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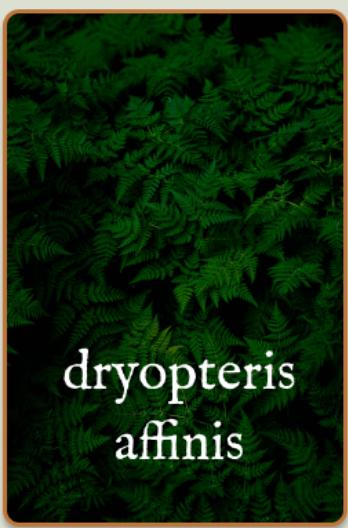
SIT120 - Assignment 1

August 28<sup>th</sup>, 2021



# Summary

**Tend** is a responsive web application for horticulture enthusiasts, or “Plant Parents”. Tend helps people who have house plants to keep track of the watering, fertilizing and repotting schedule needed for their many plants. This can get especially difficult if there are more than just a few plants. Tend will also act as a social website for these plant enthusiasts to share their plants, as well as discuss different species and techniques.



# Target Audience



**The Nurturing Novice** is new to this whole "plant thing". They are looking for a resource that has all the information they need to properly take care of their plants. They want to be told the best way to take care of their plants without having to sift through pages and pages of text. Tend will help them by providing them a suggested schedule, as well as easy trouble shooting tips based on their plant's species.



**The Busy Body** has plenty on the go, and way too much to be able to remember when to re-pot their plants. Despite this, the few hours they do spend at home, they find house plants to be a relaxing oasis. They would like to be reminded when their plants need a little loving, within a convenient interface. Tend will help them by providing notifications on when an action needs to be performed, as well as easy ways to execute these actions.



**The Social Scholar** is looking for a social environment to learn about plants, and exchange ideas. This means that they are not only searching for useful resources related to plants, but also to easily connect with other users. Tend will provide public forums, comments on profiles and private messages to satisfy these users.

# Creativity

## Modern, Responsive Design

tend works across a wide variety of devices. This is crucial since the target audience will have many different sizes of devices and expect tend to work on all of them. It also must be efficient and easy to use. For example, Tend allows quick responses to notifications by simply clicking on the notification instead of delving into menus.



## Image Driven

Instead of walls of text to read through, there are plenty of pictures of great plants! It is only when you arrive at a specific plant page or article that there is a large amount of useful information in text form. Since plant enthusiasts would rather be looking at pictures of plants rather than reading text. This is similar to the popular Pinterest image board.



# Creativity

## Social Community for Plants

tend is a place for people to come together and discuss ideas relating to plants. They expect easy to use features, and ways of communicating between users.



John Q.

Wow! What a good looking fern.



## Instructions on Plant Care

Based on the factors given, Tend will let the user know the ideal water/fertilising/re-potting times. If the times aren't quite right, there are adjustments and feedback that can be made, as well as troubleshooting guides to figure out what went wrong. These instructions will be clearly displayed instantly as the user logs in, providing quick access for those busy users.

# Design Focus

## Minimal Design

Design is scaled back, **emphasizing the content**, and making it **easier to use**. This allows the user to focus on what they want to see: **great plants**.

## Natural Design

The one thing all the target users have in common is the fact that they see horticulture as a **calming and cathartic** exercise. They would want the same experience from a tend. This manifests itself with the **neutral colour palate**, and the **smooth and slow animations**.

## Familiar Design

The design also implements familiar design features from many industry leaders such as Facebook and Pinterest such as likes, image galleries, and infinite scrolling.

Elements are placed in familiar places to the target audience who have grown up with applications on their phones. For example, the menu is in the top right, **exactly where the user expects it to be**. This builds upon the sense of **familiarity and comfort** in the user, since they will already be used to these layouts and ideas.

# Design

## The Colour Palate

focuses on very **natural colours**. Most of the screen will use the background colour, keeping the visual nice and light. Pops of the main, accent and secondary colours will give visual interest to the pages. This reflects the target audiences need for a **minimal, clean design**.

Background

#D8DAD4

Main

#BF763C

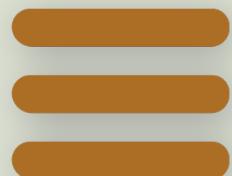
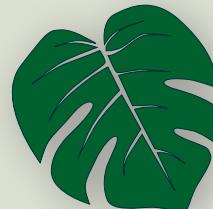
Secondary

#3D6B56

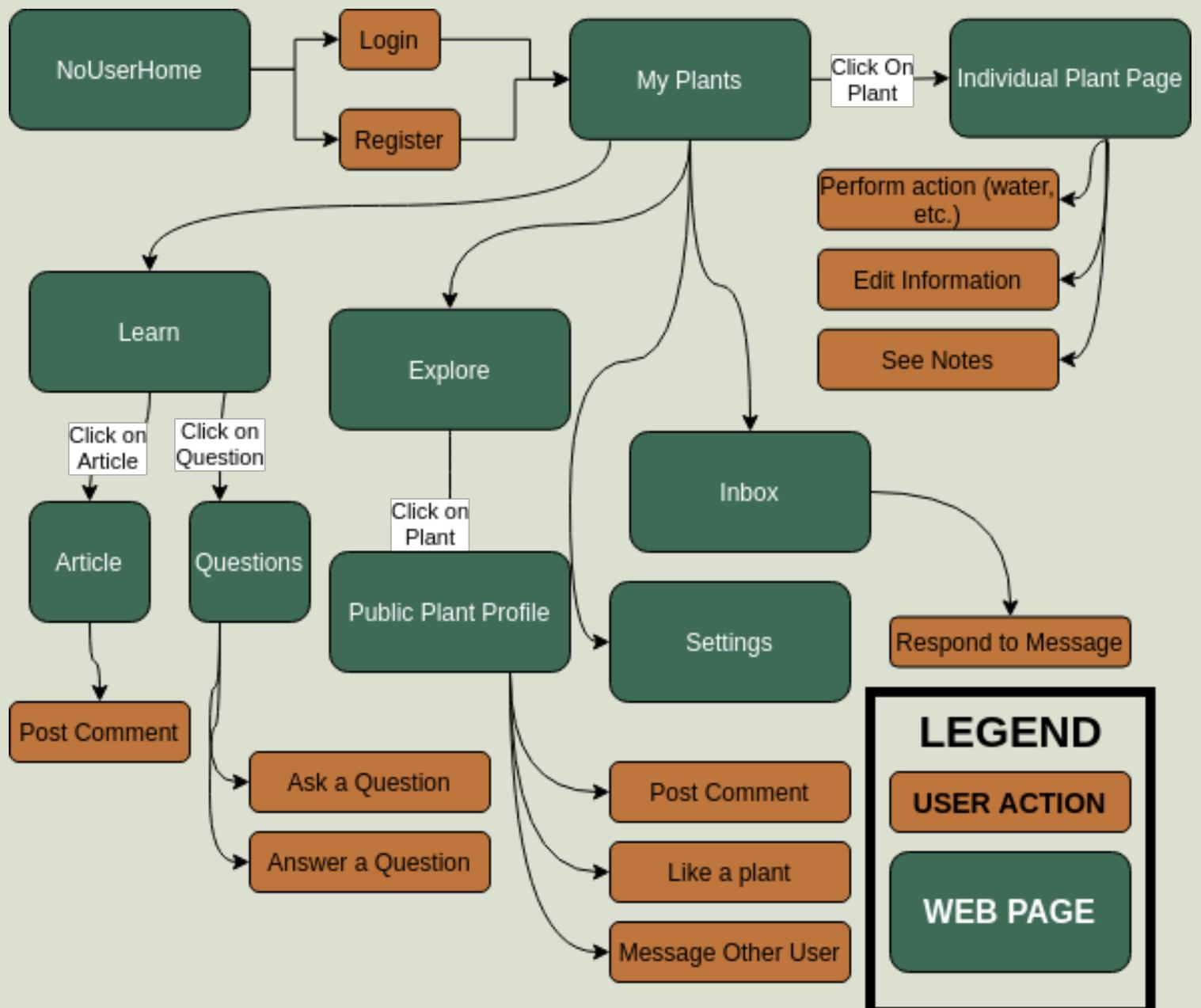
Text

#3F463D

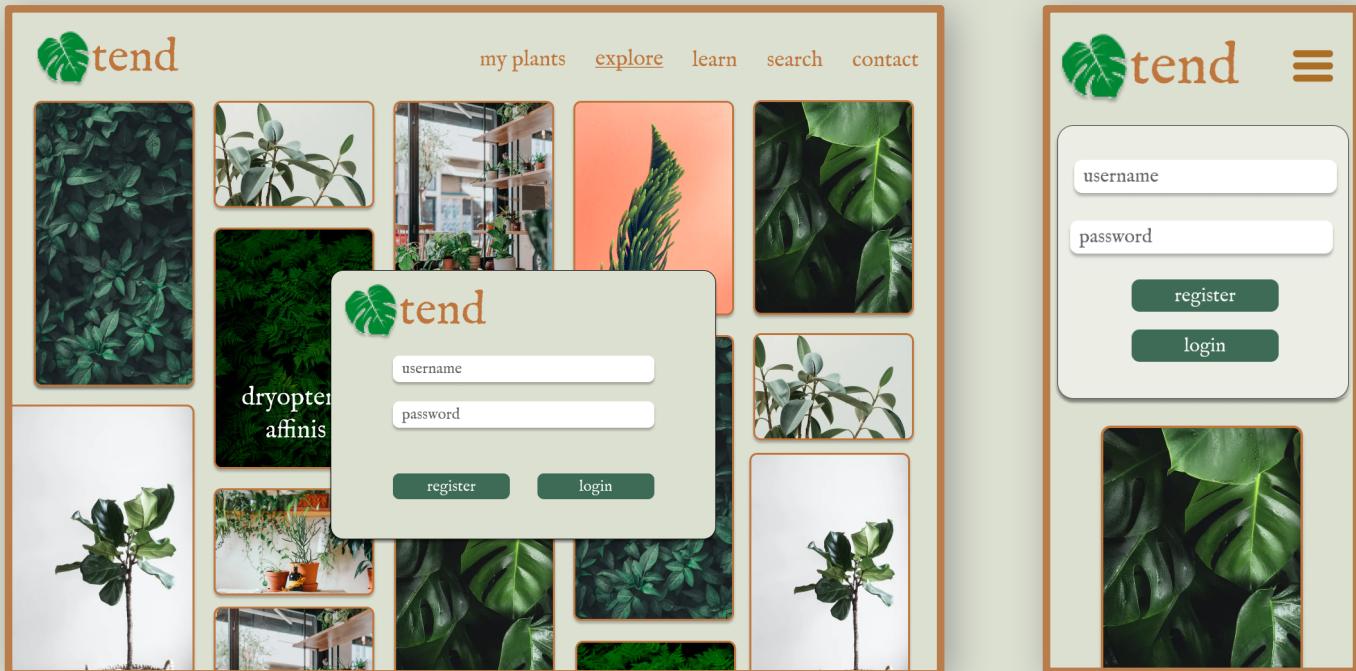
**Custom Icons** will be used to add to the identity of tend. The logo leaf will be visible on all pages. The mushroom, water and pot icon will be used to notify the user of actions they need to perform. The well-known “hamburger” icon will be used to expand the menu on smaller devices. *Material Design* icons will be used to supplement the custom icons. This set of icons are used in many other applications and will provide a sense of familiarity and comfort.



# Activity Diagram



# Pages: LogIn

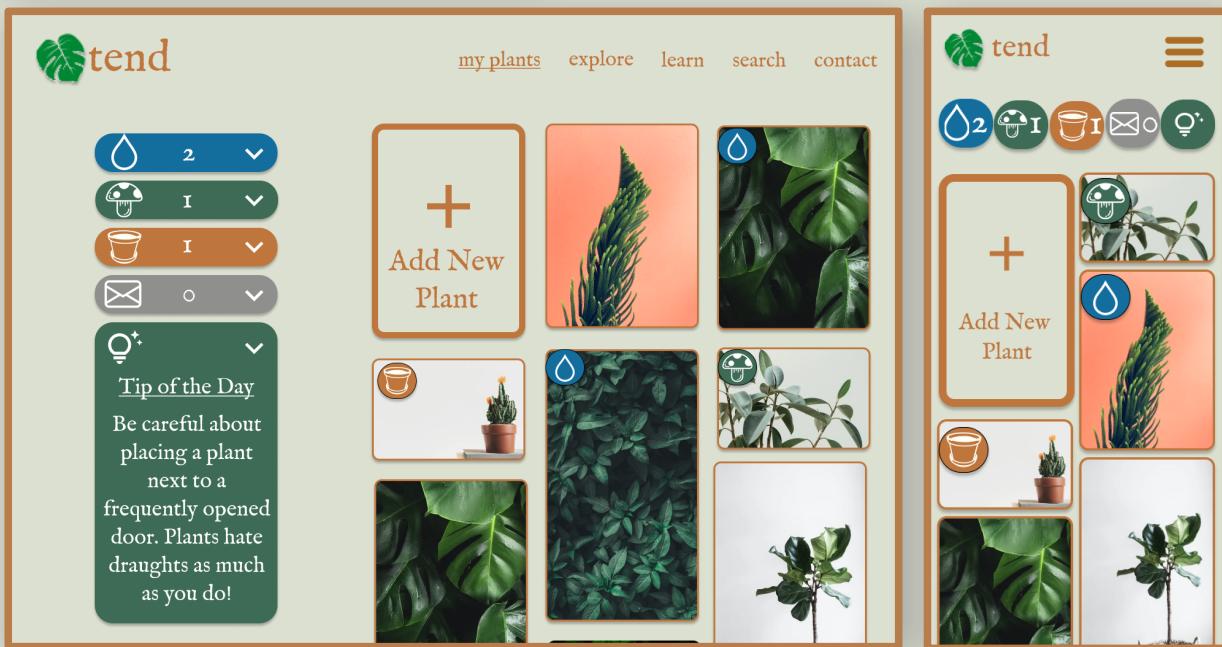


**First Impressions are important.** This is where the user lands when they first arrive at the website. It includes a scaled back version of explore page, which allows new users to get a taste of the full experience.

On larger displays the login window will be hovering over top of the gallery. When the user scrolls down, the login window will disappear off the top of the screen allowing the user to continue viewing images in a “guest mode”.

On the mobile version, the login form will act as the first “card” of the gallery. The image gallery will be implemented using ImageGallery.vue. The login window will use a modified version of the PopUp.vue.

# Pages: MyPlants



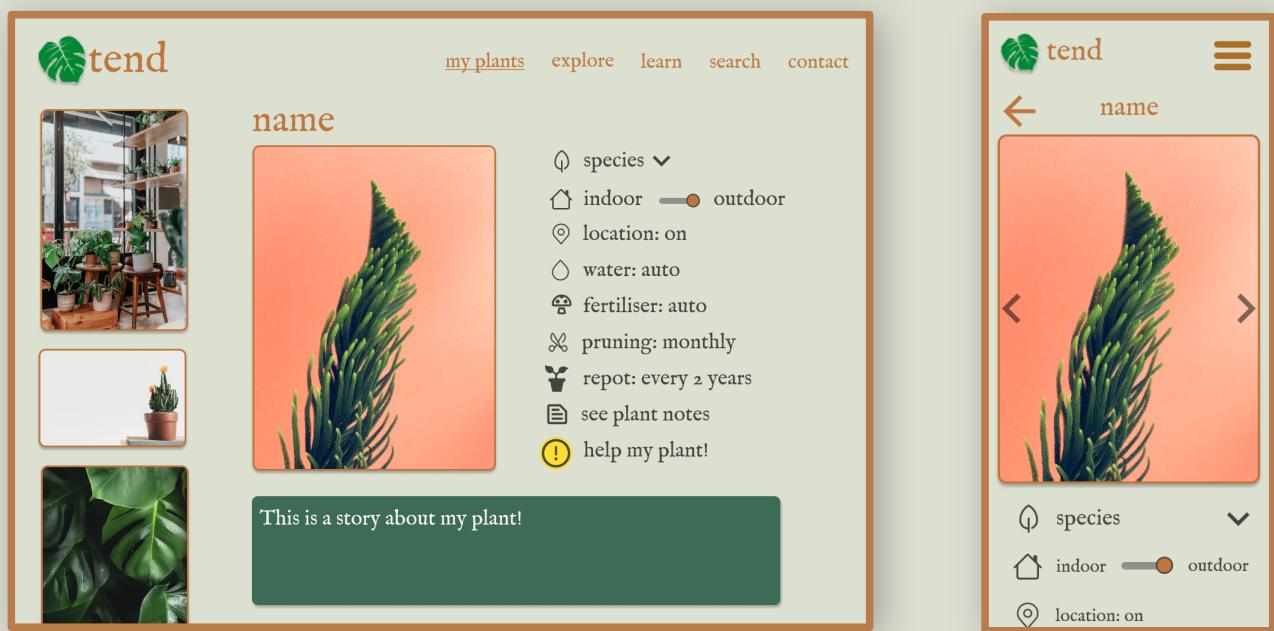
**See all your current plants.** Notifications shades that open up on the left side of the screen will prominently display plants that require attention. This will help busy users that only want use the tracking portion of the app, so they can get in and get out. It also creates clear indication for other users as well so that they don't miss a thing.

The mobile version has the same notifications shades but in a smaller format at the top of the screen. They will expand to display the same information as the desktop version.

On the right will be an ImageGallery component with modified ImageCard components that will be able to display notifications. Clicking on these notifications will perform actions on the plant, saving the user time by not having to go to the individual plants page. A pop-up window will confirm actions in case of a mistaken click. Clicking on the card itself will take the user to an IndividualPlantPrivate component with all the information of the plant.

Users can quickly add a new plant by clicking the “Add New Plant” card in the gallery. This is another example of simple and clear design to make tend more usable.

# Pages: IndividualPlantPrivate



**Settings for your plants.** The private profile for a plant contains information about that plant and is only viewable to the user. To edit a field, simply click on the field to open an input window. The idea is that everything related should be able to be viewed/modified effortlessly with only one or two clicks.

This page allows the user to:

- Monitor the watering/fertilising/re-potting schedule, and adjust them using a quick select menu.
- Make interactions with notes about the plant and view past interactions.
- Create a public profile for the plant that allows the user to share the plant's story/design/etc... with other users.
- Enter the species of the plant, which will auto-complete to known species, but also allow users to fill in their own species and expand the database.
- Toggle the plants location to indoors or outdoors by clicking the slide.
- Jump to a generic species page by clicking on the bright yellow exclamation point or "help my plant!". The generic species page will provide ideal conditions and trouble shooting. This is ideal for that novice who is just starting out and looking for help.

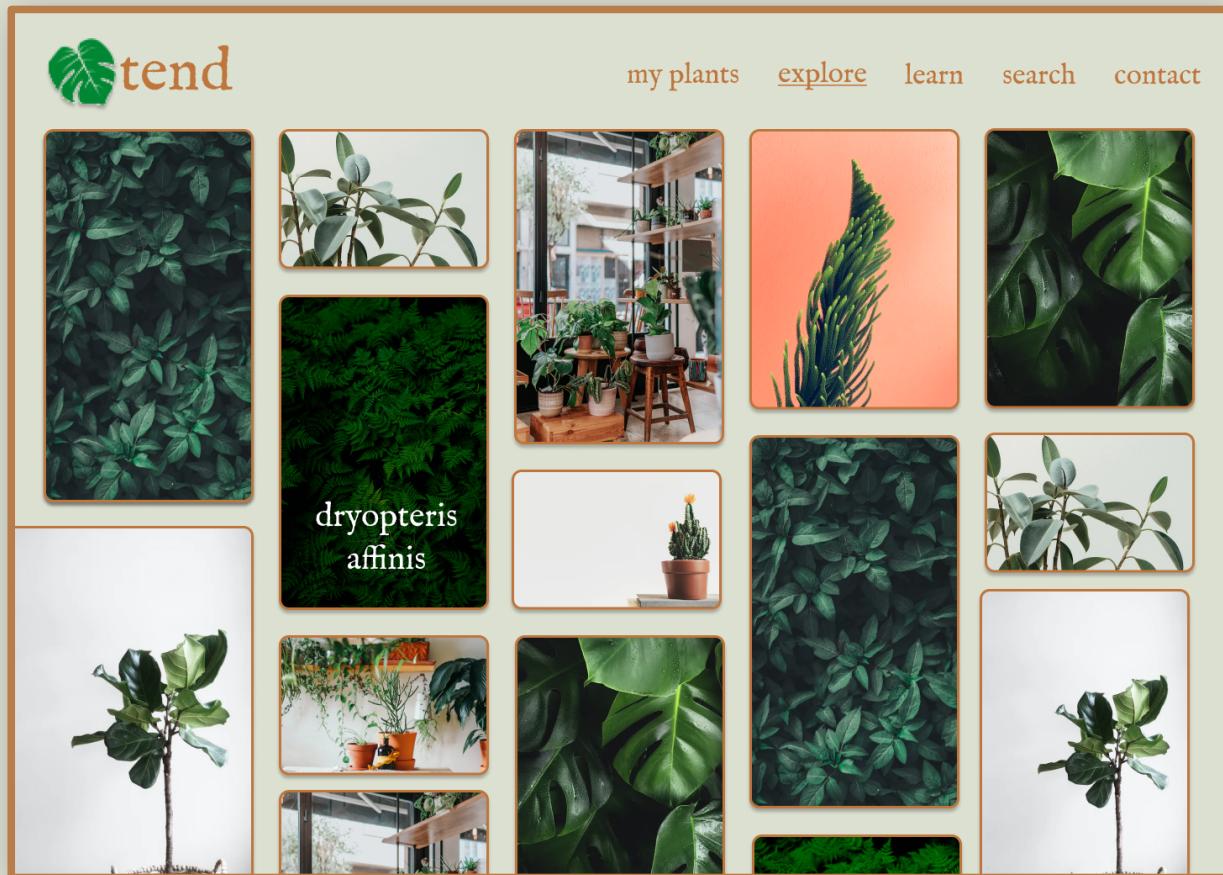
# Pages: IndividualPlantPrivate

The screenshots illustrate the 'IndividualPlantPrivate' page of the tend mobile application. The left screenshot shows the desktop version with a sidebar containing small images of various plants. The main area displays a plant named 'name' with a large, detailed image of its green, spiky leaves. Below the image is a green box containing the text 'This is a story about my plant!'. To the right of the image are several settings: 'species' (with a dropdown arrow), 'indoor' (with a house icon), 'outdoor' (with a sun icon), 'location: on' (with a location pin icon), 'water: auto' (with a water drop icon), 'fertiliser: auto' (with a fertilizer icon), 'pruning: monthly' (with a pruning icon), 'repot: every 2 years' (with a repot icon), 'see plant notes' (with a document icon), and 'help my plant!' (with an exclamation mark icon). The right screenshot shows the mobile version of the same page, where the plant image is the central focus, and the user can swipe left or right to see the next or previous plant in their collection. The settings are simplified to just 'species' (with a dropdown arrow), 'indoor' (with a house icon), and 'outdoor' (with a sun icon).

For users to easily and quickly move between plants, there will be a single column ImageGallery on the desktop version that contains all the users plants. Scrolling up or down on the image gallery will reveal more plants. On the mobile version, the user can swipe the plant image to view the next or previous plant in their collection.

tend will also allow the user to supply their location. This will allow the application to look at the weather in their area, and if the plant is located outside, automatically water the plants when it rains. It will also monitor temperature and adjust watering accordingly. This will use the HTML geolocation API, as well as an external weather API.

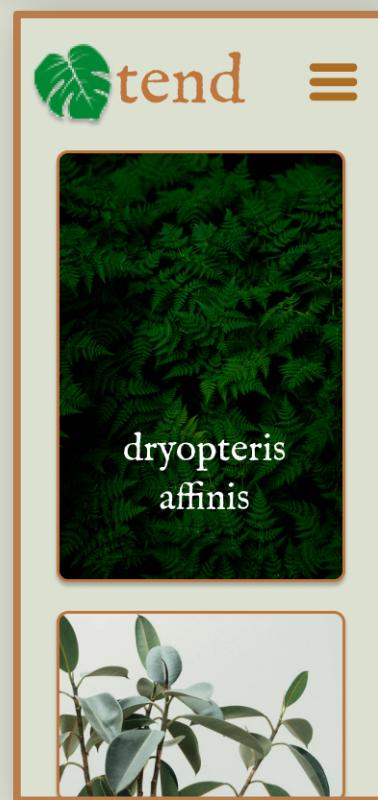
# Pages: ExploreGallery



## Share your plants with other people.

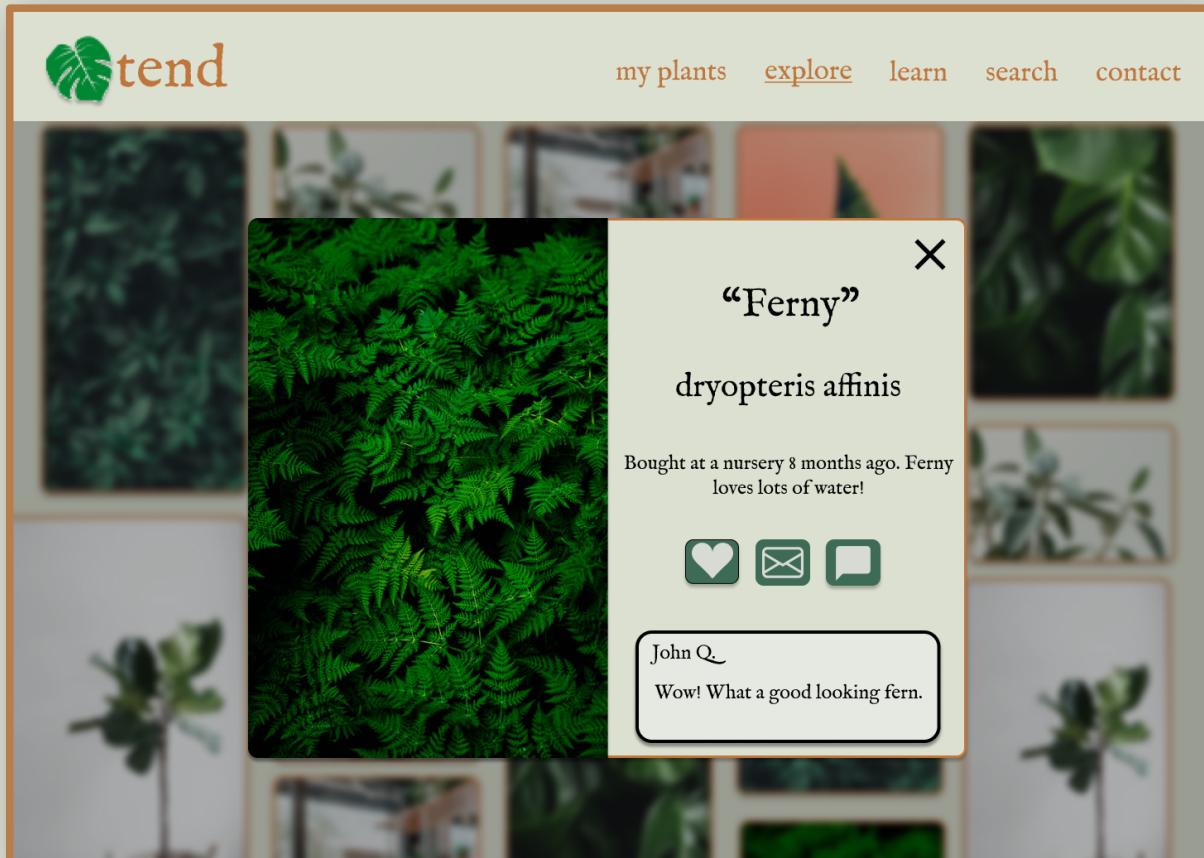
This page contains a scrolling screen of many different images of plants from many different users. It will be implemented using the ImageGallery.vue component.

On a desktop the user can hover over a plant to get the species of the plant. This includes a gentle fade in animation, again building on the users need for a calm experience. A click will open a pop-up with a small blurb about the plant. Since mobile users cannot hover, the user will go right to the "pop-up" information on click.



# Pages:

## IndividualPlantPublic



**A public page for each plant.** If the user chooses, they can have a public profile for their plant to show off their hard work and give another way to connect to other users.

The page will include a species name, a personalised nickname and a small amount of text pertaining to the plant.

This will use the PopUp.vue Component to display the information. There will be buttons to like, comment and direct message. From here, users can interact with a plant by leaving a comment, or messaging the user directly.

# Pages: Learn

The screenshot shows the 'Learn' section of the tend app. At the top left is the tend logo. To the right are navigation links: 'my plants', 'explore', 'learn' (which is underlined to indicate it's the current section), 'search', and 'contact'. Below these are three buttons: 'ask a question', 'answer a question', and 'see answered questions'. A 'select a category:' dropdown is set to 'watering'. Underneath is a heading 'suggested articles' followed by two cards. The first card, titled 'Watering your houseplant', features an image of a watering can and a small plant. The second card, titled 'Getting into bonsai', features an image of a bonsai tree. At the bottom is a button 'see all articles'.

**The gateway to learning.** There will be a number of buttons that allow the user to ask/view/answer questions. There will be a select box where users can select a specific category of articles they would like to view. Underneath will be a list of suggested articles. Another button will lead the user to see all articles from that category. Clicking on one article will open up it within ArticleDisplay.

This screenshot shows a preview of an article titled 'Watering your houseplant'. It includes a small thumbnail image of water droplets. The preview text is identical to the one in the first screenshot: 'When watering your houseplant it is important to remember a few things. Both over watering and under watering will negatively affect your plants health. Be sure to research the particular plant species to find out how much...'.

# Pages: ArticleDisplay



my plants   explore   learn   search   contact

**title**



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**title**



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This is a static page template that takes images, title and content as data. It will display it in a uniform fashion. This will be used for information about a plant species, or articles. Further images may be placed down further in the page. There will be a comment box at the bottom of every page for users to discuss the topics within the article.

# Components:

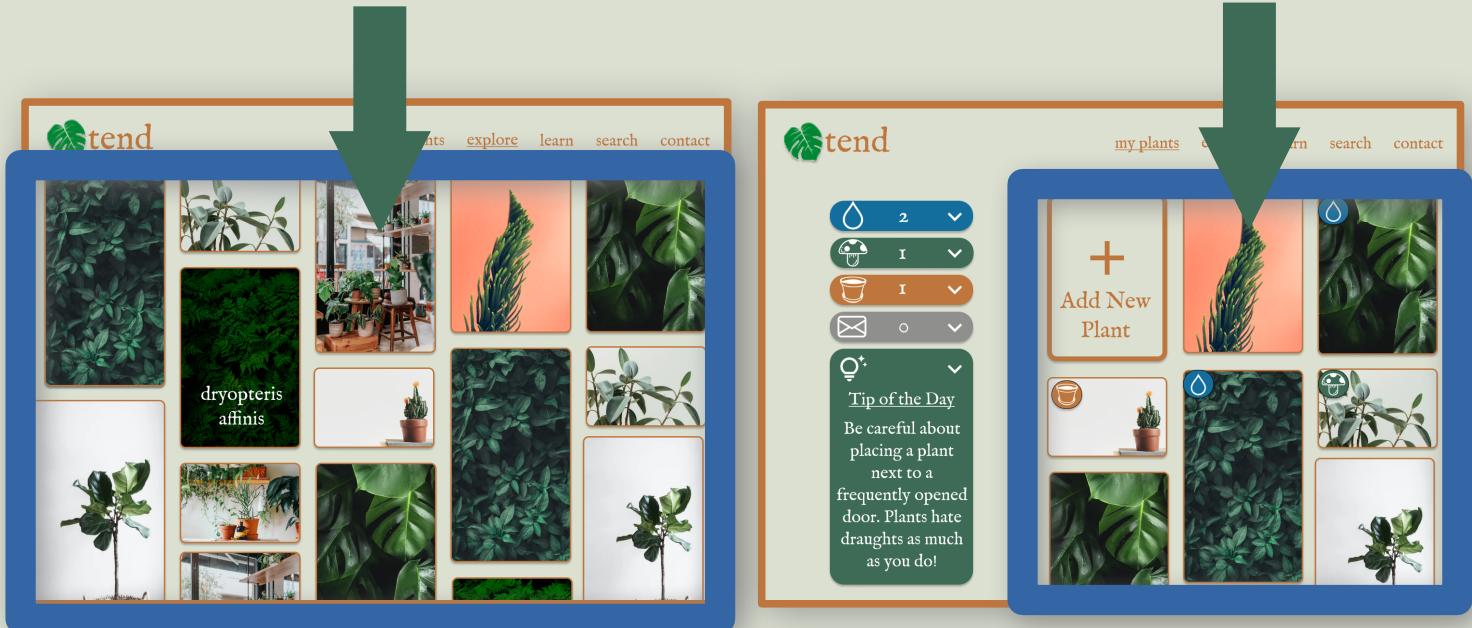
## DropDown



DropDown will take any template it is passed, and render it inside. This makes DropDown very reusable. Depending on whether the `isOpen` prop is true or false, the DropDown will be open or closed. Toggling this prop will trigger the animation. This animation will rely on JavaScript to measure the height of its contents dynamically. To appear as though the DropDown is sunken into the page, the inset box-shadow to create a shadow on both the top and the bottom. To ensure the sides aren't shadowed, The background div will be expanded passed its parent with `overflow hidden`.

This component will be frequently paired with the CloseIcon component which will handle the fade between the menu icon and the close icon.

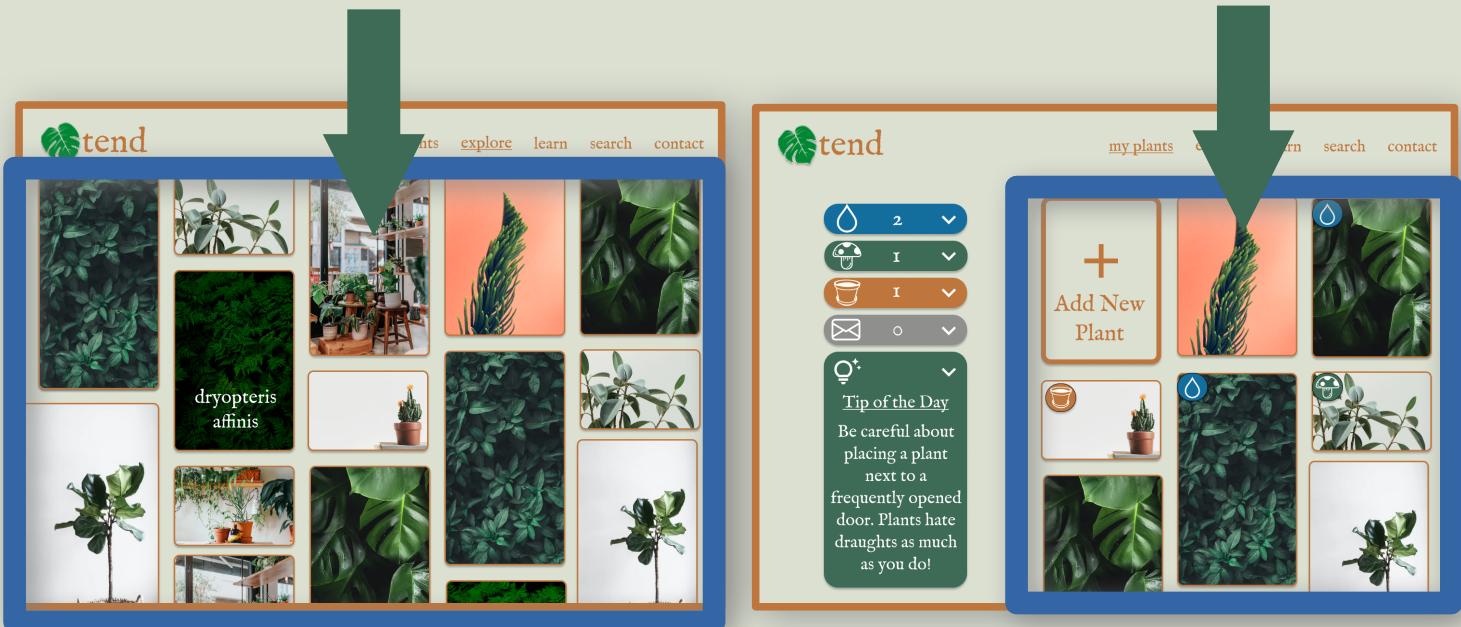
# Components: ImageGallery



The image gallery displays many ImageCard components in a column format. The width of these cards will be fixed, and the number of columns will be adjusted depending on the size of the gallery. The gallery will always be centered.

An array of objects will be passed in, containing the image link, title. These objects will be placed into columns, stored in a 2D array. They will be placed one row at a time, moving left to right, so that the top ImageCard in each column will be rendered first, then the second row, etc.. Then from this array, the columns will each be placed in a div, then each object within that column into an ImageCard. Depending on the size of the gallery, a specified number of images will be loaded to fill the screen.

# Components: ImageGallery

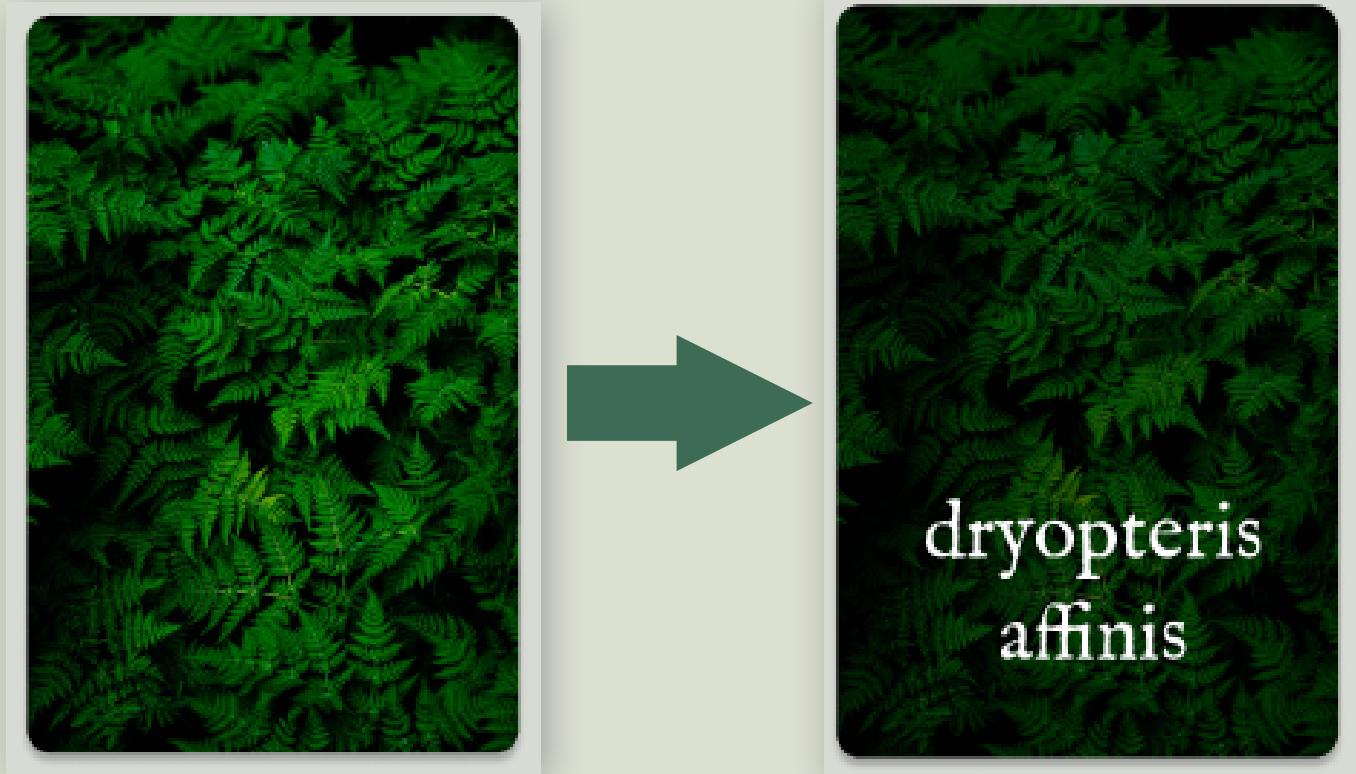


Another feature of the ImageGallery Component is infinite scrolling. This mimics the same concept used by many top apps. Once the user reaches the bottom of the page, more images will be automatically loaded, keeping the user engaged. This also helps with loading times, since not all images need to be loaded at once.

Having a vertical column-based design encourages the user to read top to bottom, and to scroll through the page. While a horizontal design would be easier to implement with flexboxes/grids/etc, the vertical design feels more intuitive. This design also doesn't force aspect ratios, compared to a grid design. This lets the image look its best!

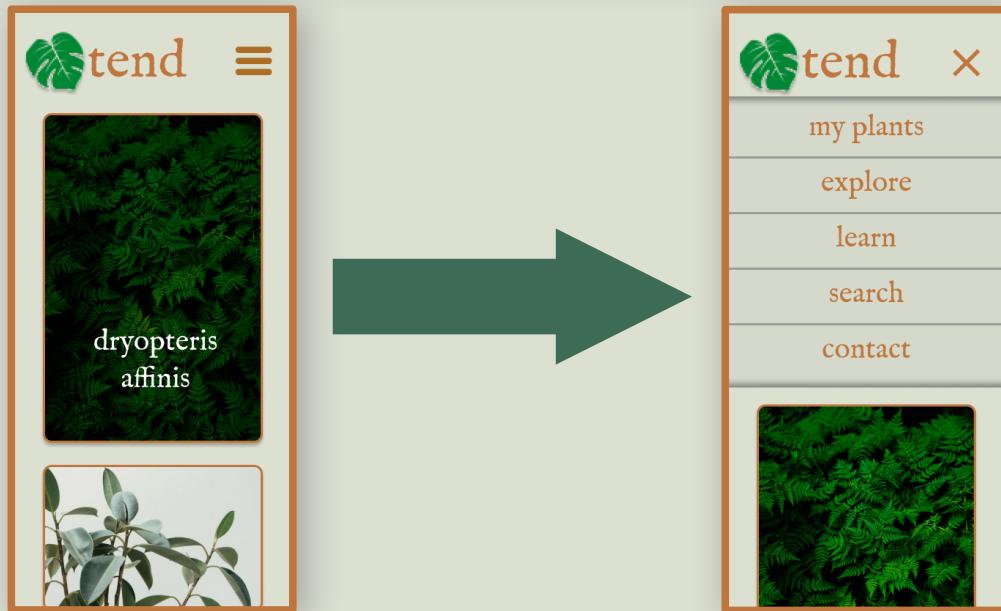
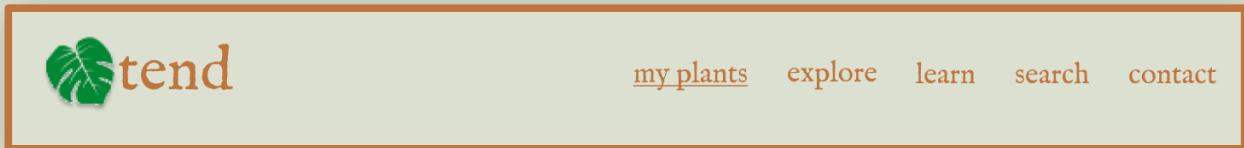
# Components:

## Image Card



ImageCard will take an image, hover text, and item id as props. When hovered, the image will darken slightly using a div layered on top with a slightly opaque background. White text from the "title" prop will be displayed on top. ImageCard will emit a custom click which will also pass the plant object back.

# Components: NavigationBar

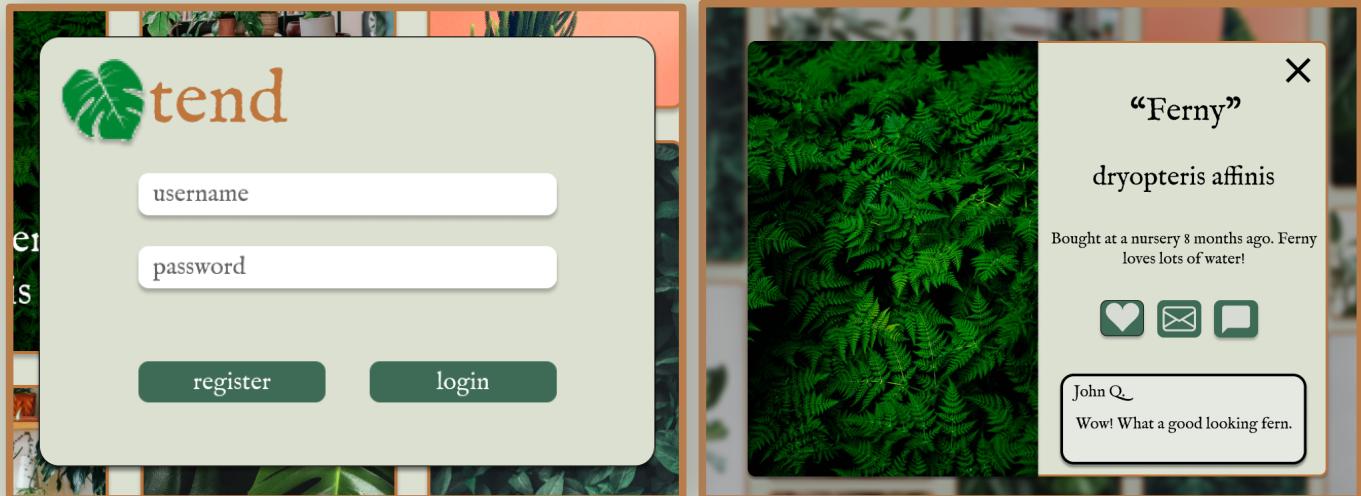


NavigationBar will take a list of objects as data. Within the objects will be the text to display for the link, as well as the target. It will then insert this data into the template, dynamically create as many navigation links as required and float them to the right. The template will use the MainLogo component to render the logo and "tend" text. It will

For smaller screens the DropDown component will be used, passing in the navigation links. Each link will have a border top and modified padding creating the line effect present in the mock up.

The user will then be able to select a link, choosing which component is displayed, handled by the VueRouter.

# Components: PopUp

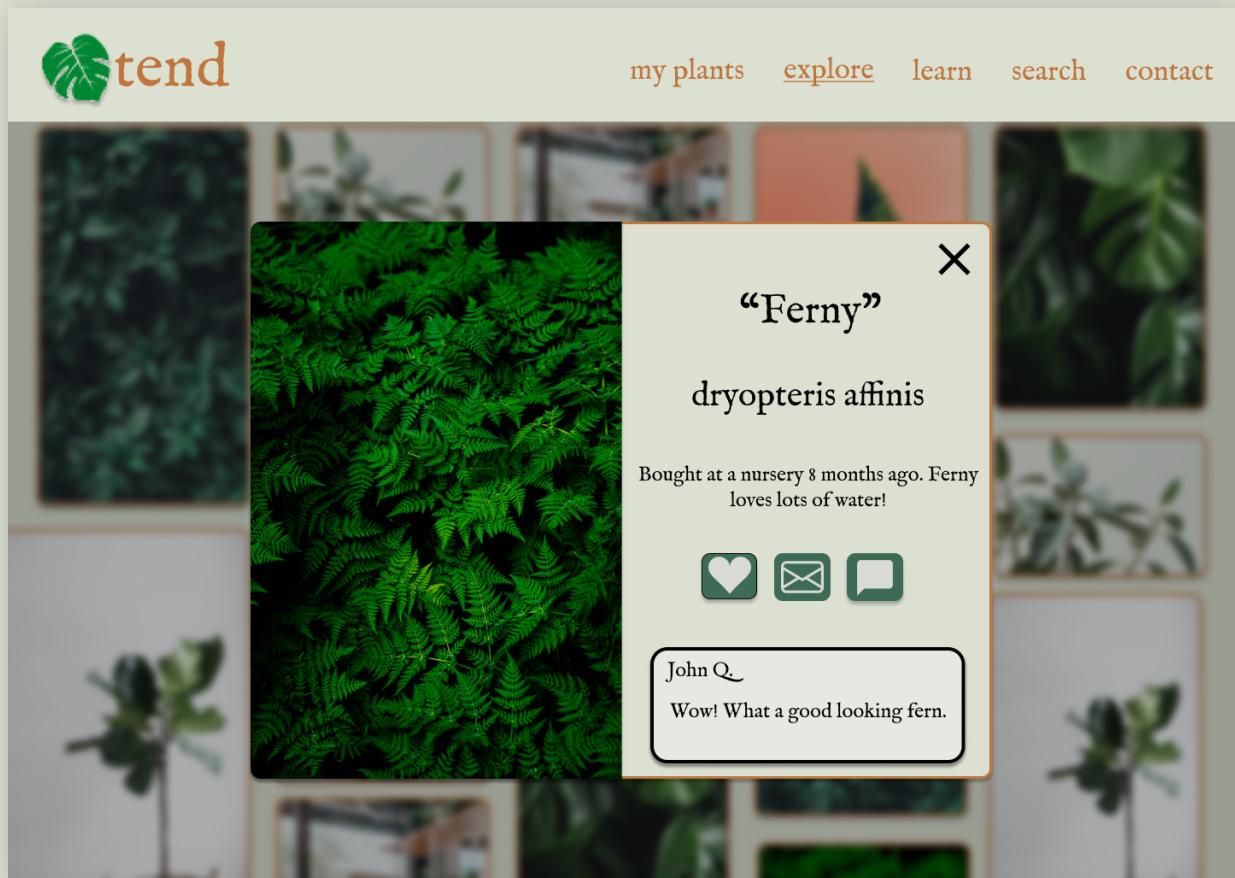


The pop-up window will appear as though it is opened over top of the previous page. To achieve this I will first create a background div, which will have a semi-opaque background to increase clarity. The pop-up itself will be placed in this div with a box shadow to increase the perceived floating effect. It will fit to whatever size content is placed inside.

It can be closed, either with the close button, or by clicking the background.

Different options can be passed in, modifying the behaviour of the PopUp. If **closable** is **false** the user cannot close the pop up. This is used in the login form. The form also uses the **scrollable** option, where the user can scroll past the popup to view more content, and does not have the same semi-opaque background.

# Components: PopUp Continued



The public plant profile will be displayed using the PopUp component.

The size of the floating div will be created by first loading the image into JavaScript Then modifying the height of the pop-up window dynamically, then finally loading the image into the document. This allows the desktop version to be exactly the height of the image, and exactly double the width.

The mobile version will be 1.2 times the height and the same width. This allows the image to not be stretched.

# Components: PublicPlantProfile

The layout will change depending on the screen size. For larger screens, the image will be on the left hand side of the div. On the right will be the text.

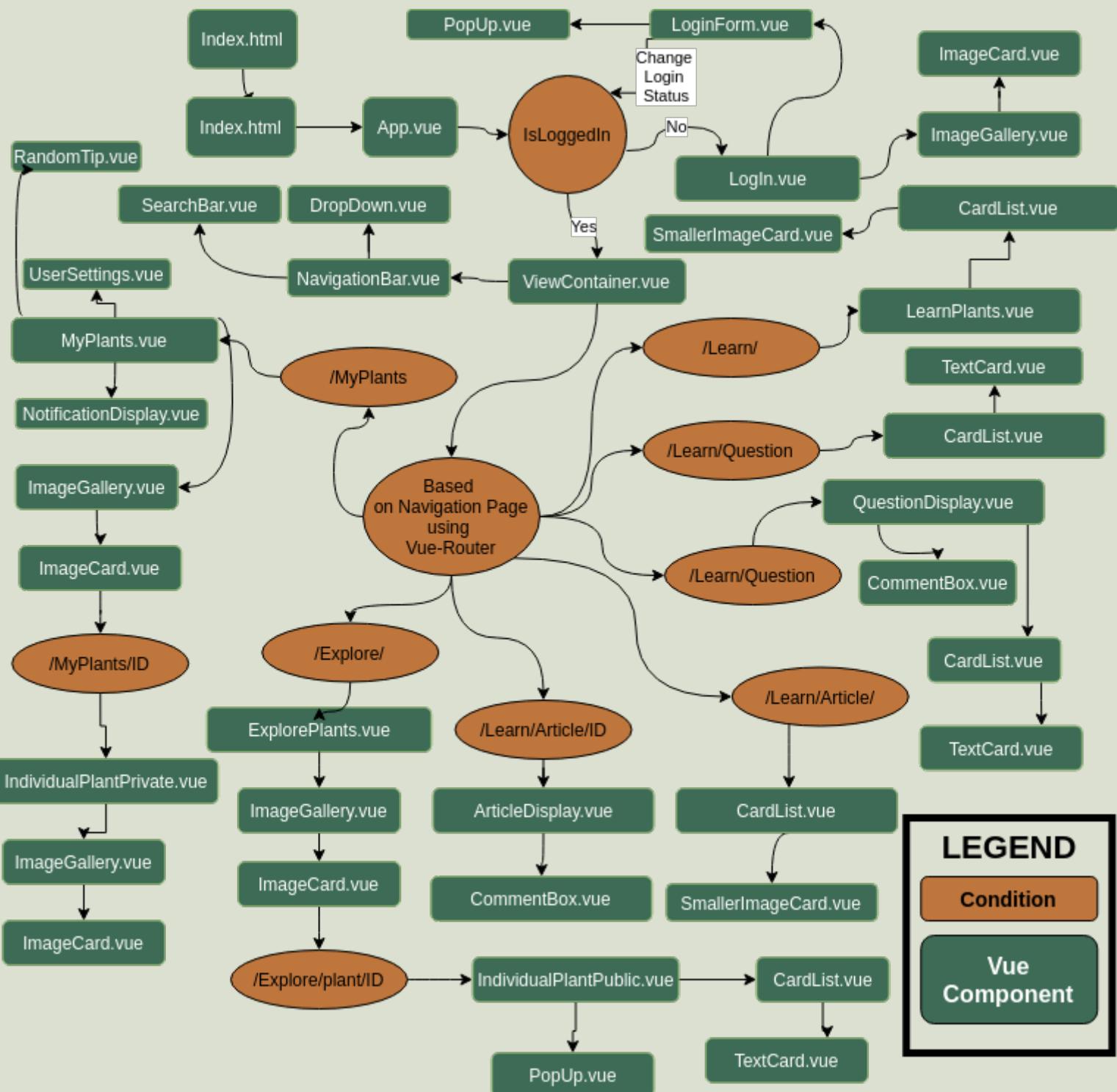
The layout will change depending on the screen size. For larger screens, the image will be on the left hand side of the div. On the right will be the text.

There will be an outer container which will allow the text to be scrollable if it is larger than the box, while not scrolling the image. On smaller screens, the text will be underneath the image.

The text on the inside will use simple h3, h4 and p tags. Action buttons will be loaded underneath the text. The content will be taken from the plant object that is passed in.



# Component Diagram



# Assets

## **index.html**

This will be the base of the website where Vue will be loaded. It includes a message that states JavaScript is required if the user has disabled JavaScript.  
**[HTML file, static]**

## **style.css**

This style-sheet will contain all the common styles for the entire application such as fonts families, etc.  
**[Stylesheet, Static]**

## **main.js**

Initialises Vue.  
**[Javascript File, Static]**

## **App.vue**

The root component of the application. This will also control what view is displayed on the screen using the Vue Router.  
**[Singleton Component]**

## **Login.vue**

The entry page where the user can login.  
**[Singleton Component, Responsive]**

## **DropDown.vue**

A higher-order component that renders a passed in component inside a drop down style element.  
**[Many, Interactive]**

# Assets

This interactive component will contain a form with verification-enabled inputs for email and password. The same form will be used for registration with a button to toggle between the two

## **LoginForm.vue**

On successful login/registration (temporarily mocked successful), the window will be automatically redirected to MyPlants.  
**[Singleton Component, Interactive]**

## **NavigationBar.vue**

Controller to handle user input to switch between pages with the help of VueRouter.  
**[Singleton Component, Interactive, Responsive]**

## **ExplorePlants.vue**

Displays the Explore page, using ImageGallery.  
**[Singleton Component, Interactive, Responsive]**

# Assets

<b>ImageGallery.vue</b>	This responsive element that displays many ImageCard.vue in a column layout. <b>[Many, Responsive]</b>
<b>ImageCard.vue</b>	An component that presents a clickable image in a card. It handles hover effects and style. <b>[Many, Interactive]</b>
<b>PopUp.vue</b>	Creates the illusion of a pop up window within the application. Will have multiple formats depending on what options are selected. <b>[Many, Responsive]</b>
<b>IndividualPlant-Public.vue</b>	Uses PopUp.vue to display an image, nickname, description, action buttons and comments for a certain plant profile. <b>[Many, Responsive, Interactive]</b>
<b>DropDown.vue</b>	A higher-order component that renders a passed in component inside a drop down style element. <b>[Many, Interactive]</b>

# Assets

## **IndividualPlant- Private.vue**

An array of all plant images and the specified plant ID will be passed in, and then IndividualPlantPrivate will get all the plant information from a backend server (but will be mocked for this demonstration) and display it (image, name, etc.).  
**[Many, Responsive, Interactive]**

## **RandomTip.vue**

A simple and static component that formats and displays a string passed in for the tip of the day.  
**[Many, Passive]**

## **LearnPlants.vue**

The entry point for many of the learning articles within tend. Leads to other articles and discussion forums.  
**[Singleton, Interactive, Responsive]**

## **UserSettings.vue**

A simple form style page that allows the user to modify account settings. Submitted forms will be posted to the back-end server.  
**[Singleton, Interactive, Responsive]**

# Assets

## Contact.vue

A simple web page with a form for emailing the company, as well as the privacy policy and terms of use. The form contains inputs for name, email, message type and message.  
**[Singleton, Interactive]**

## NotificationAlerts.vue

Uses DropDown.vue to create an expanding notification window that lists the plants that need actions.  
**[Many, Interactive]**

## AddNewPlant.vue

A simple box that mimics a card in the image gallery. It creates a new plant profile and sends the user to that new page to enter the information needed.

**[Singleton, Interactive]**

## ArticleDisplay.vue

A simple page that displays an image, title and text. For large text based articles in the Learn section.  
**[Many, Responsive, Passive]**

## Notification-Icons.vue

Choose from multiple icon options. Pass in the value needed to render the appropriate icon.  
**[Many, Interactive]**

# Assets

## Question-Display.vue

Contains a list of question and answer cards. Depends on CardList.vue to display these cards.  
**[Singleton, Passive]**

## CardList.vue

This component is passed in a list of cards to display, using the specified card type to render them.  
**[Many, Responsive, Interactive]**

## SmallImage-Card.vue

A small image on the left hand side with a title and description of the article on the right. This will be used primarily for displaying articles in a list. The title and a short description will be displayed.  
**[Many, Interactive]**

## TextCard.vue

Only text in this card. Title and the text must be given. These will be used primarily to display questions and comments, where the title will be the user, and the text will be the question/comment.  
**[Many, Passive]**

## CommentBox.vue

A simple textarea with a submit button. Given a link to post to after the comment is submitted.  
**[Many, Interactive]**

# Assets

## **ToggleSetting.vue**

A simple component that when clicked, modifies the value of a field. The user can toggle between two options. Visually it will be represented by a circle that is animated back and forth over a line.  
**[Many, Interactive]**

## **SearchBar.vue**

A small input component that will be inside a DropDown.vue, accessed from NavigationBar.vue.  
**[Singleton, Interactive]**

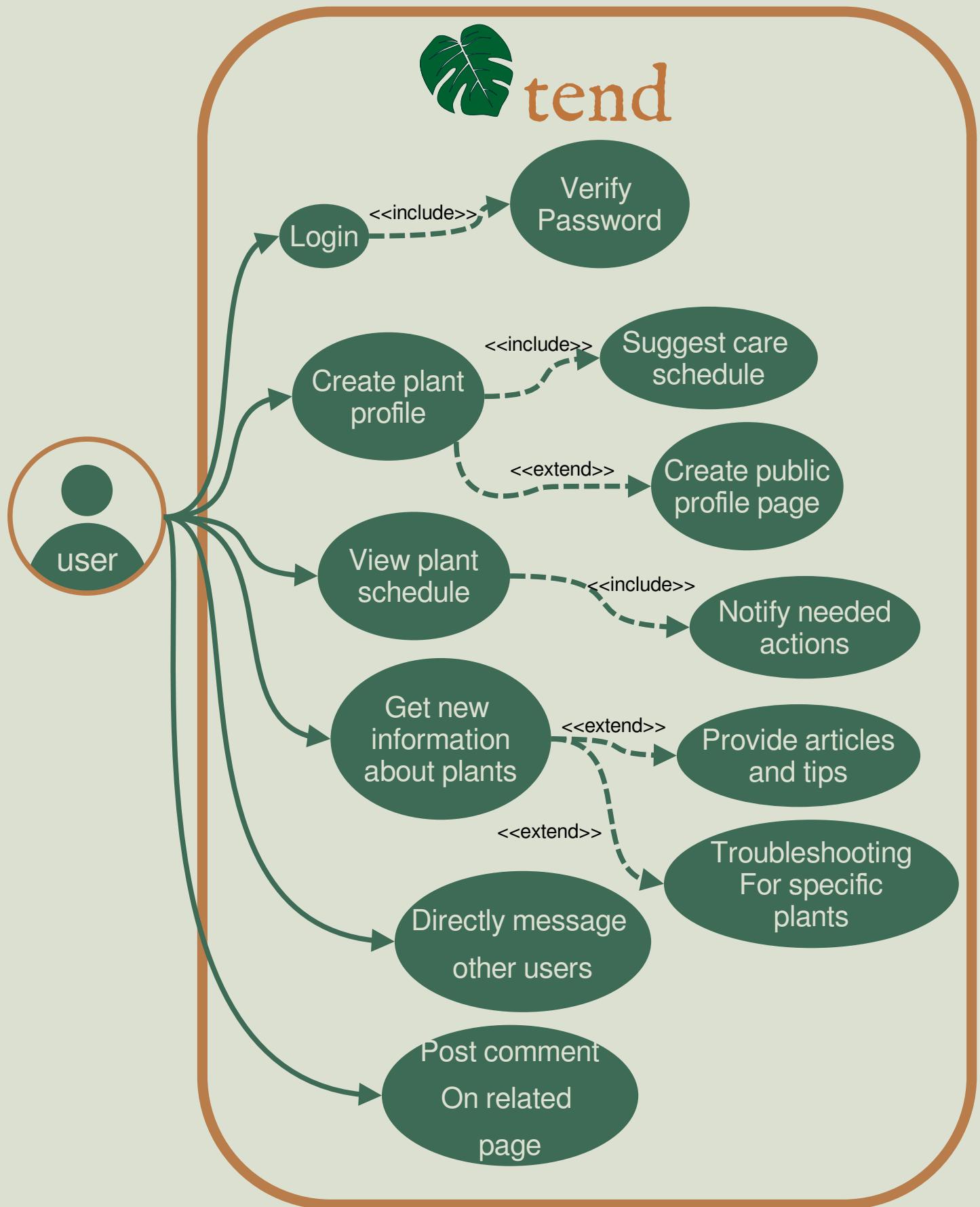
## **Logo.svg**

Image of the logo. Uses SVG format so that scales well.  
**[Image]**

## **{Icon}Icon.svg**

Custom icons to be used throughout the website. {Icon} will be replaced with the identifier for that icon, for example "WaterIcon.png" will be for a water icon. Also use SVG format for scaling.  
**[Image]**

# Use Cases



# User Stories

## Epic Stories

**Epic #1:** As a person with many plants, I would like to be able to keep track of the schedules for these plants so they can be healthy.

[Priority: High]

**Epic #2:** As a person who is new to horticulture, I would like to get new information about plants so that I am informed about how to care for them

[Priority: Medium]

**Epic #3:** As a social person, I would like to be able to share my plants, and interact with others, so that I am able to share experiences and ideas.

[Priority: Low]

## Acceptance Criteria [Referenced User Story]

1. Create a plant profile. [1]
2. Have the website generate a schedule based on the plant chosen, and be able to tweak that if necessary. [2]
3. Notifications based on required scheduled events. [3]

1. Search for information on specific plants. [4]
2. Show new, useful tips. [5]
3. Find general horticulture advice. [5]

1. Discussion forum based on plant species. [6]
2. Share photos of plants. [7,8]
3. Interact with other users directly. [6]

## User Stories

## Acceptance Criteria [Referenced Sub Story]

**User Story #1:** As a user, I would be able to create a plant profile so that I can store information about my plants.

[Priority: High]

1. Input information about plants. [1, 2]
2. Upload image of plant. [1,2]
3. Select species of plant. [1,2]

**User Story #2:** As a user, I would like auto-generation of a schedule for my plants that I can adjust, so that I am able to see when I need to water/fertilize/re-pot my plants.

[Priority: High]

1. Auto-generate schedule based on species and climate. [2]
2. Modify frequency of actions manually. [2]
3. Regeneration of schedule if action occurs (Example: user waters plant). [3]

**User Story #3:** As a user, I would like notifications about necessary actions so that I don't forget to water a specific plant.

[Priority: High]

1. Show notifications clearly.[3]
2. Simple actions by clicking notifications. [3]

**User Story #4:** As a user, I would like to be able to search for information on specific plants so that I am able to anticipate the level of care for a future plant, or properly care for a current plant.

[Priority: Medium]

1. Search For species of plant. [4]
2. Get ideal schedule for specified plant. [5]
3. Get trouble shooting guide for specific plant. [5]

## User Stories

## Acceptance Criteria [Referenced Sub Story]

**User Story #5:** As a user, I would like to be shown new horticulture tips, so that I am able to learn about new topics and concepts.  
**[Priority: Medium]**

1. Randomly display a tip of the day. [6]
2. A "How-To" guide for basic horticulture principles and techniques. [7]

**User Story #6:** As a social user, I would like to discuss and exchange horticulture related ideas so I can expand my knowledge on more advanced topics, or ask more experience users for help.

**[Priority: Low]**

1. Post to a discussion forum. [8]
2. Message users directly. [9]

**User Story #7:** As a social user, I would like to share photos of plants I have grown so that I can proudly show off all my hard work.  
**[Priority: High]**

1. Add a photo to a plant profile. [2, 10]

**User Story #8:** As a plant enthusiast, I would like to browse photos of other plants so that I can gain inspiration and enjoyment.  
**[Priority: Low]**

1. Browse other plant profiles. [11]

## Sub Stories

## Acceptance Criteria

**Sub Story #1:** As a user I would like to login or create an account so that I can store information for later.

[Priority: High]

1. Text input for username, password and a box to remember me.
2. Button to register a new user, with the ability to input username, email, password. After registration, user is asked to login with new credentials
3. Successful login returns user to a personal home screen

**Sub Story #2:** As a user I would like to input information about my plants so that I can reference it later.

[Priority: High]

1. Text input for title, notes.
2. Select species of plants using an autocomplete box.
3. Upload image.
4. Suggested water timings, fertilization and re-potting values which can be modified.

**Sub Story #3:** As a user I would like to interact with my plants so I can record times I have watered, fertilized, etc..

[Priority: High]

1. Quick buttons for watering, fertilizing, re-potting.
2. Generic action button for recording notes.
3. Confirmation window to confirm actions in case of mistaken click.

## Sub Stories

## Acceptance Criteria [Referenced Sub Story]

**Sub Story #4:** As a user I would like to search for species of plants, so I can easily find what I am looking for.

[Priority: Medium]

1. Text input with autocomplete for searching.
2. List relevant search results based on selected filters.

**Sub Story #5:** As a user I would like to get information for specific species.

[Priority: Medium]

1. Display generic information relating to species.
2. Display usual watering schedule, humidity, and other care tips.
3. Display troubleshooting guide for an unhealthy plant

**Sub Story #6:** As a user I would like to get random tips of the day for plants that I am interested in.

[Priority: Medium]

1. Tip is based on a list of plants/topics which interest the user.
2. Tip is displayed on the personal home screen.

**Sub Story #7:** As a user I would like to learn the basics of horticulture to ensure I am doing things correctly.

[Priority: Medium]

1. Written articles explaining certain topics.
2. Browse all articles or search for specific

## Sub Stories

## Acceptance Criteria [Referenced Sub Story]

**Sub Story #8:** As a user I would like to post to the discussion forum so I can discuss and share ideas with others.

[Priority: **Low**]

1. Browse previous posts based on topic.
2. Text box for writing the post.
3. Click a button to submit the post

**Sub Story #9:** As a user I would like to message other users directly.

[Priority: **Low**]

1. Click on users profile to message.
2. Text box for writing the message.
3. Click a button to submit the message

**Sub Story #10:** As a user I would like to create a public profile for my plant.

[Priority: **High**]

1. Add public profile message to plant.

**Sub Story #11:** As a user I would like to learn the basics of horticulture to ensure I am doing things correctly.

[Priority: **Low**]

1. As a user I would like to browse other plant photos.
2. Browse all articles or search for specific

# Proof of Concept

To see the proof of concept, please visit:

<https://github.com/BrandonMurch/SIT120/tree/main/Assignment%201/updated-proof-of-concept/tend>

With a live demo on:

[tend.brandonmurch.com](http://tend.brandonmurch.com)

# Feasibility

While it does potentially seem like a fairly large task at the moment. I think the reusability of the Vue components will make this task much easier. For example ImageGallery will be used across a few other components, but it only has to be designed once.

With 9 major pages/components to create, as long as I am able to complete 1.5 pages a week, I will be able to complete this assignment with extra time for testing. Considering most pages have already been designed, implementation should be fairly straight forward.

# References

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