Github Go

Team 10

Meet, Minh, Leonel, Gerardo
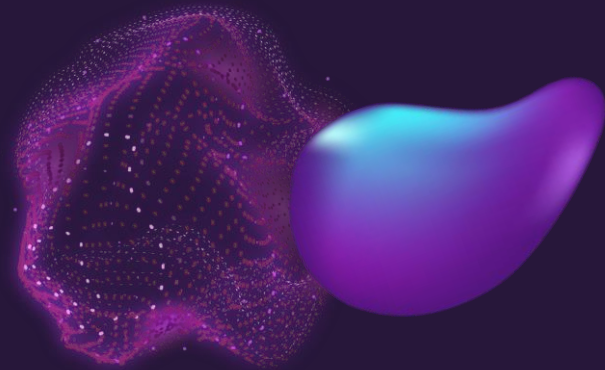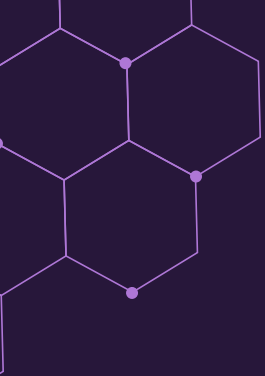
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About Github Go

- Github Go provides information regarding a project, given a username and repository name.
- The site provides a visual representation of a user's contribution to a project.
  - Number of pull requests
  - Number of commits
  - Contribution to code reviews
  - Number of comments all individuals have contributed
- Additional features:
  - Given a file name, the software will provide an easy-to-navigate view of the last individual that modified each line of the given file.
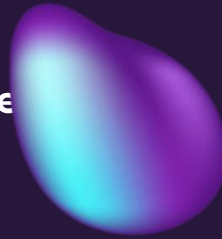
Principal Components of the Project

React

The React Javascript library allowed us to create a completely client side application with an intuitive interface

GraphQL

GraphQL api technology allows us to retrieve data from Github at a fraction of the requests as REST and with much more flexibility and control over what kind of information we want

Functional Requirements

- **Program provides several statistics and visualizations related to a user's contribution to a repository, given the owner's name of the repository, the name of the repository and the name of the contributor.**
- **Program provides change information of a repository file, such as the date/time and name of the individual who made the changes, for all lines of the file.**
- **The program will validate user's input, before retrieving the information from GitHub.**
- **The program will provide a alert to the user if inquiry is not found.**
- **The program will provide up to 5,000 points per hour of inquiries to the user.**

Non-Functional Requirements

- The program should retrieve a user's inquiry within 2 seconds or less.
- The program shall accept all text inputs from the user.
- The program should have access to GitHub API at any moment given it has Internet access.
- The program should be responsive in any browser.
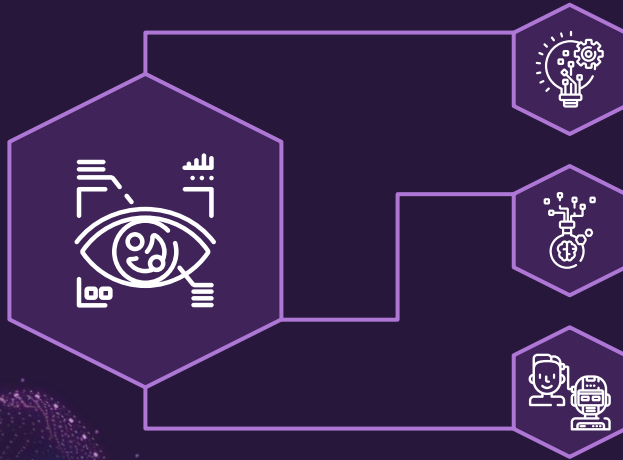- All program should represent all information in a pleasant visual way.

Use Case Diagrams
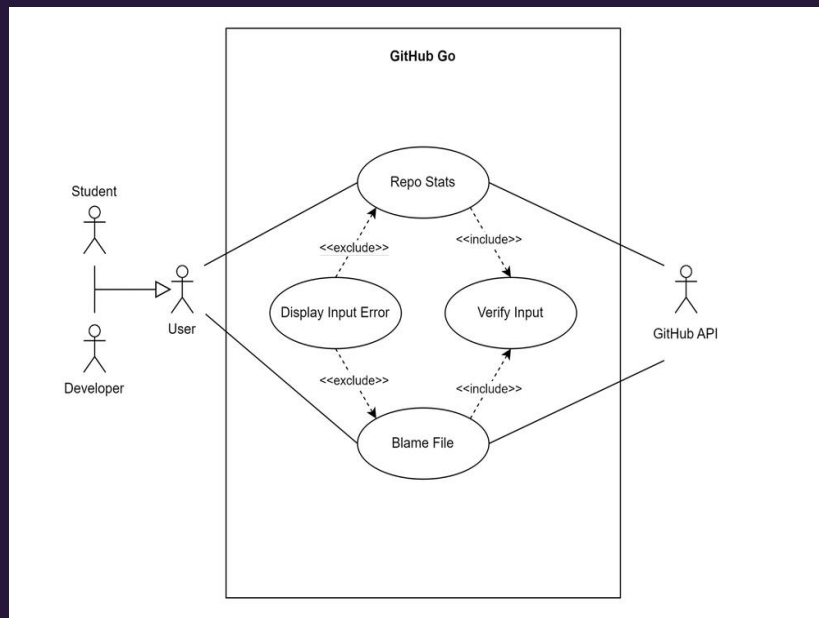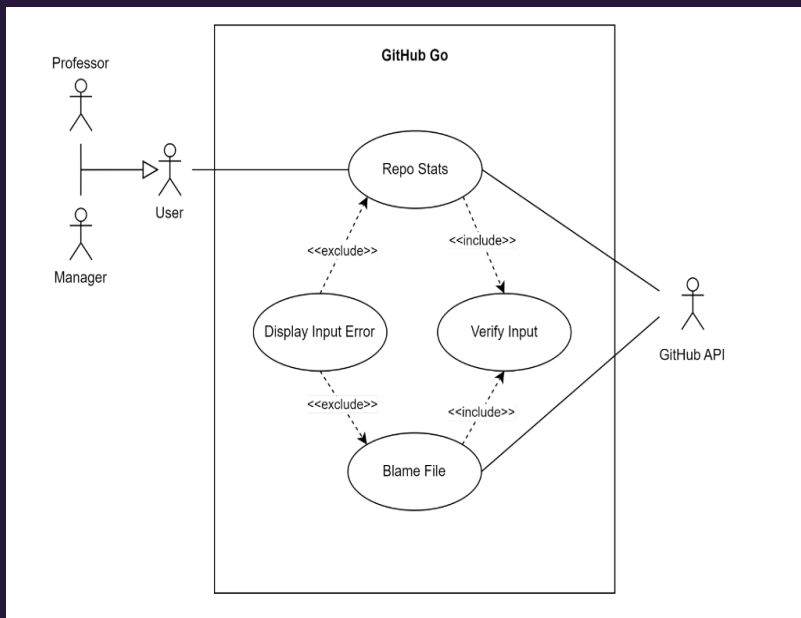
Demo

PROJECT GOALS

GOAL 1 — Understand how to work with API.

**GOAL 2** — Satisfy all the requirement of the project.

GOAL 3 — Improve teamwork skills

Looking Back and What's Next

Though GitHub Go is a great starting point as a repository inquiry platform, GitHub's GraphQL api provides a great amount of possibilities for retrieving repo and user data including:

- ◆ **Programming Language Information**
- ◆ **Pull Requests**
- ◆ **Milestone and Release data**

And more, we've barely touched the surface!
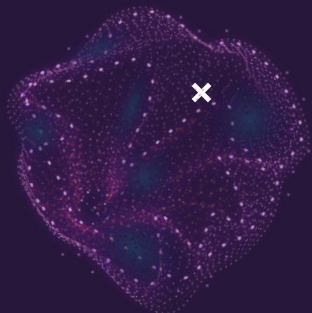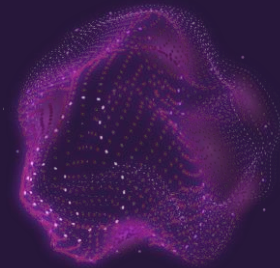
Team Experience

- **Learning about different API extraction libraries for the React/Javascript framework.**
- **Learning about GraphQL query techniques and models.**
- **Practicing various software engineering tasks such as modeling, designs and specifications.**
- **Learning about GitHub API architecture.**
- **Balancing school work and meeting deadlines.**
- **Team communication and collaboration.**

Thank You!