

smartattend Git Link: <https://github.com/PatelManarth/SmartAttend>

smart-attend-frontend Git Link: <https://github.com/PatelManarth/smart-attend-frontend>

<team_member_branch> : "your first name-branch"

(manarth-branch) (shriram-branch) (manu-branch) (rakshay-branch)

Workflow for Team Members

1. **Each team member clones the repository and checks out their branch in the main repo:**

```
git clone https://github.com/PatelManarth/SmartAttend
```

```
cd smart-attend
```

```
git submodule update --init --recursive
```

```
git checkout <team_member_branch>
```

2. **Each team member navigates to the smart-attend-frontend and checks out their branch:**

```
cd smart-attend-frontend
```

```
git checkout <team_member_branch>
```

```
cd ..
```

3. **Each team member makes changes in their respective branches in the main repo:**

```
git checkout <team_member_branch>
```

```
# Make changes in smart-attend-backend or smart-attend-registration
```

```
git add .
```

```
git commit -m "<team_member>: updated backend or registration"
```

```
git push origin <team_member_branch>
```

4. **Each team member makes changes in their respective branches in the smart-attend-frontend repo:**

```
cd smart-attend-frontend
```

```
git checkout <team_member_branch>
```

```
# Make changes in React app
```

```
git add .
```

```
git commit -m "<team_member>: updated frontend"
```

```
git push origin <team_member_branch>
```

```
cd ..
```

Merging Changes into finalize-branch (will do only when we are sure of it)

Once your pull request is created, it will be reviewed by the team. If approved, it will be merged into the finalize-branch by the team lead

1. Merge changes from each team member's branch into finalize-branch in the main repo:

```
git checkout finalize-branch
```

```
git pull origin finalize-branch
```

```
# Merge each team member's branch
```

```
git merge manarth-branch
```

```
git merge shriram-branch
```

```
git merge manu-branch
```

```
git merge rakshay-branch
```

2. Resolve any conflicts if they arise.

3. Push the finalized changes to finalize-branch in the main repo:

```
git push origin finalize-branch
```

4. Merge changes from each team member's branch into finalize-branch in the smart-attend-frontend repo:

```
cd smart-attend-frontend
```

```
git checkout finalize-branch
```

```
git pull origin finalize-branch
```

```
git merge manarth-branch
```

```
git merge shriram-branch
```

```
git merge manu-branch
```

```
git merge rakshay-branch
```

```
git push origin finalize-branch
```

```
cd ..
```

Final Merge into main (done only when everyone has agreed to make the merge)

1. Merge finalize-branch into main in the main repo:

git checkout main

git pull origin main

git merge finalize-branch

2. Push the changes to the main branch in the main repo:

git push origin main

3. Merge finalize-branch into main in the smart-attend-frontend repo:

cd smart-attend-frontend

git checkout main

git pull origin main

git merge finalize-branch

4. Push the changes to the main branch in the smart-attend-frontend repo:

git push origin main

cd ..

Best Practices

- **Write clear commit messages** that describe the changes you made.
- **Test your changes** locally before pushing.
- **Review pull requests** before merging to ensure code quality.

Summary

This workflow ensures that changes from each team member in both the main repository and the smart-attend-frontend repository are merged into a finalize-branch, where conflicts are resolved. Once all changes are finalized and conflicts are resolved, the finalize-branch is merged into the main branch in both repositories. This process ensures that all changes and new files are included in the final version.