# Job Search and Aggregator Project

## Overview

This project is a simple web application that allows users to search for job listings using the Adzuna API. The application takes a job title or keywords as input and displays the relevant job listings.

## Technologies Used

HTML: Structure of the web pages  
CSS: Styling of the web pages  
JavaScript: Logic for fetching data from the Adzuna API and displaying job listings  
Adzuna API: Source of job listings  
GitHub Pages: Hosting the static website

## Steps to Create the Project

### 1. Creating Adzuna Account and Obtaining API Credentials

1. Sign Up: Go to the Adzuna Developer Signup page and create an account.

2. Application Creation: After signing up, an application is created for you by default. You can find it in your dashboard.

3. API Credentials: Note down your Application ID and Application Key from your dashboard. These credentials are used to authenticate API requests.

### 2. Setting Up the Project

#### HTML (index.html)

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>Job Search App</title>  
 <link rel="stylesheet" href="style.css">  
</head>  
<body>  
 <header>  
 <h1>Job Search App</h1>  
 <form id="searchForm">  
 <input type="text" id="searchInput" placeholder="Enter job title, keywords...">  
 <button type="submit">Search</button>  
 </form>  
 </header>  
  
 <main id="jobListings">  
 <!-- Job listings will be displayed here -->  
 </main>  
  
 <script src="script.js"></script>  
</body>  
</html>

#### CSS (style.css)

/\* Basic styling for job search app \*/  
  
body {  
 font-family: Arial, sans-serif;  
 background-color: #f2f2f2;  
 margin: 0;  
 padding: 0;  
}  
  
header {  
 background-color: #007bff;  
 color: #fff;  
 padding: 10px;  
 text-align: center;  
}  
  
form {  
 margin: 10px auto;  
 max-width: 600px;  
 display: flex;  
 justify-content: center;  
 align-items: center;  
}  
  
input[type="text"] {  
 padding: 8px;  
 width: 70%;  
 border: 1px solid #ccc;  
}  
  
button {  
 padding: 8px 16px;  
 background-color: #4CAF50;  
 color: white;  
 border: none;  
 cursor: pointer;  
}  
  
button:hover {  
 background-color: #45a049;  
}  
  
main {  
 margin: 20px auto;  
 max-width: 800px;  
}  
  
.job-listing {  
 background-color: #fff;  
 border: 1px solid #ccc;  
 padding: 10px;  
 margin-bottom: 10px;  
}

#### JavaScript (script.js)

document.getElementById('searchForm').addEventListener('submit', function(event) {  
 event.preventDefault();  
 const searchInput = document.getElementById('searchInput').value.trim();  
 if (searchInput === '') return;  
  
 const appId = '8b08337d'; // Your Adzuna application ID  
 const appKey = '732adbab8c05ccb0425581241a832428'; // Your Adzuna application key  
 const apiUrl = `https://api.adzuna.com/v1/api/jobs/us/search/1?app\_id=${appId}&app\_key=${appKey}&results\_per\_page=10&what=${searchInput}`;  
  
 fetch(apiUrl)  
 .then(response => response.json())  
 .then(data => displayJobListings(data.results))  
 .catch(error => console.error('Error fetching job listings:', error));  
});  
  
function displayJobListings(jobs) {  
 const jobListings = document.getElementById('jobListings');  
 jobListings.innerHTML = ''; // Clear previous listings  
  
 jobs.forEach(job => {  
 const jobHTML = `  
 <div class="job-listing">  
 <h2>${job.title}</h2>  
 <p>${job.company.display\_name}</p>  
 <p>${job.location.display\_name}</p>  
 <p>${job.contract\_time}</p>  
 <a href="${job.redirect\_url}" target="\_blank">Apply</a>  
 </div>  
 `;  
 jobListings.innerHTML += jobHTML;  
 });  
}

### 3. Deploying the Project on GitHub Pages

1. Create GitHub Repository: If you haven't already, create a new repository on GitHub.

2. Push Your Code: Push your `index.html`, `style.css`, and `script.js` files to your GitHub repository.

3. Enable GitHub Pages:

- Go to your repository on GitHub.

- Navigate to 'Settings' and scroll down to the 'GitHub Pages' section.

- Choose the branch you want to deploy (e.g., `main` or `master`) and save.

4. Access Your Deployed App: GitHub will provide you with a URL (e.g., `https://username.github.io/repository`) where your job search app will be accessible.

## Notes

- Replace API Credentials: Ensure your Adzuna Application ID and Key are correctly placed in the JavaScript code.

- Error Handling: Handle errors gracefully in your JavaScript code to manage cases where API requests fail or return empty data.

## Conclusion

This documentation outlines the steps to create a job search and aggregator web application using HTML, CSS, JavaScript, and the Adzuna API. By following these steps, you can build, deploy, and host a fully functional job search app on GitHub Pages. If you have any questions or need further assistance, feel free to ask!