# ROOTED

This web application allows users to explore, compare, and analyze different plant species. Using data from The Perenual Plant API that provides detailed information on each plant, including their common and scientific names, growth rates, sunlight requirements, watering preferences, and other essential care information. Users can browse a variety of plants, compare them side by side, and track their preferences for better plant care decisions. The app also includes a navigation system for users to easily switch between pages like Home, Analyze, and Track. The project aims to assist plant enthusiasts, gardeners, and anyone interested in improving their plant knowledge

## API Reference

Get detailed items- most info

```
GET https://perenual.com/api/v2/species/details/[ID]?key=sk-t2rw67e45bcab1ab29435
```

ParameterTypeDescriptionapi_keystringRequired. Your API keyIDintegerPlant ID eg.2

Get item - less info

```
GET https://perenual.com/api/v2/species-list?key=sk-t2rw67e45bcab1ab29435
```

ParameterTypeDescriptionapi keystringRequired. Your API key

api keys to use

```
sk-OxsE67e4efbb6cc6e8858
```

## Features

Features Explore Plants: View detailed information about different plant species, such as their common names, scientific names, sunlight requirements, and watering preferences.

Compare Plants: Compare the characteristics of multiple plants side by side to find the one that suits your needs best.
Track Preferences: Users can track their plant preferences and details for easy reference.

Asynchronous API Calls: The app fetches plant data from an external API, making it responsive and up-to-date.

React Router: Easy navigation between different sections of the app like Home, Analyze, and Track.

Select and view the change of graphs on a timeline section

## Deployment

To deploy this project - make sure you are in folder my-react-app

```
pwd
```

then

```
cd/"Rooted root"/my-react-app
```

then

```
npm intall
```

lastly

```
npm start
```

## Technology used

Frontend: React, React

API: Perenual API for plant data

HTTP Requests: Axios (for fetching data)

CSS: Custom CSS for styling

JavaScript: ES6+ for modern JavaScript features

## Usage

Once you've launched the app, you will be able to:

Home Page: Browse through a list of plants with key information

Analyze Page: Compare selected plants side by side based on their characteristics

Track Page: Track your plant preferences and manage the plants you want to learn more about.

## Documentation

This project utilizes the Perenual API to fetch plant data. Each plant's details are fetched using asynchronous requests made with Axios. That makes sure to handle API errors gracefully for a seamless user experience.

https://perenual.com/docs/api

## Contributing

We welcome contributions to this project. Feel free to:
Fork the repository.
Create a new branch (git checkout -b feature-name).
Commit your changes (git commit -am 'Add feature').
Push to the branch (git push origin feature-name).
Create a new Pull Request.
Installation
Install my-project with npm
 npm install my-react-app```bash
npm start
## API response

**The data returned from the API is an array of plant objects, each containing various attributes like:**

common_name: The common name of the plant

scientific_name: The scientific name of the plant

growth_rate: Growth rate of the plant (e.g., moderate, fast)

sunlight: Sunlight requirements (e.g., full sun, partial shade)

watering: Watering requirements

description: A short description of the plant

image_url: An image URL for the plant

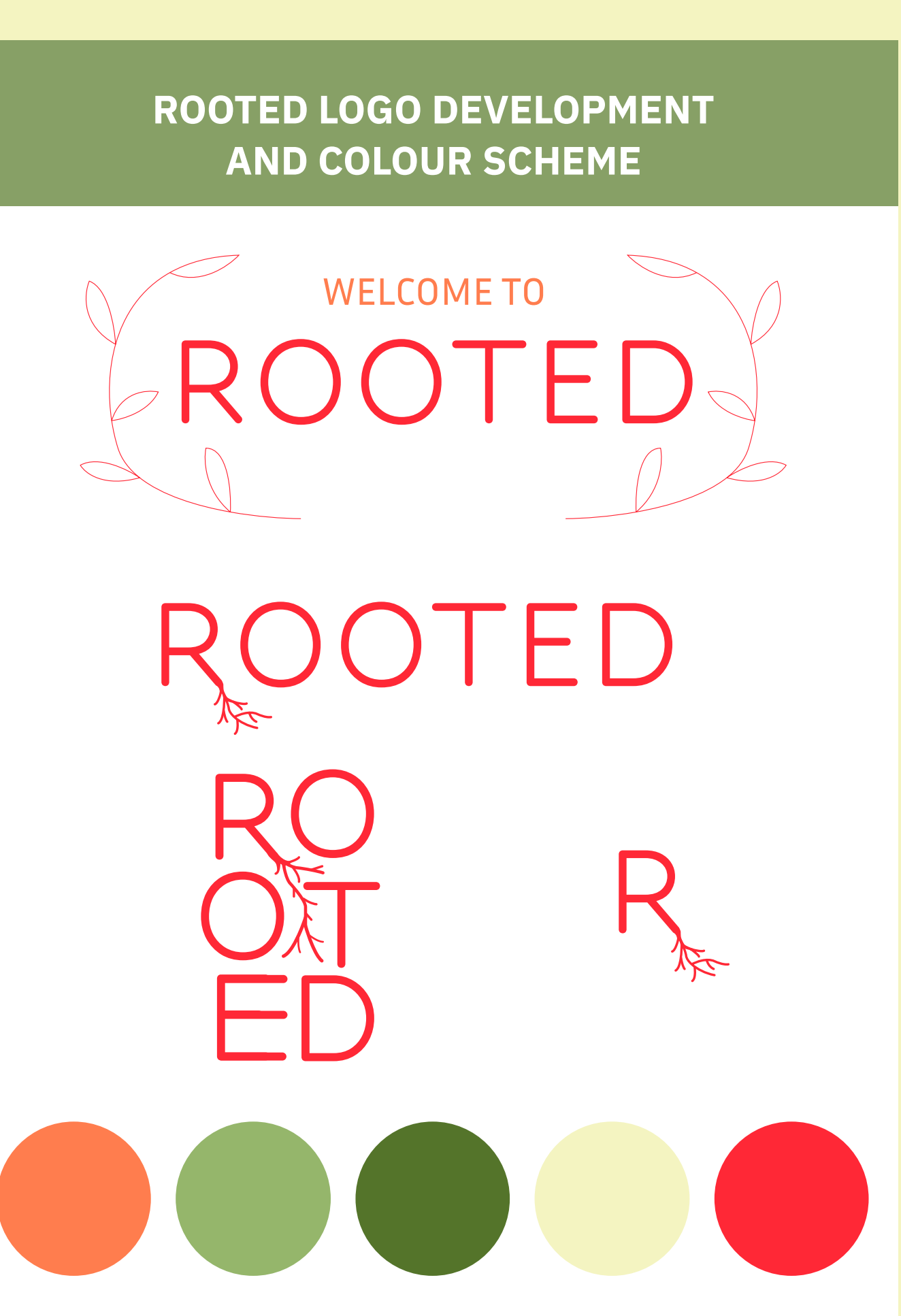
## Known Issues

The app is currently limited to 3 plants for testing. The API allows only 100 requests per day, and data will be populated as per availability.

There might be minor delays in fetching plant details due to API rate limits. They reset after 24H - So if there is an API issue, wait 24H.

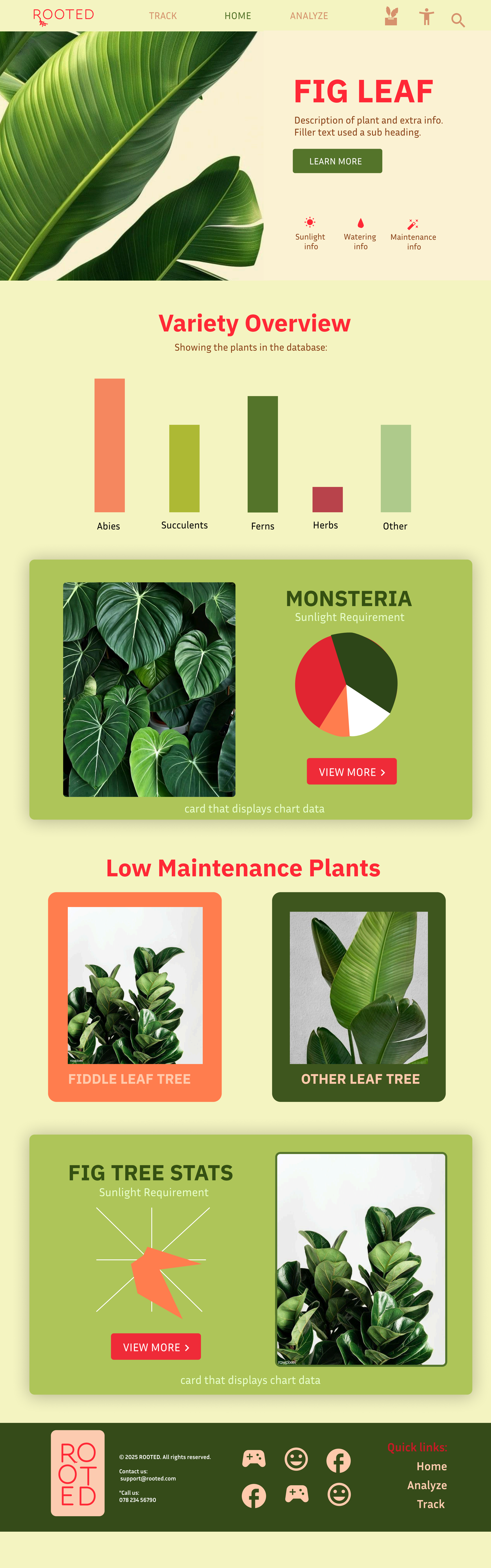
## Brand Creation and Wireframes

### ROOTED LOGO DEVELOPMENT AND COLOUR SCHEME


WELCOME TO
ROOTED
ROOTED
RO OT ED
R

The UI/UX used in this project intend to provide a clear, responsive, and engaging experience for users. The use of vibrant greens complements the plant theme, while the bright pink and coral colors add a playful and eye-catching touch. These colors create an intuitive hierarchy, guiding users through the interface without overwhelming them. The layout is designed to be responsive, ensuring optimal display on all devices. By following UI/UX principles, the design ensures information is presented in a structured, accessible manner, making navigation easy and enjoyable.

## HOME PAGE


ROOTED
TRACK
HOME
ANALYZE
FIG LEAF
Description of plant and extra info.
Filler text used a sub heading.
LEARN MORE
Sunlight info
Watering info
Maintenance info
Variety Overview
Showing the plants in the database:
Abies
Succulents
Ferns
Herbs
Other
MONSTERIA
Sunlight Requirement
VIEW MORE >
card that displays chart data
Low Maintenance Plants
FIDDLE LEAF TREE
OTHER LEAF TREE
FIG TREE STATS
Sunlight Requirement
VIEW MORE >
card that displays chart data
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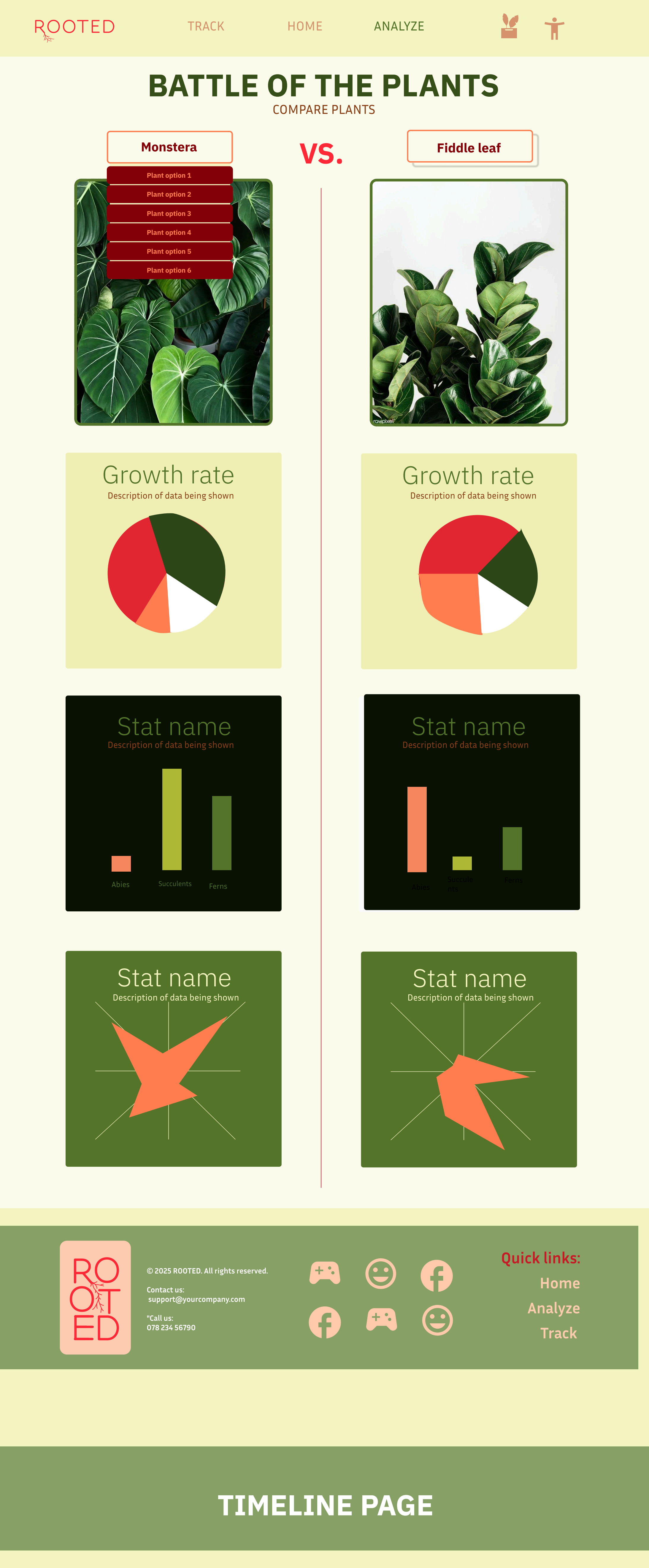
Contact us:
support@rooted.com
"Call us:
078 234 56790
Quick links:
Home
Analyze
Track

## COMPARE PAGE


ROOTED
TRACK
HOME
ANALYZE
BATTLE OF THE PLANTS
COMPARE PLANTS
Monstera
Plant option 1
Plant option 2
Plant option 3
Plant option 4
Plant option 5
Plant option 6
VS.
Fiddle leaf
Growth rate
Description of data being shown
Growth rate
Description of data being shown
Stat name
Description of data being shown
Abies
Succulents
Ferns
Stat name
Description of data being shown
Stat name
Description of data being shown
Stat name
Description of data being shown
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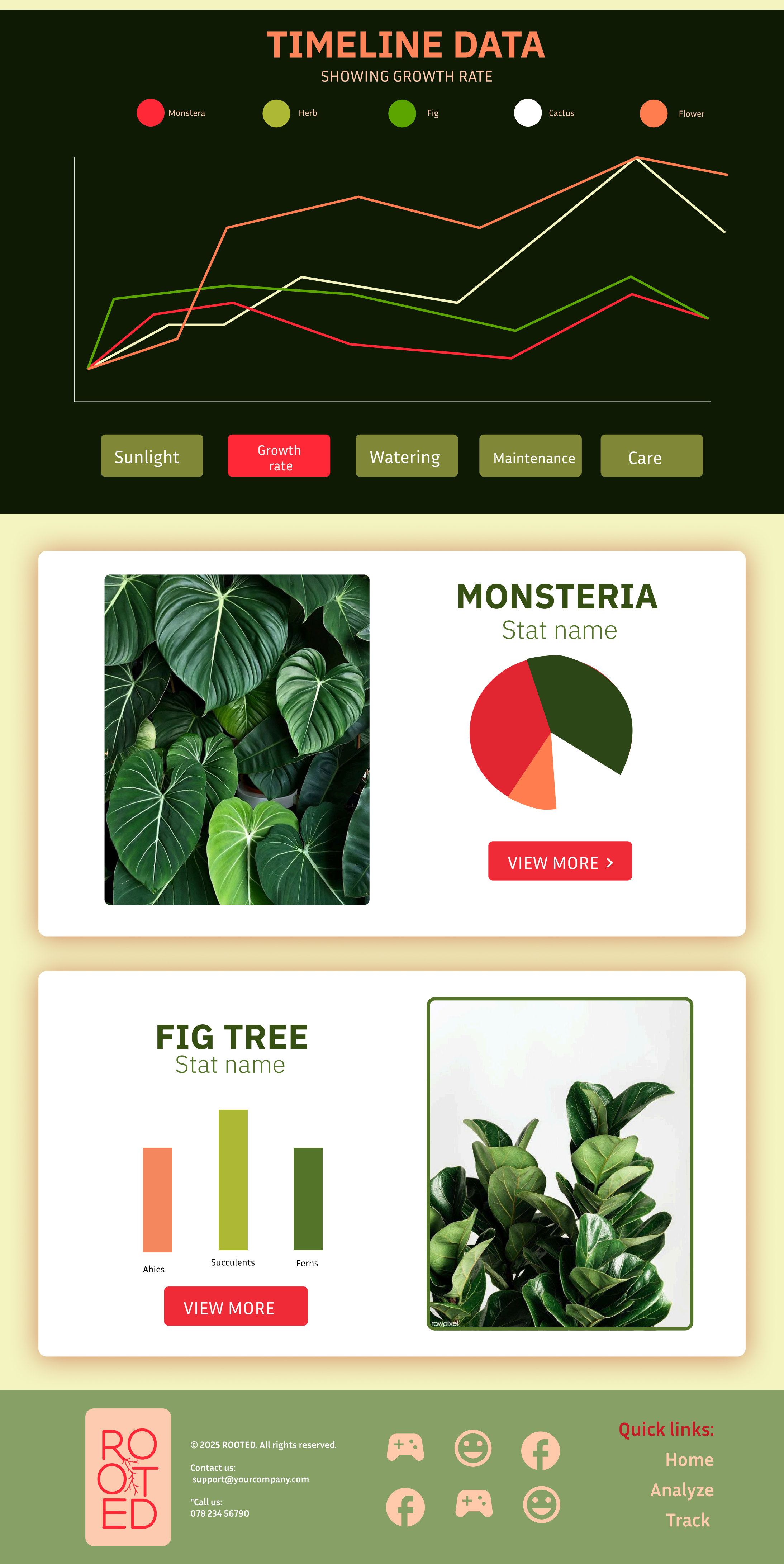
078 234 56790
Quick links:
Home
Analyze
Track

## TIMELINE PAGE


ROOTED
TRACK
HOME
ANALYZE
TIMELINE DATA
SHOWING GROWTH RATE
Monstera
Herb
Fig
Cactus
Flower
Sunlight
Growth rate
Watering
Maintenance
Care
MONSTERIA
Stat name
VIEW MORE >
FIG TREE
Stat name
Abies
Succulents
Ferns
VIEW MORE
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© 2025 ROOTED. All rights reserved.
Contact us:
support@yourcompany.com
"Call us:
078 234 56790
Quick links:
Home
Analyze
Track