

GoalBruins Proposal

Team Members

- Yu Zhou (GitHub: bryanzhou008) bryanzhou008@ucla.edu (Backend)
- Qi Xiao (GitHub: MattXiao00) mattxiao2000@gmail.com (Backend)
- Yupeng Chen (GitHub: YupengChen1137) yupeng1137@g.ucla.edu (Backend)
- Qiming Liu (GitHub: 670-qliu) jerry197352468@gmail.com (Frontend)
- Longyuan Gao (GitHub: longyuangao) longyuangao2000@gmail.com (Frontend)
- Zihan Xue (GitHub: MDZHX) zihanxue@ucla.edu (Frontend)

Overall Project Ideas

Our team implemented an interactive goal planner for users to create, follow, and archive their personal goals. Our application allows social features such as following other users' goals and liking other users' goals.

Features

Display Dynamic Data to the User

- We will let users create/follow/unfollow/archive goals.
- These goals will be displayed on the home page/personal page/search page/discover 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. Here, we are using MongoDB.

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 with their custom IDs in MongoDB.
- We will also store users' account information, such as UID, username, password, jwt token, the goals that user follows, the goals that user created, and goals that the user likes 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.
- Users can also filter the search results with tags. Users can sort search results by “first letter” and “newest date”.

Unique Feature #1

- Push personalized goals to users based on goal popularity. These recommendations will be displayed on the user’s “Discover” page.
- These goals are ranked with a given weight, with the number of followers weighting more than number of likes.
- More goals will be pushed after the user clicks the “load more” button.

Unique Feature #2

- Users can create accounts to store their goal lists.
- Users can login to have their unique goal lists.
- Users can also follow goals created by other users.

Unique Feature #3

- We will also allow likes on others’ personal goals, and the number of likes will also be stored in the same data structure within our database.
- The number of counts is displayed dynamically.
- A user may only like a goal once, after liking a goal, the user can only choose to un-like that goal.

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.