

Documentation

Project Planning and Development Process

Create GitHub Issues

- Integrate firebase Real time Database
- Design daily water consumption UI
- Implement firebase authentication
- Create login screen

Set Up a GitHub Project Board

- Go to the Projects tab → Click New Project.
- Select Board view.
- Name your board, e.g., SDG6 Mobile App DevOps Board.
- Add columns:
 - To Do
 - In Progress
 - Done
- Link issues to this board for easy tracking:
- Open each issue, click Linked Projects, and assign it to the appropriate board.

Set Up Git Branching Workflow

Clone the repository

git clone <https://github.com/Thamiliny/mobile-App.git>

cd mobile app

Create and push the dev branch

git checkout -b dev

git push origin dev

For each feature, create a separate branch:

git checkout -b feature/feature-name

Add a Pull Request Template

In the root of your repository

Create a folder: .github/

Add a file: PULL_REQUEST_TEMPLATE.md

Briefly explain what your PR does.

 Checklist

- [] Feature implemented
- [] Code builds without errors
- [] Tests added or updated
- [] Related documentation updated

Add a Contributing Guide

In the root directory, create CONTRIBUTING.md.

 Contributing Guide

Git Workflow

- Use the `dev` branch for active development.
- Create a feature branch: `feature/your-feature-name`.
- Use pull requests to merge into `dev`.

Commit Message Format

Follow Conventional Commits:

- **`feat`**: for new features
- **`fix`**: for bug fixes
- **`docs`**: for documentation

CI/CD and Quality Assurance

Add GitHub Actions for Android CI/CD

name: Android CI

on:

push:

branches:

- dev

pull_request:

branches:

- dev

jobs:

build:

runs-on: ubuntu-latest

steps:

- **name:** Checkout code

uses: actions/checkout@v3

- name: Set up JDK
uses: actions/setup-java@v3
with:
java-version: '11'

- name: Build project
run: ./gradlew build

Update README.md

SDG6 Mobile App – Database

This mobile app helps users track daily water usage, learn about rainwater harvesting, and access offline tips.

Built With:

- Android Studio (Java)
- Firebase Realtime DB
- GitHub CI/CD