

BEGINNER PROJECT 2:

To-Do List App (Frontend)

OBJECTIVE: Build a basic To-Do list web application using HTML, CSS, and JavaScript

SKILLS: Learn how to organize your code into commits, and set up a GitHub repository.

GitHub Concepts: Regularly commit your progress, create branches for features, and make pull requests.

Step 1:

1. Create new folder
2. Open folder in VS Code
3. Inside folder create file
 - a. index.html
 - b. style.css
 - c. script.js

Step 2:

1. open git bash
2. Initialize a repository
git init
3. Create new repository in GitHub
4. Link your local repository to GitHub
git remote add origin

Step 3:

1. Open index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>To-Do List</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <h1>To-Do List</h1>
    <form id="todo-form">
      <input type="text" id="todo-input" placeholder="Add a new task" required>
      <button type="submit">Add</button>
    </form>
    <ul id="todo-list"></ul>
  </div>
  <link rel="stylesheet" href="style.css">
```

```
<script src="script.js"></script>
</body>
</html>
```

2. Commit your changes

git add .

git commit -m "save all changes"

Step 4:

1. Open style.css

```
body {
  font-family: Arial, sans-serif;
  background-color: #f3f3f3;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}

.container {
  background: #ffffff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 400px;
}

h1 {
  text-align: center;
  color: #333;
}

#todo-form {
  display: flex;
  margin-bottom: 20px;
}

#todo-input {
  flex: 1;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button {
  background-color: #007bff;
  color: white;
```

```

border: none;
padding: 10px;
border-radius: 4px;
cursor: pointer;
}

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

li {
  background: #f9f9f9;
  margin-bottom: 10px;
  padding: 10px;
  border: 1px solid #ddd;
  border-radius: 4px;
  display: flex;
  justify-content: space-between;
}

```

2. Commit your changes

git add .

git commit -m "save all changes"

Step 5:

1. Open script.js

/ Select elements

```

const todoForm = document.getElementById('todo-form');
const todoInput = document.getElementById('todo-input');
const todoList = document.getElementById('todo-list');

```

// Add task event

```

todoForm.addEventListener('submit', function(event) {
  event.preventDefault();

```

// Get the input value

```

const task = todoInput.value;

```

// Create a new list item

```

const listItem = document.createElement('li');
listItem.innerHTML = `
  <input type="checkbox" class="task-checkbox">
  <span class="task-text">${task}</span>
  <button class="delete-btn">Delete</button>
`;

```

// Append to the list

```

todoList.appendChild(listItem);

```

```

// Clear the input
todoInput.value = "";

// Add delete functionality
const deleteButton = listItem.querySelector('.delete-btn');
deleteButton.addEventListener('click', function() {
    listItem.remove();
});

// Add functionality to mark as completed
const checkbox = listItem.querySelector('.task-checkbox');
checkbox.addEventListener('change', function() {
    const taskText = listItem.querySelector('.task-text');
    if (checkbox.checked) {
        taskText.style.textDecoration = 'line-through'; // Mark as completed
        taskText.style.color = '#888'; // Change text color
    } else {
        taskText.style.textDecoration = 'none'; // Unmark as completed
        taskText.style.color = '#000'; // Reset text color
    }
});
});

```

2. Commit your changes

Git add .

Git commit -m "save all changes"

Step 6:

1. Create a new branch for additional features
git branch feature/add-task-filter
git checkout feature/add-task-filter
2. Push branch to GitHub
git push origin feature/add-task-filter
3. Open a pull request on GitHub to merge the branch into main branch

```
MINGW64/c/Users/Administrator/Desktop/ToDo-App
Administrator@3148c6658f7456b MINGW64 ~ (main)
$ cd Desktop

Administrator@3148c6658f7456b MINGW64 ~/Desktop (main)
$ ls
'Cisco Packet Tracer.Ink'*      Postman.Ink*
'Docker Desktop.Ink'*          ReadME.txt
'Eclipse IDE for Java Developers - 2024-03.Ink'*  ToDo-App/
'Microsoft Edge.Ink'*          'Visual Studio Code.Ink'*
'None100compass.Ink'*         bpl/
'OpenOffice 4.1.15 (en-GB) Installation Files/'  desktop.ini

Administrator@3148c6658f7456b MINGW64 ~/Desktop (main)
$ cd ToDo-App/

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (main)
$ git init
Initialized empty Git repository in C:/Users/Administrator/Desktop/ToDo-App/.git/

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (master)
$ git remote add origin https://github.com/meghanavalluri02/ToDo-App.git

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (master)
$ git add .

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (master)
$ git commit -m "save all changes"
[master (root-commit) 1b4e2dd] save all changes
3 files changed, 124 insertions(+)
create mode 100644 index.html
create mode 100644 script.js
create mode 100644 style.css

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (master)
$ git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/meghanavalluri02/ToDo-App.git'

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (master)
$ git branch feature/add-task-filter
git checkout feature/add-task-filter
Switched to branch 'feature/add-task-filter'

Activate Windows
Go to Settings to activate Windows.
```

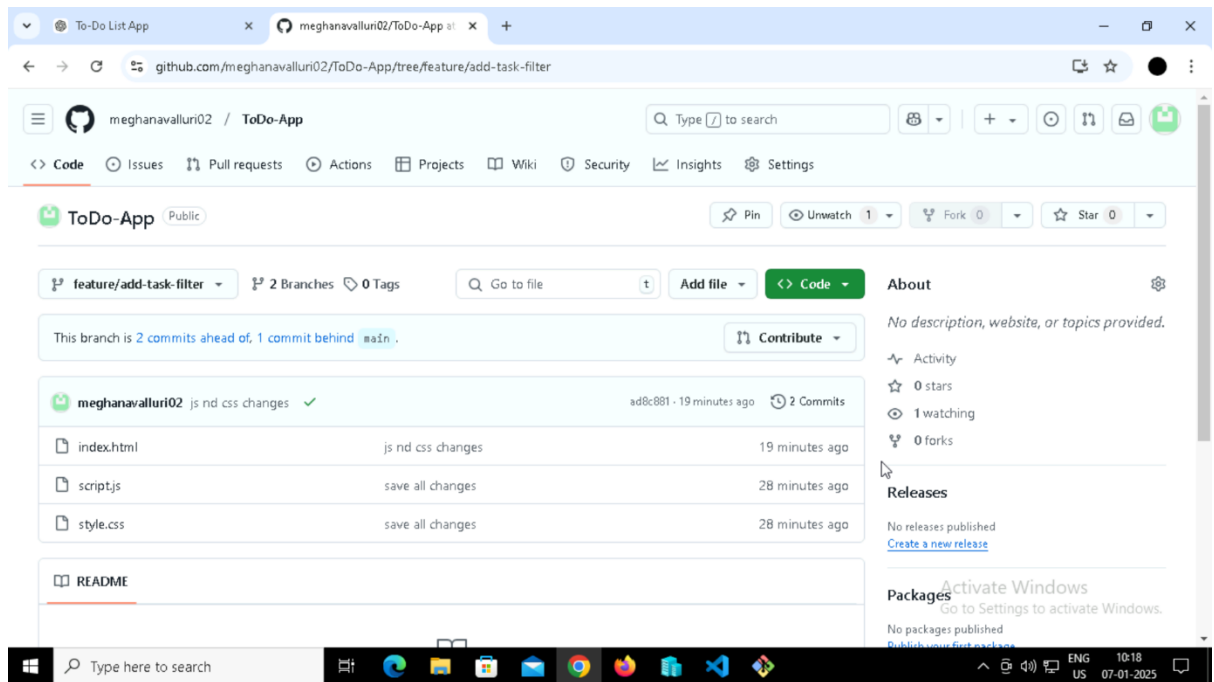
```
MINGW64/c/Users/Administrator/Desktop/ToDo-App
Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (feature/add-task-filter)
$ git add .
git commit -m "Add task filter feature"
On branch feature/add-task-filter
nothing to commit, working tree clean

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (feature/add-task-filter)
$ git push origin feature/add-task-filter
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.51 KiB | 1.51 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Create a pull request for 'feature/add-task-filter' on GitHub by visitin
g:
remote:   https://github.com/meghanavalluri02/ToDo-App/pull/new/feature/add-t
ask-filter
remote:
To https://github.com/meghanavalluri02/ToDo-App.git
 * [new branch]      feature/add-task-filter -> feature/add-task-filter

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (feature/add-task-filter)
$ git add .

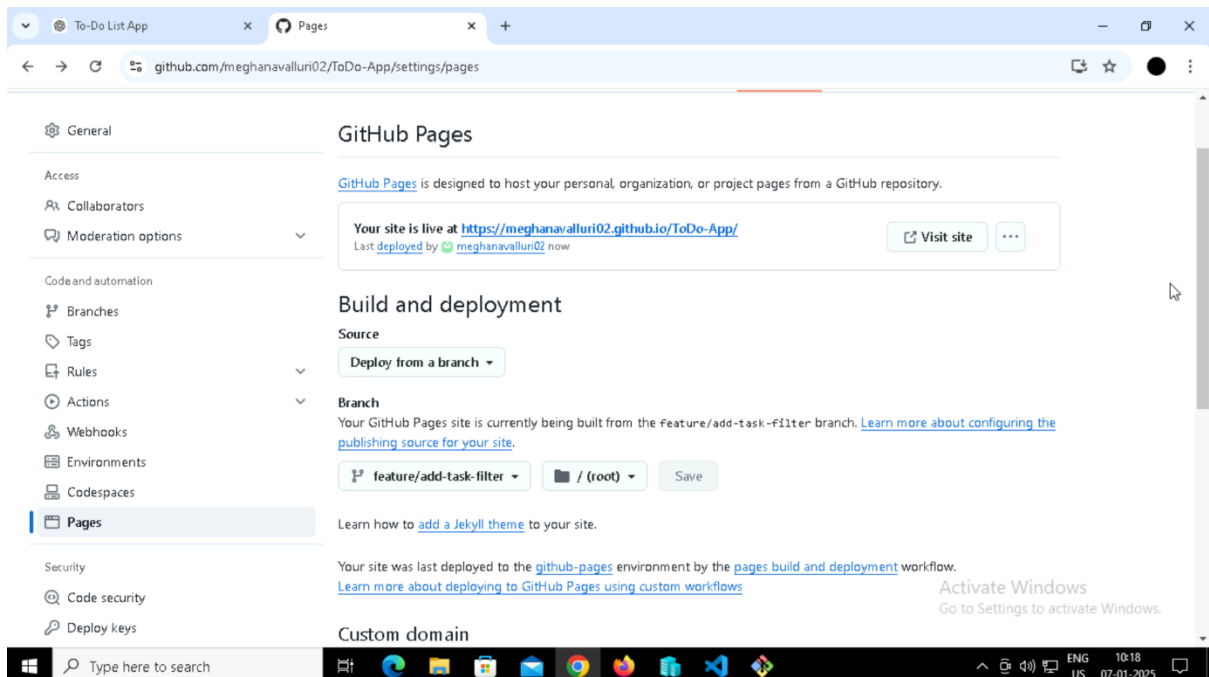
Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (feature/add-task-filter)
$ git commit -m "js nd css changes"
[feature/add-task-filter ad8c881] js nd css changes
1 file changed, 1 insertion(+)

Administrator@3148c6658f7456b MINGW64 ~/Desktop/ToDo-App (feature/add-task-filter)
$ git push origin feature/add-task-filter
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 346 bytes | 346.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
```



Step 7:

1. Go to your GitHub repository
2. Click settings > Pages
3. Set the source to main branch and save.
4. Open the provided link in your browser
<https://meghanavalluri02.github.io/ToDo-App/>



This is how the page looks:

