Group 01 Phase 1 Technical Report

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Overview

Our website is hosted at brighterbeginnings.me using AWS Amplify.

Currently, it is configured to build automatically from our GitLab repo.

Dependencies:
- React
- Node.js
- npm
- Bootstrap

Frontend

The front end is a React app, which is what is running on AWS.

You can build and run the app like this:

```
(in cs373-group-01/front-end)
    npm install
    npm run start
```

If running locally, it will be at `localhost:3000` by default.

Site Architecture

The structure of the website currently is as follows:
- A home page
  - Relevant files:
    - src/pages/Home.jsx
- An about page (/about)
  - Pages for each developer on click

- ○ Relevant files:
  - ■ src/pages/About.jsx
  - ■ src/pages/AboutSubPage.jsx
  - ■ src/data/about.js
  - ■ src/components/cards/StatsCard.jsx
  - ■ src/components/cards/ToolsCard.jsx
- ● Cities page (/cities)
  - ○ Pages for each city on click
    - ■ Contains images and info about each city
    - ■ Links to organizations with help resources in those cities
  - ○ Relevant files:
    - ■ src/pages/Cities.jsx
    - ■ src/pages/CitySubPage.jsx
    - ■ src/data/cities.js
    - ■ src/components/cards/CitiesCard.jsx
- ● Organizations page (/organizations)
  - ○ Pages for each organization on click
    - ■ Contains images and info for each organization
    - ■ Links to scholarships and cities that these organizations are based in
  - ○ Relevant files:
    - ■ src/pages/Organizations.jsx
    - ■ src/pages/OrganizationSubPage.jsx
    - ■ src/data/organizations.js
    - ■ src/components/cards/OrganizationsCard.jsx
- ● Scholarships page (/scholarships)
  - ○ Pages for each scholarship on click
    - ■ Contains images and info for each scholarship
    - ■ Links to organizations that provide those scholarships if applicable
  - ○ Relevant files:
    - ■ src/pages/Scholarships.jsx
    - ■ src/pages/ScholarshipSubPage.jsx
    - ■ src/data/scholarships.js
    - ■ src/components/cards/ScholarshipsCard.jsx
- ● Routing is done in src/App.js

- Our API to grab data from our website is documented here;

  https://documenter.getpostman.com/view/32954458/2sA2r6WPJG
    - Our API can grab any single or all data instance/s from all of our models including all fields displayed on the website
    - Applies to scholarships, organizations, and cities data

User Stories

From our collection of user stories, we have listened to feedback to implement a cleaner website design (decluttered unnecessary or repeated data fields), included mapped images to make locations clearer, and included links and pictures to supplement scholarship information.

Purpose/Motivation

We deem this website necessary as we believe that financial constraints should never hinder the pursuit of knowledge. BrighterBeginnings aims to empower low-income K-12 students to reach for the stars by connecting them with knowledge about scholarship opportunities and organizations providing aid, whether financial or otherwise.

Challenges Faced

We ran into quite a few challenges in the planning phase because we had to ensure that everything was possible to be implemented by the deadline and that the data was findable. For the actual project, many challenges faced were React-specific and were resolved with the help of online forums where others faced similar challenges. We also ran into an issue with the CI/CD pipeline because we were not resolving warnings as he went, but we are now doing so.