🧑‍💻 User Manual: GitHub + VS Code + GitLens – Task Workflow

📌 Start with a Task

- You'll receive a task from your lead (usually via GitHub Issue or direct message).
- Example Task: `Create Profile Page`

🔲 1. Create Feature Branch from GitHub UI

1. Go to the GitHub Repository in browser.
2. On the **top left**, click the dropdown next to the branch (e.g., `main`).
3. In the **search bar**, type your new branch name like:
   `feature/profile-page`
4. Below, click on:
   ➕ `Create branch: feature/profile-page from 'main'`
5. GitHub now creates the branch and switches to it.

💻 2. Pull That Branch in VS Code

1. Open VS Code.
2. Open terminal and run:
3. `git fetch origin`
4. `git checkout feature/profile-page`
5. You're now on your feature branch locally.

Alternatively, with **GitLens**:

- Open GitLens sidebar → **"Branches" tab**
- Expand **Remotes > origin**
- Right-click your new branch → **Checkout**

✍️ 3. Make Your Changes

- Work on the feature task in your local codebase.
- Save and test everything locally.

☑️ 4. Commit & Push Your Code

In terminal:

```
git add .
git commit -m "feat: added profile page"
git push origin feature/profile-page
```

Or using **GitLens**:

- Go to the Source Control tab in VS Code (or GitLens sidebar)
- Stage, commit, and push using the UI buttons

🔃 5. Create a Pull Request (PR) on GitHub

1. After push, go to your repository on GitHub
2. GitHub will show:
   ☑️ "Compare & Pull Request" → click it
3. Fill in:
   - o **Title**: Feature: Profile Page
   - o **Description**: What was added/changed
4. Click **Create Pull Request**

GitHub will now:

- Run your CI/CD workflow (via GitHub Actions)
- Show status under the **"Checks" tab** in the PR

⌛ 6. If Your Branch is Outdated with `main`

GitHub may show:

"This branch is out-of-date with the base branch"

To fix this using **VS Code + GitLens**:

Option A – Use Terminal

```
git checkout main
git pull origin main
git checkout feature/profile-page
git merge main
```

Fix conflicts (if any), commit, and push.

Option B – Use GitLens

1. Checkout to your branch in GitLens
2. Open GitLens sidebar → **Branches**
3. Right-click `main` → **Merge into Current Branch**
4. Resolve any conflicts if prompted
5. Commit + push

Once pushed, your PR on GitHub will update automatically.

👀 7. PR Review, Approval & Merge

1. Another team member reviews your PR
2. They click **"Approve"** and then **"Merge pull request"**
3. Once merged:
   - o Click **"Delete branch"** on GitHub (optional but clean)

🔄 8. Sync with Main After Merge

Back in VS Code:

```
git checkout main
git pull origin main
```

You now have the latest codebase and can start your next task!

Let me know if you'd like a version with screenshots or want to enforce naming conventions for branches.