

GoalBruins Proposal

Team Members

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Overall Project Idea

Our team plans to implement an interactive goal planner for users to create, share, and track their personal goals. Our app allows social features such as following other users and commenting.

Features

Display Dynamic Data to the User

- We will let users create/delete/follow/unfollow goals.
- These goals will be displayed on the home page/personal page/search page/other pages, based on the respective rules.
- All these data will be saved into the server database, and content in the views mentioned above will be updated based on the server-side data.

Upload data from Client to Back-end

- We will let users create their personal goals.
- These goals and their status will be stored into the server's database.
- We will also store users' account information, such as username, password, and the goals that the user follows into the server's database.

Meaningfully search through server-side data

- There will be a search bar in the top navigation section.
- Users can search relevant goals with keywords and add them into their own plans.
- The search box is expected to have an autocomplete feature.
- Users can also filter the search results with tags. Users can sort search results by Likes, Date, Follows, Completion, etc..

Unique Feature #1

Push personalized goals to users based on user interests and goal popularity. These recommendations will be displayed on the user's "Discover" page.

Unique Feature #2

Users can create accounts to store their goal lists. Users can also follow goals created by other users. When other users complete their goals, the change would also be seen by other users on their "Discover" page.

Unique Feature #3

We will also allow comments and likes on others' personal goals, these comments and the number of likes will also be stored in the same data structure within our database.

Schedule/Milestones

Week 5 and 6 (by 05/07/21)

Everyone

- Setup Git repository and GitHub contribution workflow.

Frontend

- Frontend team starts to learn and practice HTML, CSS, JavaScript, and React.
- Frontend team implements a draft layout for the home page and goal page.
- Figure out how to fetch data from the backend.

Backend

- Select the framework for the database.
- Start to learn and practice JavaScript, Node.js, and database of choice.
- Implement a draft database and API.

Milestone

- Finish a simple version that displays dynamic data fetched from the backend.

Week 7 and 8 (by 05/21/21)

Everyone

- Continue to use Git and GitHub for version control
- Keep documentations

Frontend

- Create views for other pages such as user login, profile page, and settings.
- Polish pages created during weeks 5-6.
- Polish the design and layout.
- Continue to work on issues related to connecting to the backend.

Backend

- Improve and complete API from week 5-6.
- Complete database structure to enable CRUD(create/retrieve/update/delete) commands.
- Work on processing requests from the frontend.

Milestone

- Finish most of the features.

Week 9 and 10 (by 06/01/21)

Everyone

- Finalize documentations.
- Prepare for the presentation.
- Finish individual report and demo video.

Frontend

- Finish remaining features.
- Finalized connections to the backend.
- Finalize the design.
- Improve the performance if possible.
- Test everything.

Backend

- Finish remaining features of Database and API.
- Test all functionalities.
- Test backend stability, check for exceptions, etc.

Milestone

- Finish the product.
- Finish the documentations.
- Finish the presentation.
- Finalize everything.