CMPS 356 – Fall 2022
Web Applications Design and Development

Assignment 04
Endpoints and Mutations

Instructions

1. The deadline for completing your work is Saturday, January 10, 2022 at 11:59:59pm
2. Push your code to your private repository under `assignments/assignment04`
3. Commit often and use meaningful message summaries and descriptions
4. Complete your work before the deadline; a late push will be ignored
5. Deploy your site using Vercel (https://vercel.com) and include a link in `link.txt`
6. Any form of plagiarism will be treated seriously and reported

1. Mutant Idea Synchronization

1. Create a Next 13 application with the experimental app directory under `assignment04`.
2. Create an endpoint, `/api/identifier`, that returns a random unique identifier. Use the `uuid` package to generate these identifiers.
    2.1. Save this identifier locally and use it to identify the current user when they first visit the application.
    2.2. Append every identifier generated through the endpoint to `/tmp/users.json`.
3. Create an endpoint, `/api/[user]/ideas`, to manage the ideas for a given user.
    3.1. The ideas are stored in `/tmp/ideas.json`.
    3.2. The user should be able to retrieve their ideas, create a new idea, and delete an existing idea.
    3.3. The user identifier should be validated against the identifiers generated by the `/api/identifier` endpoint previously.
4. Create a page that allows the user to manage their ideas and use React Query mutations to create and delete ideas. <u>Do not manually store the ideas locally</u>.
5. Test the application with multiple users. You can use a private/incognito tab for each user.