Design Documentation

High level

This project follows the standard structure of most NextJS projects. There are essentially two different node projects that exist independant of eachother which represent the seperation of the front end and the backend.

All user interation is handled by the ui portion of the project. Throught the ui the user is able to make calls which reflect changes in the api portion of the project.

For example the user is able to create an account for the site by interacting with the createAccount page which makes the required calls to the api portion of the project. The api portion of the project will handle whatever is required to create the user account.

The ui directory represents the front end. The api directory represents the backend.

UI

The UI consists of pages which represent a web page that the user is able to interact with and the components which represent reusable parts that can be used within any of the pages.

All of the ui pages serve strictly as an interface to handle user interaction. There isn't anything that a user can do to modify items in the account store or api folder that would circumvent the api project.

API

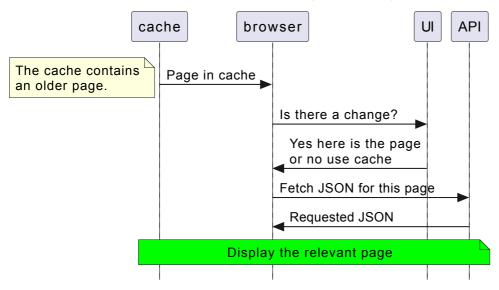
The api project serves strictly as a worker for managing things such as user login state, links that the user wants to share, or the user bio. The api project can best be seen as a warehouse worker who will fetch or store the requests that are made by the ui project.

The api project is strictly restricted to actions that interact with the data that we store for user information. api will never be used for actually displaying the information or handling it in any way that would modify it. Only for serving and storing.

Examples

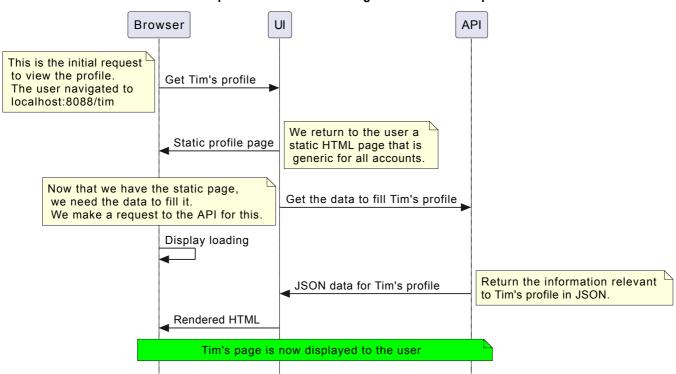
Page Caching

Flow of operations for page caching



Loading a profile

Flow of operations for fetching the user Tim's profile



Directory Structure

I ani
— api
<pre> — index.js # The point in which we initialize the server with any required settings and define the api routes.</pre>
— routes
accounts.js # Contains required logic for users to create and
account and login.
profile.js # Contains logic for loading a user profile.
Slightly unique because it cannot require a login.
as users navigate between pages that we keep them logged in between all of
them
upload.js # Provides the api for uploading an image from the
front end. This will in turn save the uploaded image on the UI side of the
project.
— store
└── accounts.js # Serves as the database for user account
information.
└─ util
rand.js # Simple helper class for creating a random string
└─ ui
— components # The components directory contains a reusable
components that are intended to be used by files in the pages directory
UserBackground.tsx # A component that overrides the default
background for use profile pages.
│ ├── footer.js # The footer used by all pages other than user
profiles
— layout.js # The standard layout of all pages. It wraps a pages
body content with the header and footer components.
linkEditor.js # Component used by the manage profile window
which provides users an interactive way of editing their links L navbar.js # The navbar or header used by all pages except
profile
⊢ css
styles.css # Style sheet that applied to all pages
— hooks
session.js # UI end of managing a users login session
— pages
[profile].js # This page displays a user's profile. No session
is required.
<pre>app.js # global page the defines how the others will look</pre>
— account
— background.js # Allows the user to modify their background
image used on their profile.
createAccount.js # Allows a user to create a new account.
│ │ ├── links.js # Allows a user to edit the links on their
profile.
l login.js # Allows a user to login to their account
to trigger a logout request.

