

Plantopedia

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Description

- Web application connects to an API which contains over 400,000 different species of plants with data
- A user is able to search and query over plants using keywords and search criteria
- When a user finds a plant they are interested in they can click the plant which reveals a detailed description of said plant followed by other data and images



Features

- Hitting the Trefle API to gain access to plant data
- Using a Java controller to handle and pass data into view
- Display data passed by controller in a way that is easy to read and appealing to look at



Planning - User Stories

- As a user I can filter through a list of plants via a search tool
- The option to expand a plant to view a more detailed description along with extra data and pictures
- Have an option to view all plants which displays a list of every plant, its name, scientific name, and an image.



Planning - Database

- Databases are for user logins and plant data
- Plant data has been imported from Trefle API. This allows our search function on our application to access the needed information



Technology Stack

- Java
- Thymeleaf
- MySQL
- IntelliJ IDEA 2022
- Spring MVC



Demo



What I Learned

- I've learned a lot about using Thymeleaf to manipulate and display data.
- I was able to connect and pull information from an API which is something I have never done before
- My general Java skills have improved throughout working on this application and I now have a much greater understanding of how and why it is used to handle data on the backend of an app.
- I now have a good grasp of git and how it is used by a group while working on an application together



What's Next

- I would like to expand on our user profiles more and allow them to leave comments on a plant and add it to their personal list of favorites
- Using bootstrap to give our application a more appealing and unified appearance
- I would like to start a project and incorporate some Python. I have learned basic Python skills and would like to expand on what I already know and become more proficient.

