4th Assignment
WRC078BEI047

Report: Running an Assignment Viewer Website Using GitHub Pages

Introduction

Hosting an Assignment viewer website the usage of GitHub Pages is a trustworthy and efficient manner to proportion documents with a extensive audience. GitHub Pages gives a free and reliable web hosting service for static web sites without delay from a GitHub repository. This record outlines the stairs to installation, set up, and manage a Assignment viewer website using GitHub Pages.

Project Initialization

1. Creating a GitHub Repository

To begin, a new repository is created on GitHub. This repository serves as the central location for all project files. The following steps are taken:

1. Navigate to GitHub and log in to the user account.
2. Click the "New" button to create a new repository.
3. Enter a repository name and an optional description.
4. Choose the repository visibility (public or private).
5. Click "Create repository" to finalize the setup.

2. Cloning the Repository

After the repository is created, it is cloned to the local machine to facilitate development. The following Git commands are used:

```
git clone https://github.com/username/repository-name.git
cd Assignment-viewer
```

Developing Assignment viewer using HTML and CSS

1. **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>PDF Viewer</title>
   ```

```
    <link rel="stylesheet" href="styles.css">
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&disp
lay=swap" rel="stylesheet">
</head>
<body>
    <header>
        <div class="container">
            <h1>Assignment Viewer</h1>
            <nav>
                <ul>
                    <li><a href="#home">Home</a></li>
                    <li><a href="#document">Document</a></li>
                    <li><a href="#contact">Contact</a></li>
                </ul>
            </nav>
        </div>
    </header>

    <main id="home">
        <div class="container">
            <section id="document">
                <h2>Document</h2>
                <div class="pdf-container">
                    <embed src="document.pdf" type="application/pdf"
width="100%" height="600px" />
                </div>
            </section>
        </div>
    </main>

    <footer id="contact">
        <div class="container">
            <p>&copy; 2024 Assignment Viewer. All rights reserved.</p>
        </div>
    </footer>
</body>
</html>
```

2. **CSS (styles.css)**:

```
body, h1, h2, p, ul, li, a {
    margin: 0;
    padding: 0;
    list-style: none;
    text-decoration: none;
}

/* Body and Container */
body {
    font-family: 'Roboto', sans-serif;
    line-height: 1.6;
    background: #f4f4f4;
    color: #333;
}
```

```
.container {
    width: 80%;
    margin: 0 auto;
    overflow: hidden;
    padding: 20px;
}

/* Header */
header {
    background: #333;
    color: #fff;
    padding: 1rem 0;
    text-align: center;
}

header h1 {
    margin: 0;
    font-size: 2rem;
}

header nav {
    margin-top: 10px;
}

header ul {
    list-style: none;
    padding: 0;
}

header li {
    display: inline;
    margin-left: 15px;
}

header a {
    color: #fff;
    text-decoration: none;
    font-weight: bold;
}

header a:hover {
    color: #ffcc00;
}

/* Main Section */
main {
    padding: 2rem 0;
    background: #eaeaea;
    border-radius: 8px;
    margin-top: 1rem;
}

h2 {
    margin-top: 2rem;
    margin-bottom: 1rem;
    font-size: 1.8rem;
    color: #444;
```

```
          text-align: center;
      }

      .pdf-container {
          margin-bottom: 2rem;
          background: #fff;
          border: 1px solid #ccc;
          border-radius: 8px;
          overflow: hidden;
          box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
      }

      /* Footer */
      footer {
          background: #333;
          color: #fff;
          text-align: center;
          padding: 1rem 0;
          margin-top: 2rem;
          border-radius: 8px;
      }

      footer p {
          margin: 0;
          font-size: 1rem;

}
```

2. Adding the PDF File

The PDF file intended for viewing is added to the project directory. It is essential to ensure that the file path specified in the HTML code matches the actual location of the PDF file.

3. Committing and Pushing Changes

After developing the basic structure of the PDF viewer, changes are committed and pushed to the GitHub repository:

```
git add .
git commit -m "Initial commit with PDF viewer"
git push origin main
```

Deploying the Website

1. Using GitHub Pages

GitHub Pages is a free service that allows users to host web pages directly from a GitHub repository. The following steps outline the deployment process:

1. Navigate to the repository on GitHub.
2. Click on "Settings."

3. Scroll down to the "GitHub Pages" section.
4. Under "Source," select the branch (e.g., `main`) and the folder (e.g., `/root`) to deploy.
5. Click "Save."

2. Accessing the Deployed Site

Once the deployment is complete, GitHub provides a URL where the website is accessible. This URL follows the pattern `https://username.github.io/Assignment-viewer/`. Visiting this URL in a web browser will display the PDF viewer as developed.

Conclusion

Setting up a PDF viewer on a website using GitHub is a straightforward process that involves creating a repository, developing the HTML structure, and deploying the site using GitHub Pages. This method leverages GitHub's robust version control and hosting capabilities, making it an efficient solution for web developers. The described steps ensure that the PDF viewer is successfully deployed and accessible online.