



GREEN
CARING FOR PLANTS

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Software Engineering

14013304-3

Course section :4

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01

Introduction



Project statement:

The aim of this application is to facilitate the process of searching and caring for plants in detail and the possibility of sharing tips and methods of care in the application.

Project idea:

the idea is to create a website that guides the user how to take care of plants in a simple and easy way

Project description:

The main idea of our website is to help plants caretakers to have The right information from Authorized websites and specialty people, the user can be a guest or can register in the website so the user can write about how he takes care of his plants and people can share their comments on it and favorite the topic so they can go back to it, the website also have a categories containing every kind of plants every category contains information about how to take care of plants, soil or water. We aspire that this website make plant care fun and easy for everyone and hopefully makes a number of the majority love plants which will make our world way better.

02

Problem & Solution



-What type of problem will this project solve:

We hope to solve the problem that the people who love to care about the plants and have problems they can't solve or didn't find the right way to solve it and they need to educate themselves about planting and how to take care of it safely

-purpose of project

(our purpose is to create a website that help plant caretaker to find information about plants and to make sure that the information that we present its a right and trusted from specialist people and we let users write comments and sharing their knowledge about plant

- project contribution

(make sure plants caretakers find trusted information and the right way to take care of plants)





-project objective-motivation

(some of group members have a plant and they don't know how to take care of and every time they bought a plant it's dies in a short period of time and a mildew starts growing on the soil so that what make us think about this idea

project scope

the system will cover between 80 - 100 plants and its soils and five sections and the best places for plants to grow healthy and gorgeous

Type of software programming language and why?

Wix /just in mind

Because it provides all the features and functions that help in creating the project in the desired way.

Other related system:

PlantIN :

(They getting the information from personalized assistance and the system has a limited free trial).

PlantZ:

(they are marketing and selling and shipping plants)
But our system is only for benefit and knowledge, and
there was no selling and marketing in it

Picture this:

(they allow you to take pictures of your plant and figure what the disease on it)

In our system This feature was not available because there were no specialists in knowing the disease of the plant.

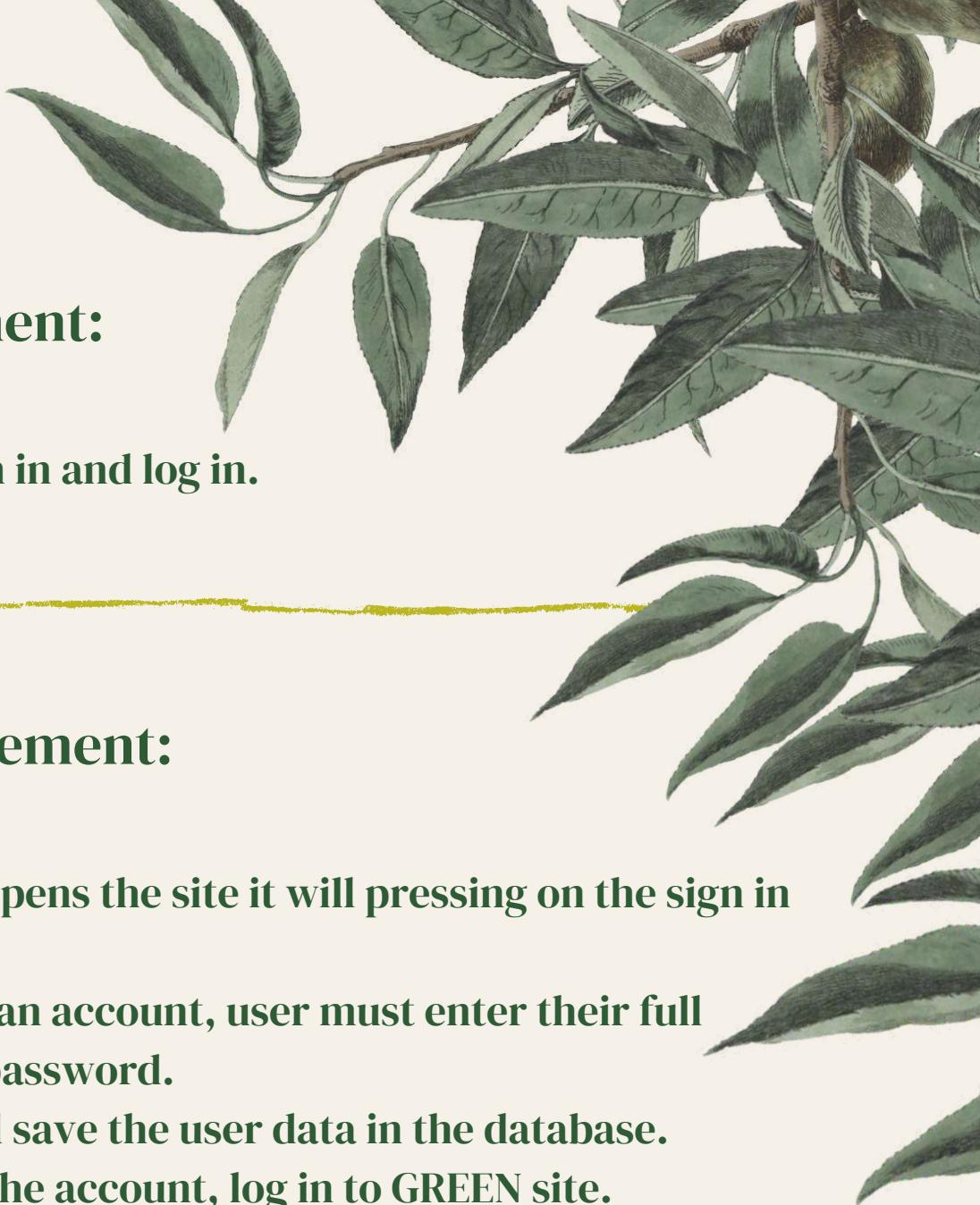
NaturalID :

(they put a cost of money for every picture of your plant)
In our system, the user cannot put any pictures.

We excel that Through our system, you can benefit from knowing the type of plant, its needs, and what soil it's need and how to adapt it.

03

Functional requirement



User requirement:

1. The user can sign in and log in.

System requirement:

1.1 when the user opens the site it will pressing on the sign in button.

1.2 When creating an account, user must enter their full Name, email, and password.

1.3 The system will save the user data in the database.

1.4 After creating the account, log in to GREEN site.

1.5 The GREEN system allows the user to log in using the full name and password provided.

1.6 The GREEN system checks the full name and password from the database.

1.7 The GREEN system sends an error message only if there is no full name and password for the user in the database.

1.8 When the full name is not in database, the system will not accept it.

1.9 if the full name and password are in the database The GREEN system opens the home page.



User requirement:

2. The user can have own profile.

System requirement:

2.1 when the user login.

2.2 the GREEN system opens the home page.

2.3 the system allows to our users to open own profiles.

2.4 the user can go and open owns profile.

2.5 The GREEN system allows to our users to edit owns profiles.

2.6 The GREEN system allows to our users to checks owns favorite lists through owns profiles.

2.7 The GREEN system allows to our users to delete from owns favorite lists through owns profiles.

User requirement:

3. The user can write comments or feedback.

System requirement:

3.1 When a user is logged in.

3.2 The Green system opens the home page.

3.3 On the main page plants and information about them will appear.

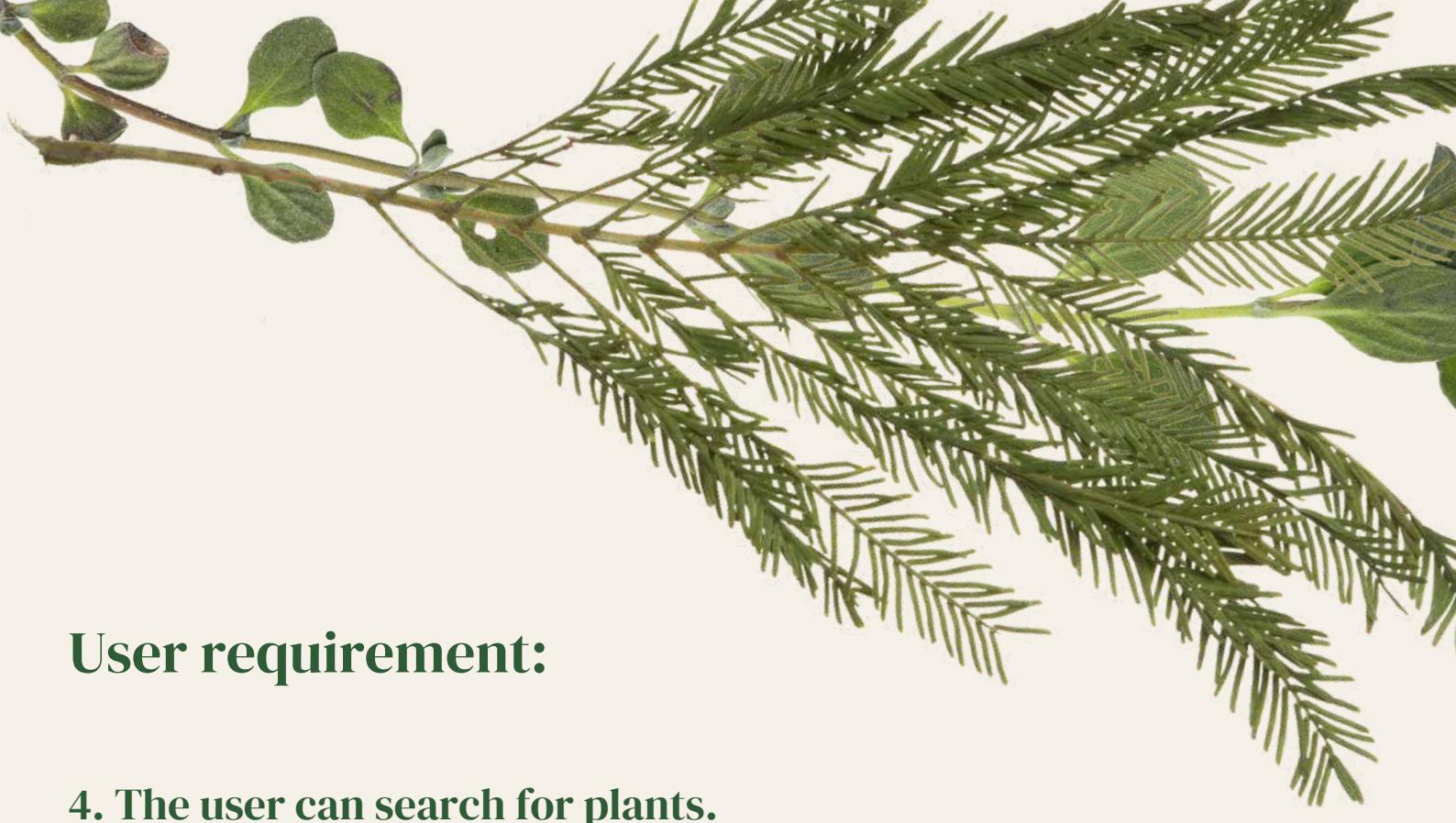
3.4 The user can choose the plant he wants to read about.

3.5 After that, a simple overview of the plant and how to take care of it will appear in detail, including the appropriate soil for it on another page.

3.6 At the end of the page there will be a text box for the comments.

3.7 The user can write his opinion on whether he has benefited or if he has any problem that will be considered.

3.8 After that, to save what he wrote, he will press the Save button, and what he wrote will appear on the same page.



User requirement:

4. The user can search for plants.

System requirement:

4.1 When a user is logged in.

4.2 The green system will open the home page

4.3 On the main page plants and information about them will appear, and at the top of the page there will be a search engine.

4.4 There will be a lot of plants, so if the user wants a particular plant and does not find it immediately, he can search for it through the search engine at the top of the page.

4.5 After that, the plant whose name has been written will appear to him.

4.6 And he can press on it to be able to read.



User requirements:

5. The user can favorites plants.

System requirements:

5.1 If the user loves the plant and wants to save it to read it for a later time, the green system provides him with a favorites list feature so that he does not have to search for it every time.

5.2 On the main page, plants are shown with a simple overview so that the reader can quickly get an idea of the plant.

5.3 When the user wants to add a specific plant to the favorites for a later time, he will first open the plant he wants to read about.

5.4 As we mentioned previously, there will be a detailed but simplified introduction to the plant, and a detailed explanation of its care, starting with the appropriate soil for it and everything related to its care.

5.5 The green system allows our users to add a plant to favorites by clicking on the heart icon at the top left of the same plant page.

5.6 The plant will be saved and added to the user's favorites list in the profile.

5.7 The user can check his favorite list in his profile at any time.

User requirements:

6. The user can communicate with some centers specializing in plants.

System requirements:

6.1 On the home page of the site, at the bottom of the page in the tape there will be accounts and contact numbers for accounts specialized in plants.

6.2 The user chooses a position from the positions in front of him

6.3 The user can contact the center through the center's phone number or communicate with them through their accounts on social networking sites.



User requirement:

7. The user can filtering plants.

System requirement:

7.1 On the main page of the site, to the right of the page at the top, there will be a menus icon.

7.2 When you click on it, categories will appear containing several types of different plants arranged by numbers, each type will start with a certain number.

7.3 The user selects the type of plant he wants, all plants that fall under that type will appear.

7.4 The user selects the plant he wants.

7.5 After that, information about how to care for this plant will appear in detail with a picture of it.

04

Non-functional requirement





1. Accessibility:

1.1 Easy access to services

2. Availability :

2.1 The system should be available 24 hours.

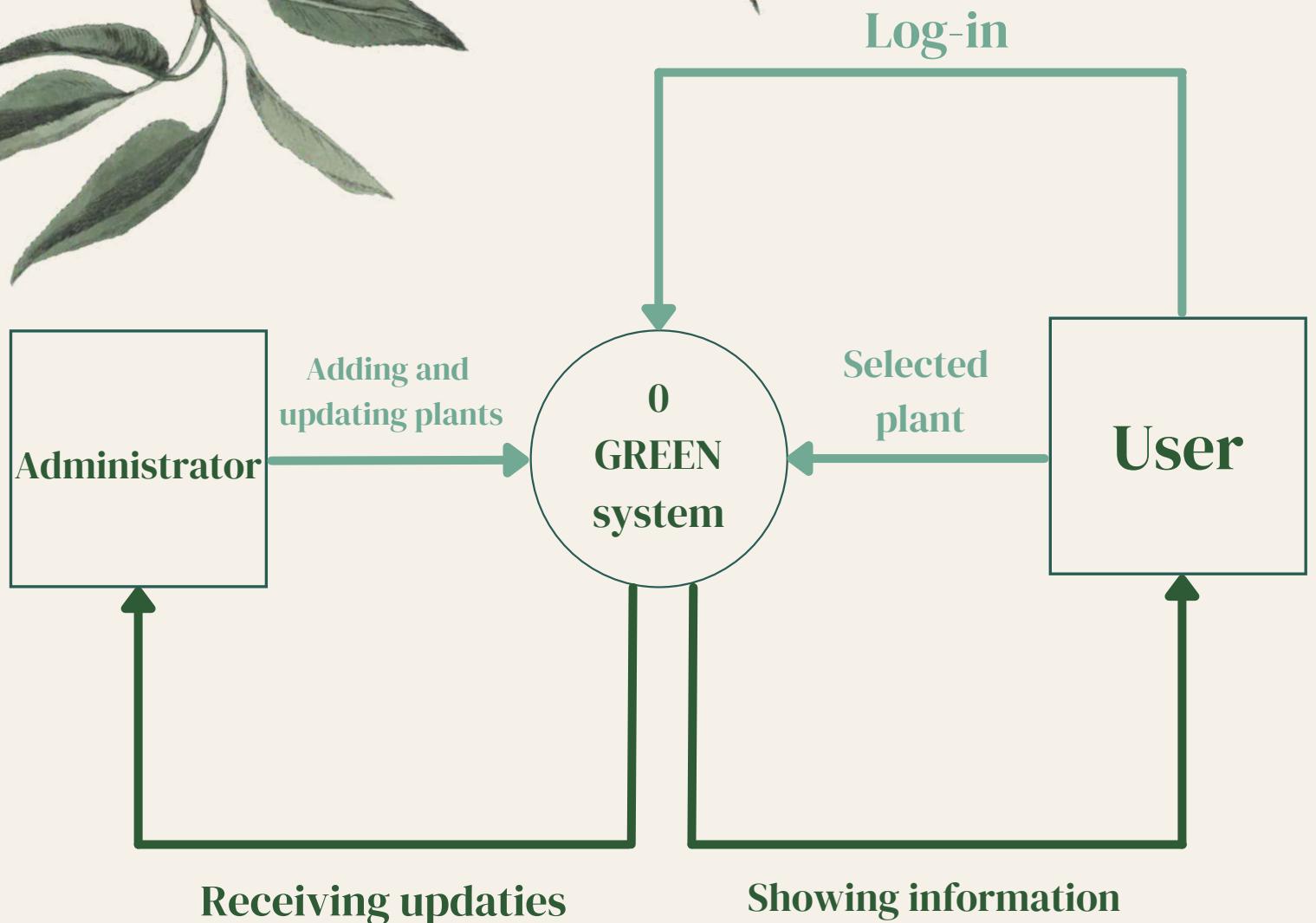
3. Performance:

3.1 Should be fast.

05

The context model



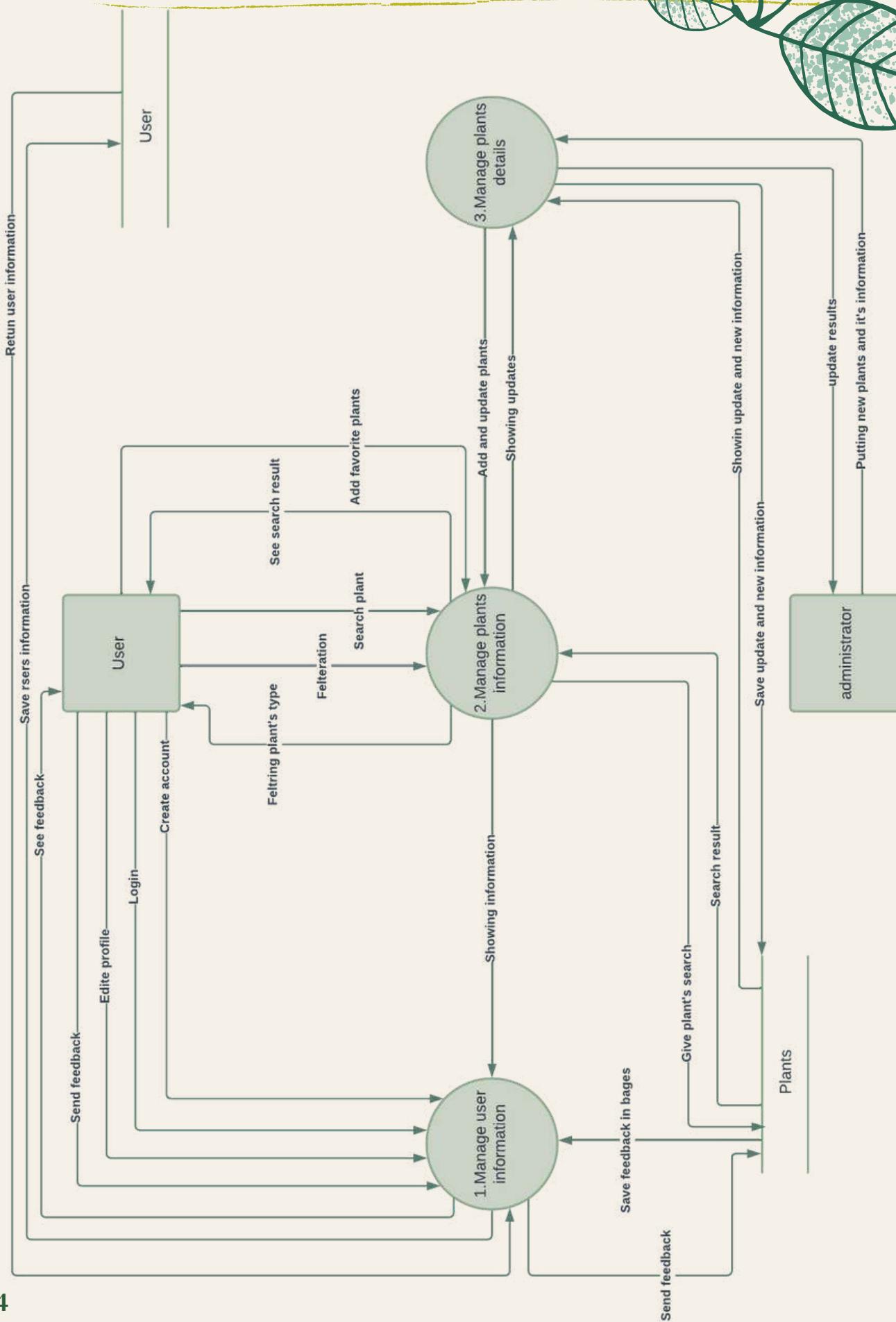


06

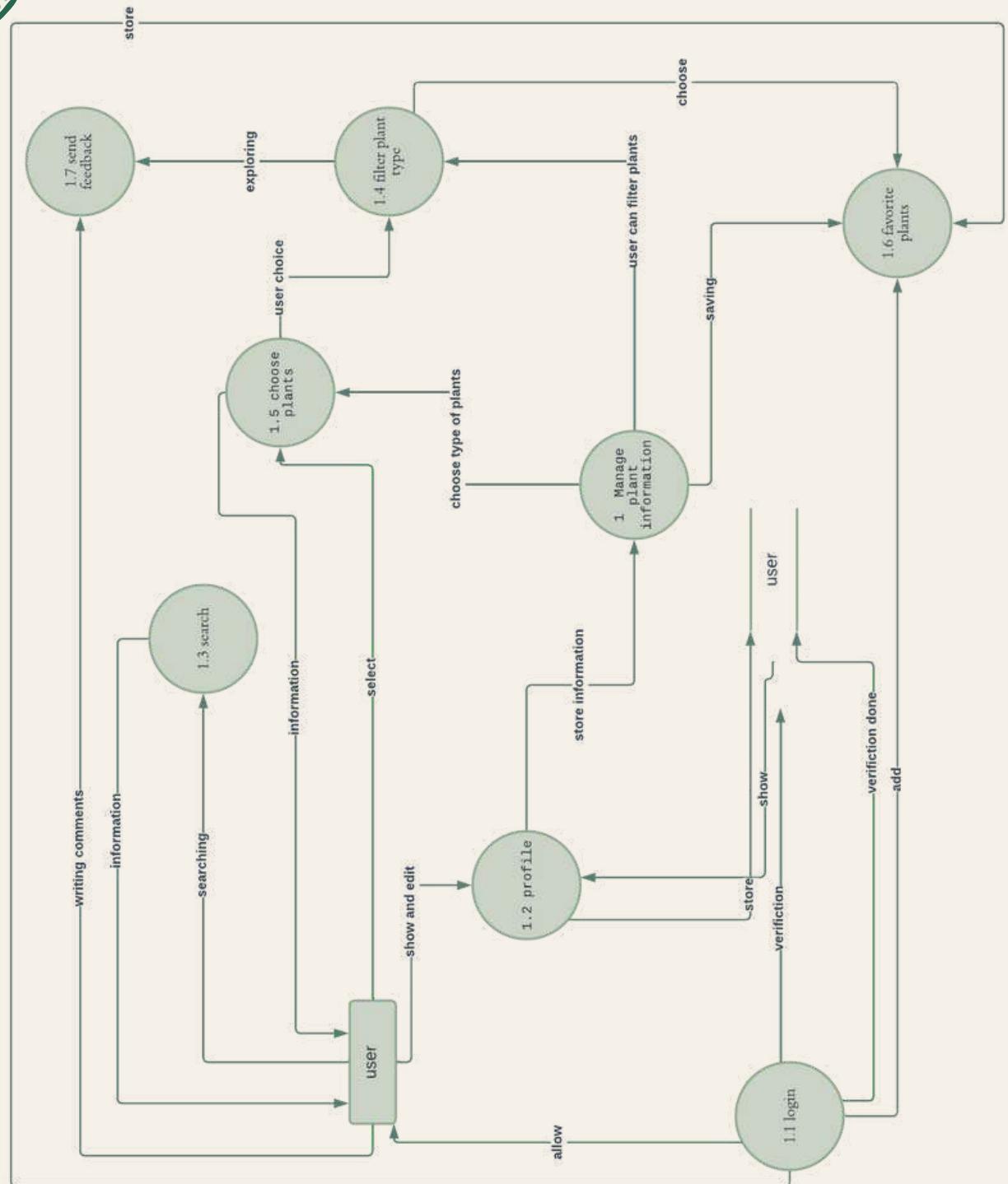


DFD diagrams

(Level-1)



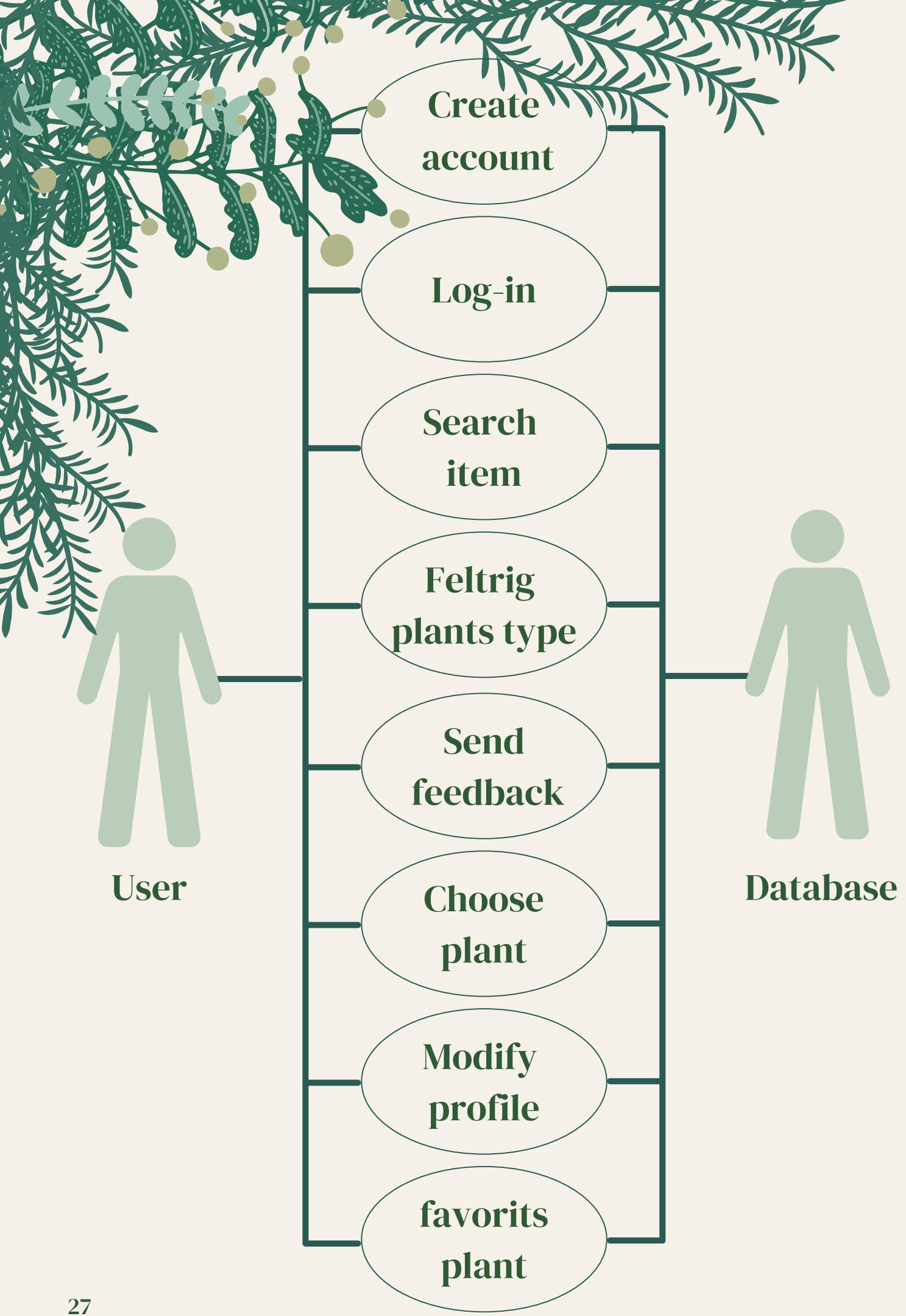
(Level-2)



07

Use case diagram





08

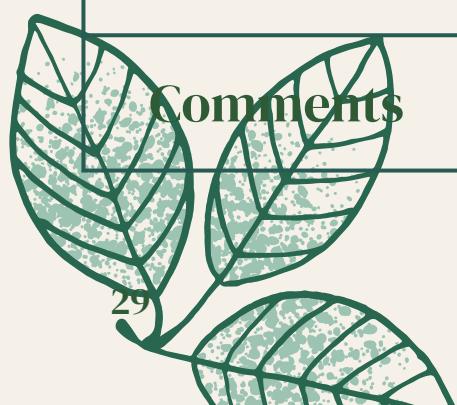


Use case text (Scenario)



Create account

Actors	User& database
Descriptions	<p>1- A screen with the green program logo will appear</p> <p>2- There will be two buttons, one for creating an account and the other for login</p> <p>3- After the user presses the Create account button, a list will appear for him</p> <p>4- This list contains a number of data in order to create a user account</p> <p>5- The data is the full name and email, the password and the user must enter all these data</p> <p>6- After the user enters this data, he presses the button</p> <p>7- After that, the program saves this data in the database</p>
Data	User data
Stimulus	The user creates an account in the green program
Response	A user account in the green program
Comments	non





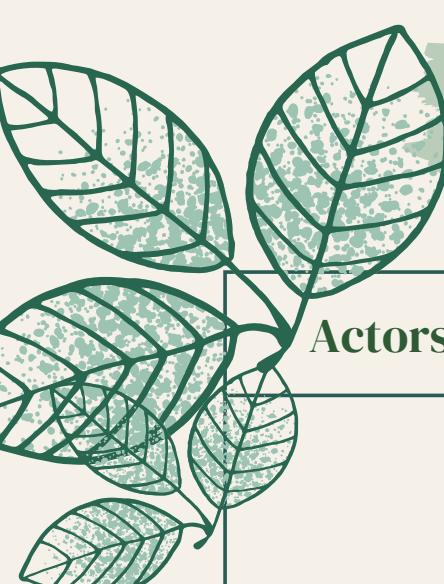
Log-in

Actors	User & Database
Descriptions	<ol style="list-style-type: none">1. The users can log-in by their full name and password.2. The system check full name and password from the database.3. Then opens the home page only if the full name and password are present in the database.4. The system sends message error only if the full name and password are not present in the database.
Data	Log-in information from users(full name and password.)
Stimulus	users should have create account first
Response	Log-in to the home page
Comments	non

Search item

Actors	User& database
Descriptions	<p>1- When a user is logged in.</p> <p>2- The green system will open the home page</p> <p>3- On the main page plants and information about them will appear, and at the top of the page there will be a search engine.</p> <p>4- There will be a lot of plants, so if the user wants a particular plant and does not find it immediately, he can search for it through the search engine at the top of the page.</p> <p>5- After that, the plant whose name has been written will appear to him</p> <p>6- And he can press on it to be able to read.</p>
Data	Information about plants
Stimulus	The user searches for the type of plant he wants through the search box
Response	The type of plant that the user searched for appears
Comments	non





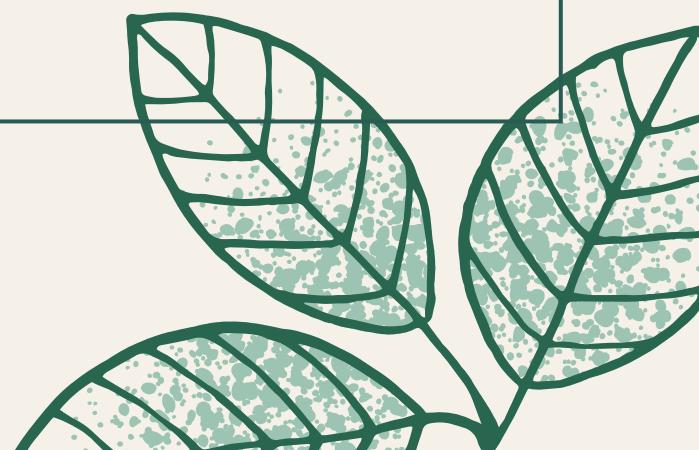
Feltring plants type

Actors	User& database
Description	<p>1-After creating an account or login for the user in the green Website</p> <p>2-The user will be shown a list containing several types of plants</p> <p>The user will be shown a list containing several types of plants</p> <p>3- After the user chooses the type of plant he wants</p> <p>4- It will become a filter for all types of plants and only the type of plant chosen by the user will appear without other types of plants</p> <p>5- After the user chooses the type of plant he wants, information on how to take care of this plant and a picture of this plant will appear</p>
Data	<p>It will show the user all kinds of plants</p>
Stimulus	<p>The user adjusts the filter for plant species</p>
Response	<p>The appearance of the type of plant that was filtered and selected</p>
Comments	<p>non</p>



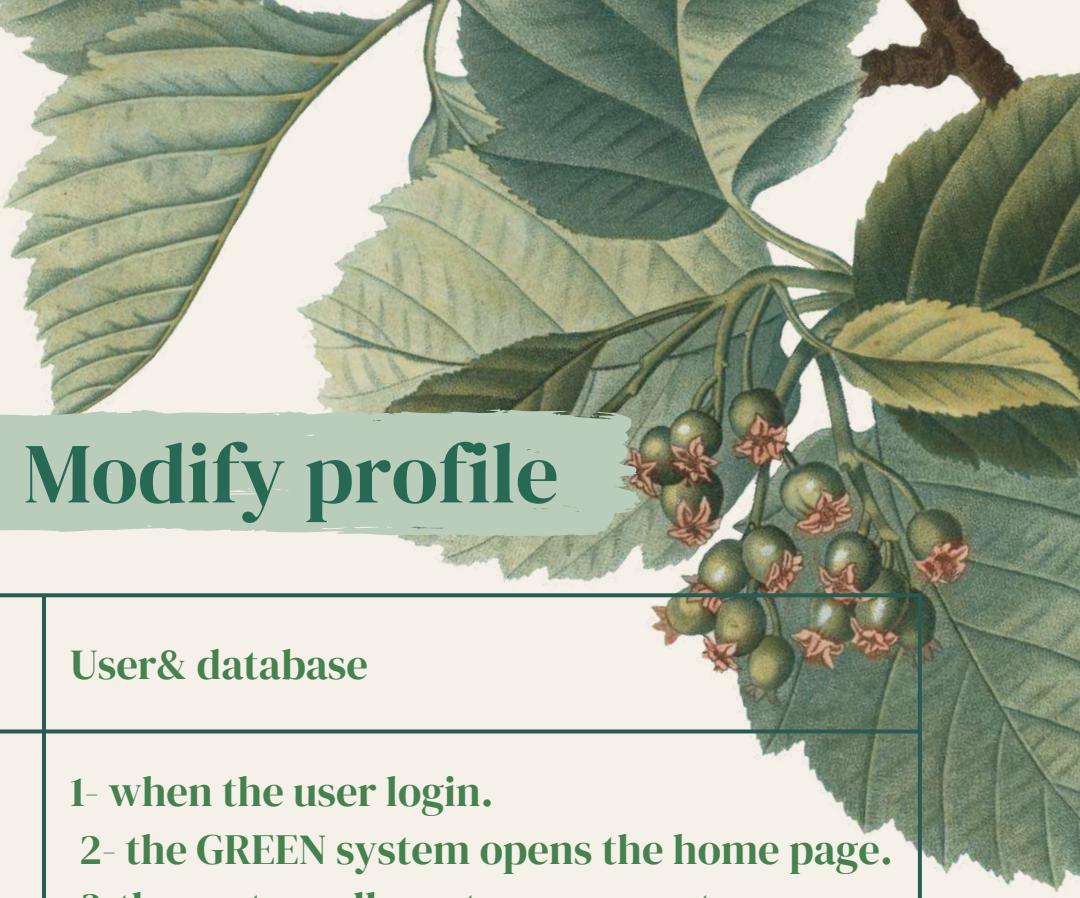
Choose plant

Actors	User
Descriptions	<ol style="list-style-type: none">1. After the home page is opening for user , it will appears all the plants in system.2. The arrangement of plants on the page will be as follows: (a square with a picture of the plant and under the picture its name).3. so , the user can select any plant for read about it.4. then , it will opening plant's information and details.5. now the user can read everything about this plant and about care of it.
Data	Plant's information.
Stimulus	users will click on the plant they wants.
Response	Plant information page and all related details
Comments	Non



Send feedback

Actors	User& database
Descriptions	<p>1- When a user is logged in.</p> <p>2-The Green system opens the home page.</p> <p>3- On the main page plants and information about them will appear.</p> <p>4- The user can choose the plant he wants to read about</p> <p>5- After that, a simple overview of the plant and how to take care of it will appear in detail, including the appropriate soil for it on another page.</p> <p>6-At the end of the page there will be a text box for the comments.</p> <p>7- The user can write his opinion on whether he has benefited or if he has any problem that will be considered.</p> <p>8- After that, to save what he wrote, he will press the Save button, and what he wrote will appear on the same page.</p>
Data	User Notes
Stimulus	The user writes his or her notes into a comment text box
Response	User notes appear on the page
Comments	non



Modify profile

Actors	User& database
Descriptions	<p>1- when the user login.</p> <p>2- the GREEN system opens the home page.</p> <p>3-the system allows to our users to open own profiles</p> <p>4-the user can go and open owns profile.</p> <p>5- The GREEN system allows to our users to edit owns profiles.</p> <p>6-The GREEN system allows to our users to checks owns favorite lists through owns profiles.</p> <p>7- The GREEN system allows to our users to delete from owns favorite lists through owns profiles.</p>
Data	User's data
Stimulus	The user can edit his profile
Response	User data modification
Comments	non

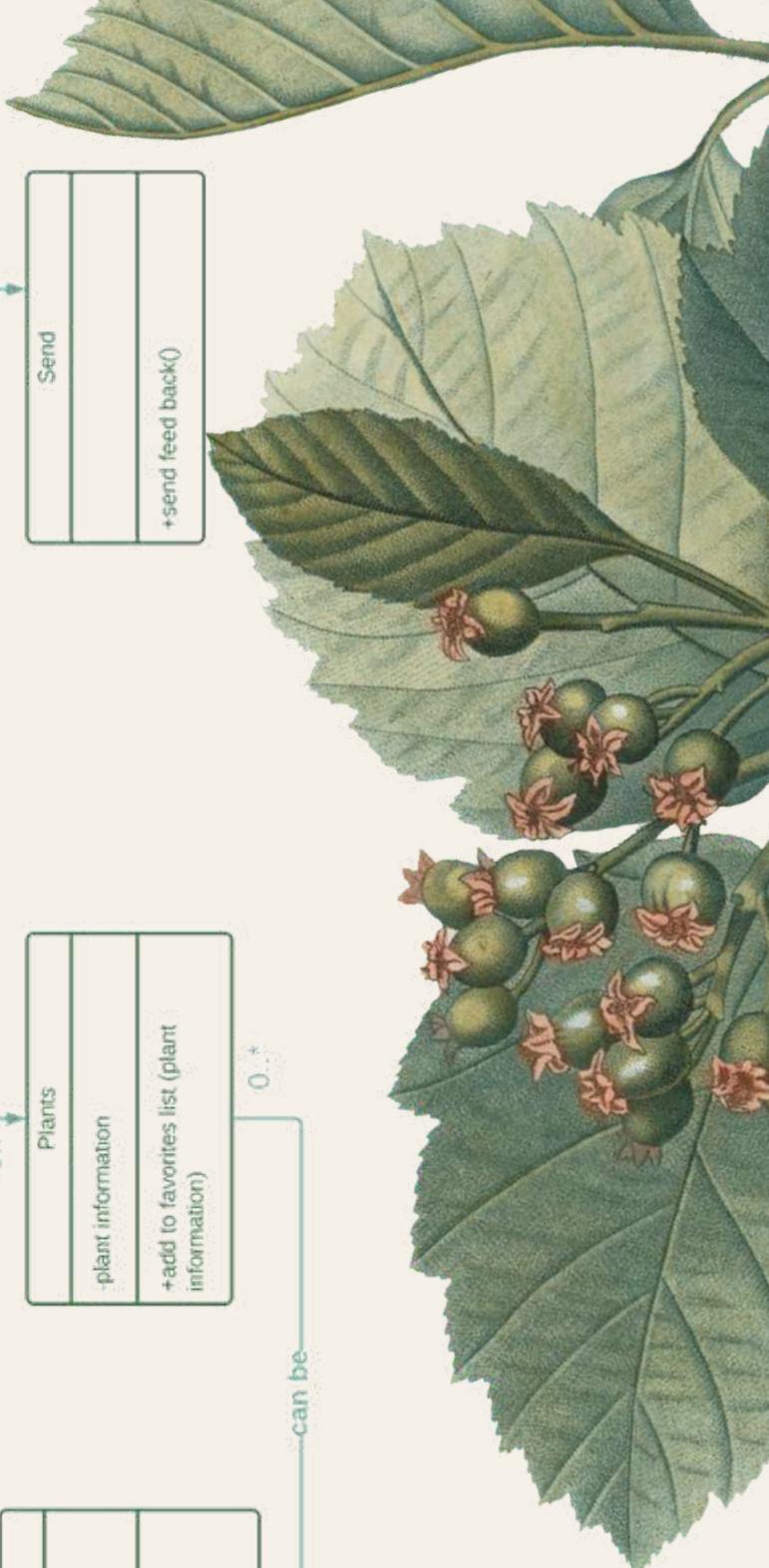
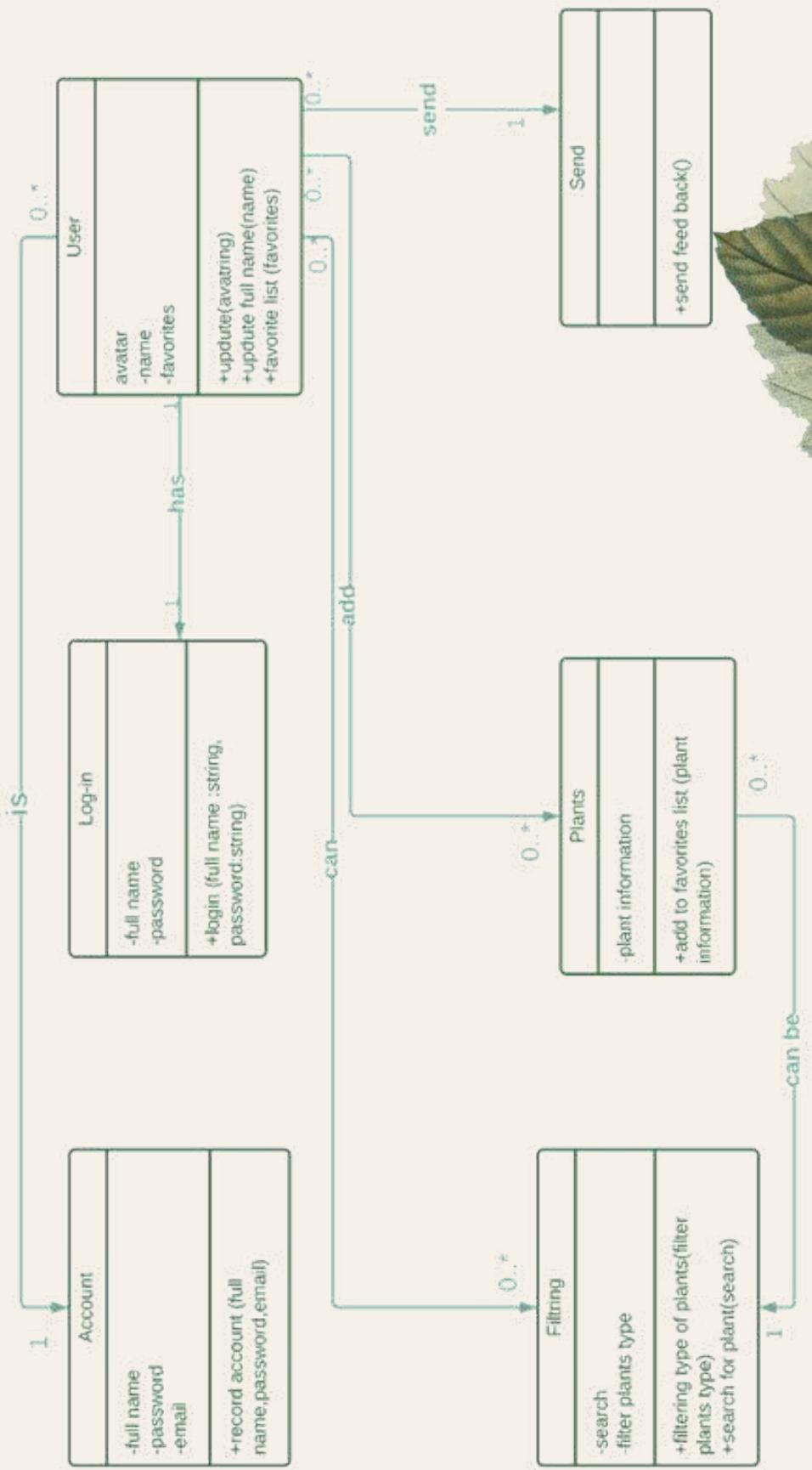
Favorites plant

Actors	User& database
Descriptions	<p>1- If the user loves the plant and wants to save it to read it for a later time, the green system provides him with a favorites list feature so that he does not have to search for it every time.</p> <p>2- On the main page, plants are shown with a simple overview so that the reader can quickly get an idea of the plant.</p> <p>3- When the user wants to add a specific plant to the favorites for a later time, he will first open the plant he wants to read about.</p> <p>4- As we mentioned previously, there will be a detailed but simplified introduction to the plant, and a detailed explanation of its care, starting with the appropriate soil for it and everything related to its care.</p> <p>5- The green system allows our users to add a plant to favorites by clicking on the heart icon at the top left of the same plant page.</p> <p>6- The plant will be saved and added to the user's favorites list in the profile.</p> <p>7- The user can check his favorite list in his profile at any time.</p>
Data	Favorite types of plants
Stimulus	User is adding plants to favourites
Response	By clicking on the heart icon at the top left of the same plant page.
Comments	non

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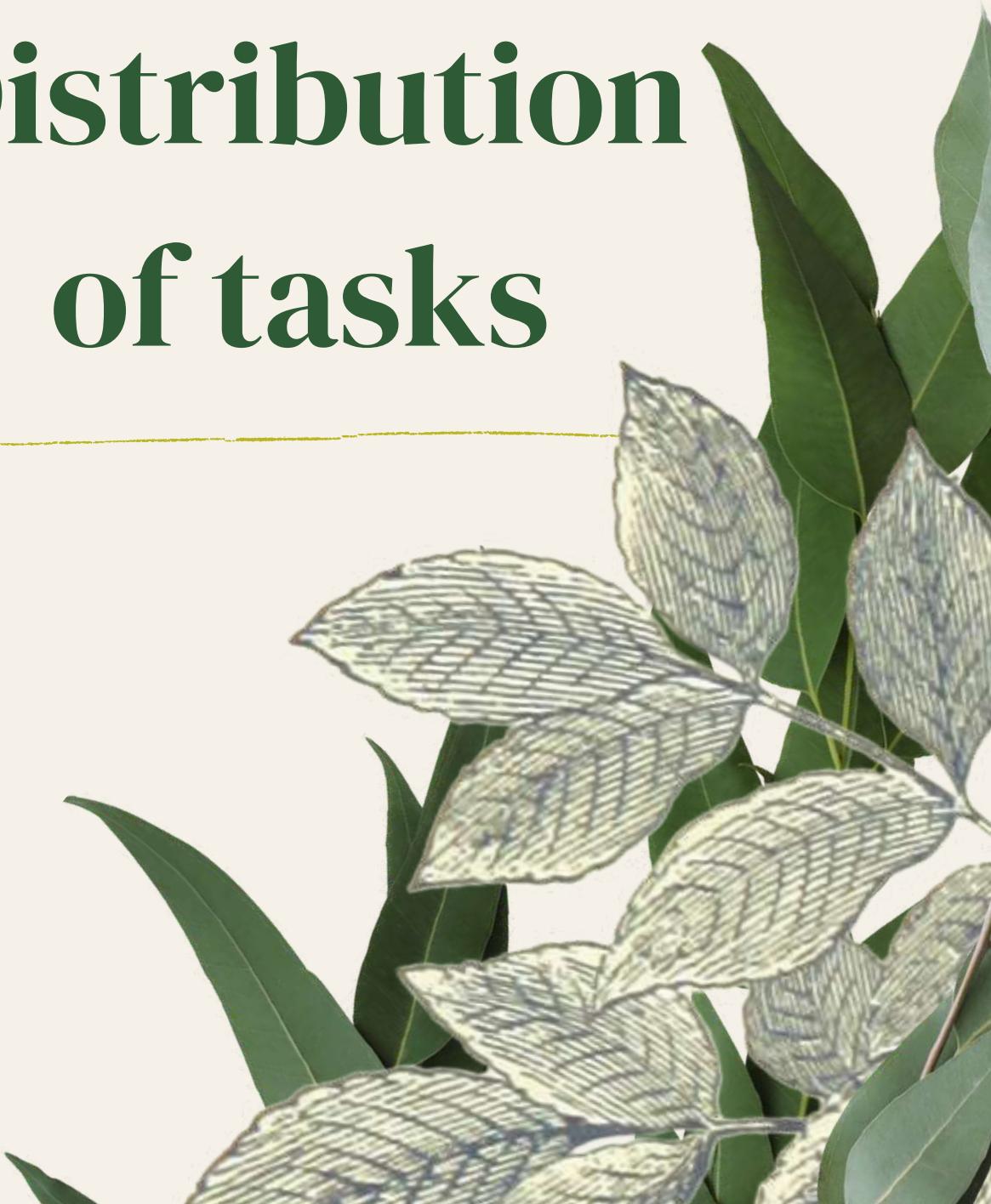
Class diagram





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Distribution of tasks





Tasks	Alaa	Alfahdah	Sadia	Deema	Shahad
Introduction		*	*		*
Problem & Solution		*	*		*
Functional requirement	*			*	
Non-functional requirement	*			*	
Diagrams	Context model + Use case diagram + DFD (level-2) + Class diagram	DFD (level-2) + Class diagram	DFD (level-1) + Class diagram	Use case (Scenario) + DFD (level-2) + Class diagram	Class diagram