Cloud Task Tracker - Documentation

Overview:

The **Cloud Task Tracker** is a simple web application that allows users to manage their tasks and view motivational quotes. It stores the tasks in the browser's local storage and updates dynamically. The application is built with **HTML**, **CSS**, and **JavaScript**. It is hosted using **GitHub Pages**, making it cloud-agnostic and publicly accessible.

1. GitHub Repository:

- **GitHub Repository URL:** Cloud Task Tracker

The repository contains the full source code for the web application. You can clone the repository and run it locally, or simply access the live version hosted on GitHub Pages.

2. Deployment Instructions:

Below are the steps I followed to deploy the Cloud Task Tracker app using **GitHub Pages**:

Step 1: Push the Code to GitHub

1. **Create a GitHub repository**:
    - If you haven't already, create a new repository on GitHub. For example, name it cloud-task-tracker.
    - Make sure the repository is **public**.
2. **Push the code**:
    - Open Git Bash or your terminal, and navigate to your project directory.
    - Initialize Git if you haven't already:

    git init

    - Add all files to Git:

    git add .

    - Commit the changes:

    git commit -m "Initial commit"

- Link your local project to your GitHub repository:

  git remote add origin https://github.com/Aarthi-Ravichandran/Take-Home-Test1.git

- Push the code to GitHub:

  git push -u origin main

3. After pushing the code, visit your GitHub repository page and verify that all your files are uploaded.

Step 2: Set Up GitHub Pages for Deployment

1. **Go to the repository's Settings**:

   - Open your repository on GitHub.
   - Navigate to the **Settings** tab.

2. **Enable GitHub Pages**:

   - Scroll down to the **GitHub Pages** section.
   - In the **Source** dropdown menu, select the main branch (or the branch that contains your project files).
   - Click **Save**.

3. **Access the Deployed App**:

   - After a few moments, the application will be live. You can view it at the following URL:

     https://aarthi-ravichandran.github.io/Take-Home-Test1/

   - The app is now accessible to anyone with the link.

3. How to Run the Application Locally:

If you'd like to run the application on your local machine, follow these steps:

Step 1: Clone the Repository Locally

- Open your terminal or Git Bash.
- Clone the repository:

  git clone https://github.com/Aarthi-Ravichandran/Take-Home-Test1.git

- Navigate to the project directory:

  cd Take-Home-Test1

Step 2: Open the Application

Since the app is static, you don't need a server. You can simply open the index.html file directly in your browser.

- Open the index.html file in your browser, or run the following command based on your OS:
  - **For macOS**:

    open index.html
  - **For Windows**:

    start index.html
  - **For Linux**:

    xdg-open index.html

The application will load in your browser, and you can interact with it just like the live version.

4. Technologies Used:

- **HTML**: The structure and layout of the web page.
- **CSS**: Used for styling and layout of the application.
- **JavaScript**: Handles the task management logic, quote generation, and interaction with local storage.
- **GitHub Pages**: Hosting platform for serving the static web application.

5. Features:

- **Task Management**: Users can add, view, and remove tasks.
- **Motivational Quotes**: Displays a random quote each time the page loads.
- **Local Storage**: Tasks are stored in the browser's local storage, making them persistent even after page refreshes.

6. Conclusion:

This **Cloud Task Tracker** app demonstrates a simple, cloud-agnostic design that can be easily deployed using **GitHub Pages**. The application is fully front-end based, allowing for easy setup and scaling without needing a server or complex infrastructure. By using open-source technologies like **HTML**, **CSS**, and **JavaScript**, I have built a lightweight solution for task management that leverages local storage for persistence.
