**Step 1: Set Up the Environment**

1. **Install Visual Studio Code (VS Code):**
   * Go to [VS Code Official Website](https://code.visualstudio.com/).
   * Download and install the appropriate version for your operating system.
   * Launch VS Code once installation is complete.
2. **Install Git:**
   * Go to [Git Official Website](https://git-scm.com/).
   * Download and install Git.
   * Configure Git by running the following commands in your terminal:

bash

git config --global user.name "Your Name"

git config --global user.email "your.email@example.com"

* + This configuration ensures that commits are tied to your identity.

1. **Install GitHub Extension for VS Code:**
   * Open VS Code.
   * Go to the Extensions view (Ctrl+Shift+X).
   * Search for "GitHub Pull Requests and Issues" and install it.
2. **Sign in to GitHub in VS Code:**
   * Lower lefthand corner, click account icon and select github account
   * Log in using browser
   * Follow the on-screen prompts to authenticate your GitHub account.

**Step 2: Create and Clone a Repository**

1. **Create a New Repository on GitHub:**
   * Go to [GitHub](https://github.com).
   * Log in with your credentials.
   * Click the **+** icon in the top-right corner and select **New Repository**.
   * Fill in the repository details:
     + **Repository Name:** Enter a name ( team-project-demo).
     + **Description:** Optionally, add a brief description.
     + **Visibility:** Choose **Public** or **Private** based on your project.
   * **DO NOT check any boxes (leave "Add a README file", "Add .gitignore", and "Choose a license" unchecked).**
   * Click **Create Repository**.
2. **Add an Initial File to the Repository:**
   * You need at least one file in the repository to clone it. Do the following:
     + On the repository page, click **Add File** > **Create New File**.
     + Name the file index.html (or any other file name).
     + Add some basic content:

<!DOCTYPE html>

<html>

<head>

<title>Team Project Demo</title>

</head>

<body>

<h1>Welcome to Our Project!</h1>

<p>This is the landing page.</p>

</body>

</html>

* + - Scroll down and click **Commit New File**.

1. **Clone the Repository in VS Code:**
   * Copy the repository URL from GitHub.
     + Click the **Code** button on the repository page.
     + Copy the HTTPS link (e.g., https://github.com/your-username/team-project-demo.git).
   * Open VS Code.
   * Open the **Command Palette** (Ctrl+Shift+P or Cmd+Shift+P).
   * Select Git: Clone.
   * Paste the repository URL and press Enter.
   * Choose a folder on your local machine to save the repository.

**Step 3: Use Branches in VS Code**

1. **Create a New Branch:**
   * Open the **Source Control** tab in VS Code (Ctrl+Shift+G).
   * Click the branch name at the bottom-left corner of VS Code.
   * Select Create New Branch.
   * Enter a name for the branch (feature/add-login) and press Enter.
   * You are now working on the new branch.
2. **Switch Between Branches:**
   * Click the branch name again.
   * Select another branch to switch to it.

**Step 4: Add and Commit Changes**

1. **Add Files or Modify Existing Files:**
   * Open the repository folder in VS Code.
   * Modify index.html or create a new file:
     + For example, create login.html:

<!DOCTYPE html>

<html>

<head>

<title>Login</title>

</head>

<body>

<h1>Login Page</h1>

<form>

<label for="username">Username:</label>

<input type="text" id="username" name="username">

<label for="password">Password:</label>

<input type="password" id="password" name="password">

<button type="submit">Login</button>

</form>

</body>

</html>

1. **Stage Changes:**
   * Go to the **Source Control** tab.
   * Hover over the file(s) you edited and click the + icon to stage them.
2. **Commit Changes:**
   * In the **Source Control** tab, enter a commit message (e.g., Add login page).
   * Click the checkmark icon to commit your changes.

**Step 5: Push Changes to GitHub**

1. **Push the Branch:**
   * Go to the **Source Control** tab.
   * Click the three dots (...) in the top-right corner.
   * Select Push to send your changes to GitHub.
   * VS Code will prompt you to publish the branch if it’s the first time pushing.

**Step 6: Create and Review Pull Requests**

1. **Create a Pull Request (PR) on GitHub:**
   * Go to your repository on GitHub.
   * Click the **Pull Requests** tab and then **New Pull Request**.
   * Select the branch you worked on ( feature/add-login) and compare it to the main branch.
   * Add reviewers and a description.
   * Click **Create Pull Request**.
2. **Review PRs in VS Code:**
   * Open the **GitHub Pull Requests and Issues** extension in VS Code.
   * Select the PR and review the changes.
3. **Merge the Pull Request:**
   * Once approved, go back to GitHub and click **Merge Pull Request**.

**Step 7: Use Issues and Project Boards**

1. **Create an Issue on GitHub:**
   * Go to the **Issues** tab and click **New Issue**.
   * Add a title (e.g., "Create login functionality") and description.
   * Assign the issue to a team member.
2. **Link Issues to Pull Requests:**
   * In the PR description, add:

Closes #1

Replace #1 with the issue number.

1. **Set Up a Project Board:**
   * Go to the **Projects** tab and create a new project.
   * Add columns (e.g., "To Do," "In Progress," "Done").
   * Add issues to the project and move them between columns as work progresses.
   * Track team progress using GitHub Issues and Project Boards.