**Community Event Website**

Members: Darryl Karney, Adiba Mohammed

**Project Proposal/Description**

Our template for a community event website can be used by any community to organize events. Organizations can create events, request specific skills, and be knowledgeable of how many volunteers will be helping. Volunteers can view open community events and sign up for positions.

**Features**

* Organizations and volunteers can create accounts
* Organizations can create events and modify existing events
* Organizations can request specific skills for positions on an event
* Volunteers can view open events and events they have signed up for
* Volunteers can list their skills on their profile which organizations can view

**Software Environment**

Software tools used for development:

* Microsoft Visual Studio Code: Integrated development environment
* MongoDB Atlas: Cloud database
* Github: Source code management
* Heroku: Website hosting

**Framework Specification**

* JavaScript
* NodeJS: back end
* React: front end
* HTML/CSS

**Team Responsibility**

* Darryl Karney
* Adiba Mohammed

**Test Plan**

|  |  |
| --- | --- |
| Feature | Input Tested |

**Potential List of Features to Consider:**

* Calendar reminders: The ability to have a user add an event to their personal calendar via an ics file or another format.
* Email notifications: The ability for organizations to email volunteers or get email reminders about events signed up for.
* Multi-day events: Currently, events can only be schedule for a specific date and time requiring multi-day events to need to be created as multiple events. Multi-day event scheduling would help alleviate this.
* Filtering events: A large community may have dozens of events planned. This would make it more difficult for users to look through the list of all events.

**Requirements: Software Installation**

* Microsoft Visual Studio Code - <https://code.visualstudio.com/download>
  + Recommended extensions: Auto Rename Tag, Bracket Pair Colorizer, ES7+ React/Redux/React-native snippets, Prettier – Code formatter

Microsoft Visual Studio Code is free software offered by Microsoft which allows the user to have a simple development environment that supports many features such as project file viewing/traversal, project keyword search, source control management, debugger, extensions, testing, and an in-window terminal. It can be downloaded from the link above.

The recommended extensions help in the following ways. Auto Rename Tag makes it easier to rename both opening and closing tags of an HTML element at the same time. Bracket Pair Colorizer colors each start and end brackets that match to be the same color. This makes it easier to find issues with missing or excess brackets. ES7+ React/Redux/React-native snippets gives Visual Studio Code support for React/Redux and React-Native syntax. Prettier – Code formatter improves readability of code by coloring different components different colors.

* MongoDB Atlas - <https://www.mongodb.com/atlas/database>
  + TODO: Add instructions on how to set up cloud database

MongoDB Atlas allows you to create a cloud-based MongoDB database which your website can access for data storage. Using the instructions listed, a free database can be set up. Please not that if your database size becomes too large, you will need to start paying a small fee to continue the hosting of the database. MongoDB is a NO SQL database that makes it easy to add new fields or even have records with a differing number of fields. This is different from typical relational databases such as MS SQL Server in which each record must have the same columns, even if some records have the data in the column set to NULL.

* Github - <https://github.com/>
  + Create an account
  + Clone existing repository into a new one on your account
  + Make changes necessary for your community

Github is a useful site for code collaboration and project file hosting. The general-purpose version of the site can be found at <https://github.com/DarrylK92/MERN-CommunitySite>. Clone the repository from that link into a repository on your own account. From there, clone your repository locally to begin making your changes.

* Heroku - <https://www.heroku.com/>
  + TODO: Add instructions for setting up Heroku hosting

Heroku is a site you can use to host your website for free as long as you are okay with having “.herokuapp.com” in your URL. If not, you can use one of their paid plans to host the site.