**Frontend/Timezone Converter setup instructions**

**Overview**

This project is a Timezone Converter application built using modern web technologies to provide a fast and interactive user experience. The main functionalities of this application include converting the time from one timezone to another and selecting timezones via a search bar and slider present in every timezon component. The project uses the following technologies:

* Vite: A fast build tool and development server.
* React: A JavaScript library for building user interfaces.
* Moment-Timezone: A library for parsing, validating, manipulating, and formatting dates and times in different timezones.
* React-Icons: A collection of popular icons as React components.
* React-Beautiful-Dnd: A library for beautiful and accessible drag-and-drop interactions.
* Project Structure

**Setup Instructions**

**Prerequisites**

Ensure you have the following software installed:

• Node.js (v18.x or later)

• npm (v6.x or later)

**Step 1: Open the project**

Opent the project in **playpower-assignment/frontend-timezone-convertor**

**Step 2: Install Dependencies**

Install the required Node.js dependencies by running:

npm install

**Step 3: Start the Development Server**

Start the Vite development server by running:

npm run dev

The server will start and the application will be available at http://localhost:5173.

**Step 4: Build for Production**

To build the project for production, run:

npm run build

The build outputs will be placed in the dist directory.

**Step 5: Preview the Production Build**

To preview the production build, you can use the Vite preview command:

npm run preview

This will start a local server to preview the production build.

**Application Features**

* **Timezone Selector**: Use the search bar to select the source and target timezones.
* **Time Conversion:** slide the time from the slider of a timezone component to see the converted time in the time input bar
* **Drag and Drop:** Use react-beautiful-dnd for intuitive drag-and-drop interactions in order to change the order of selected timezons
* **Change the date from inputbar date:** use can change to date of timezone components
* **Reverse the order of selected timezon:** we can reverse the order of timezon by clicking the icon left of link icon at top right.
* **Copy the link**: we can copy the link of website by clicking on link icon at top right.

**Additional Scripts**

In the project directory, you can run:

• npm run dev: Starts the Vite development server.

• npm run build: Builds the app for production.

• npm run preview: Previews the production build locally.

• npm run lint: Runs the linter to check for code quality issues.

**Contact**

For any questions or issues regarding the setup or usage of the project, please contact the project developer at [ataul.computer786@gmail.com](mailto:ataul.computer786@gmail.com) or phone: 7983732026