavy rain, etc)

### Plant Care (not functioning/still in development)

* Will display specific information for plant care of user’s owned plants
* Will contain individual reports/notes for each of user’s owned plants
* Will contain resources for specific plants

### Beyond (not functioning/still in development)

* Will contain information regarding updates to the app
* Will keep the user updated about changes to the app

### Calendar (not functioning/still in development)

* Will display a calendar in 7x5 grid format
* Will allow user to add reminders to calendar
* Will integrate weather updates to calendar showing when rain/freeze/heat is expected

# UML Diagrams

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| UML Diagrams: Sequence Diagram |

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| UML Diagrams: Use Case Diagram |

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| UML Diagrams: Class Diagram |

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# Tests

For the unit testing we went with the cheapest cost effective approach possible. We had the members of the group explore the site. Since the development of the project is still ongoing WEEMO does not have much Javascript/Java implemented. Our backend is not set up for us to complete a full round of unit testing. JUnit is what WEEMO intends to use in future development.

# Manual

The first page from WEEMO weather website is the register page. The register page consists of three fields. User’s full name, email and password. Once all the information is submitted and completed, the information will be saved once the user clicks submit. There will be an error or a message if the user tries to create the same account twice.

Once the user’s account has been created, the user will be directed to the homepage and be able to navigate to the login page and be able to enter to the home page. The home page shows the menu with an image of the company name, and a message saying, “The time for today is” with a clock showing the time.

The home page includes a menu bar at the top of the website. The menu contains: Home, Plant Database, Weather radar, Plant care, Beyond, Calendar, and the search bar. The user will be able to navigate through the website and select from the menu.

On the left side of the website, at the bottom of Home and Plant Database it shows the search section. The search section can be used to find a type of plant or search for a current plant.

# Instructions on How To Compile

## Register page

This is a [Next.js](https://nextjs.org/) project bootstrapped with [`create-next-app`](<https://github.com/vercel/next.js/tree/canary/packages/create-next-app>).

Getting Started

First, run the development server:

```bash

npm run dev

# or

yarn dev

```

Open [http://localhost:3000](http://localhost:3000) with your browser to see the result.

You can start editing the page by modifying `pages/index.js`. The page auto-updates as you edit the file.

## Desktop/Computer

To access the home page, which displays all of the main features of the page, a user needs to create an account and login. This can be compiled/ran by having the link to the WEEMO website.

# Feedback-based Details

Can a user create a username and password?

-Yes, anybody is able to have one account.

Is the clock on the home page functional?

Is the search bar operational?

Can the admin delete the user account?

-Yes, the admin has access to the registered accounts database and is able to delete user accounts.

Is the database in cloud?

-Yes, MongoDB has the option to choose between AWS and Azure to host the server. We chose AWS.

# Reflection

Register page has been created, to register an account a full name, e-mail and a password is required. This information is stored in MongoDB database, any time a new account is set up the information is checked through the database ensuring there is no duplication. A certain format for email is enforced in order to accept accurate information, we plan to implement an email verification system by sending new users email with a link valid for 24 hours to validate their account as an extra security measure.

We were able to configure the UI for the home page and are in process of making the backend implementation for it as well as integrate it to our register and login pages. Next phase will be adding original features that are in the requirements.

Changing the database from MYSQL to MongoDB allowed WEEMO to integrate the login page with ease.

Finding out how to use javascript on a page for the first time is proving to be a little more difficult than expected.

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# Contributions

| **Names** | **Contribution** Description | **Contribution percentage** | **notes** |
| --- | --- | --- | --- |
| Dewey | Created the source code for homepage.html and homepagestyle.css in GIT repository/ assisted with formatting deliverable | 30 |  |
| Omar | Created the source code for the register page. Set up a database with MongoDB and an authentication system. | 30 |  |
| Miguel | Created the picture diagrams for deliverable/ assisted with adding content to deliverable./ Will help Dewey set up GWT | 20 | Database/backend development in next phase |
| Zuleyma | Created the user manual, assisted with formatting | 20 | There will be more updates for the website and also log in part to provide more description. |