Progress Report Sprint 2

- Course Name: CS461 Senior Software Engineering Project I

- Date: 10/26/25

- Team Name: Mindfulness with Nature App

- Team ID: 35

- Student Names and Emails:

  - Anshu Avinash - avinasha@oregonstate.edu

  - Mitchell Bourdukofsky - bourdukd@oregonstate.edu

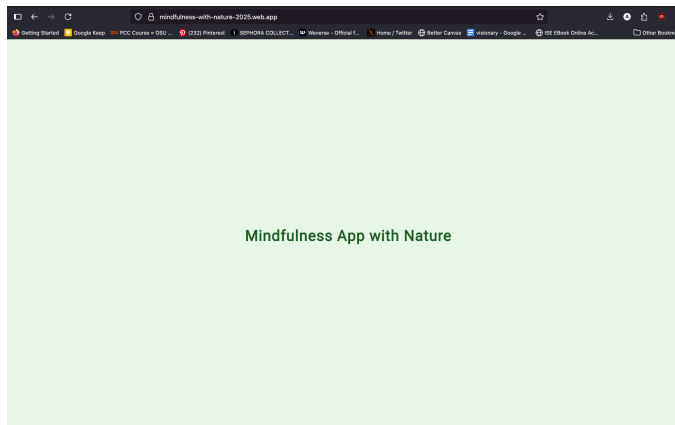 - Ryan Kelly - kellyr3@oregonstate.edu

Summary

- Created repository
- Opened issues with due dates
- Met asynchronously and in person to plan and divide work
- Created Figma initial prototype
- Started using Flutter to begin development

Progress vs Plan

PLANNED ITEM	STATUS (% OR DONE/PARTIAL/NOT DONE)	LINKS (ISSUE/PR)	NOTES/BLOCKERS	PLAN CHANGE (IF ANY)
SETUP THE GITHUB REPOSITORY	Done	[Link](#)	None	None
ESTABLISHED TEAM COMMUNICATION	Done	None	Discord server, Outlook, and In-person meeting	none
CREATE PROJECT BOARD AND BACKLOG	Partial	[Link](#)	5 initial tasks in backlog and some are in-progress tab. Still working on adding more	Will complete backlog refinement planning
DEFINE DEVELOPMENT WORKFLOW	Not Done	N/A	Discussion started, but not formally documented	Priority for Sprint 3
CREATE INTIAL FIGMA PROTOTYPE	Partial (Setup)	[Link](#)	Figma workspace created and shared with team. Initial file structure established.	Team alignment on design approach needed before active prototyping begins

Evidence of Working Software

https://mindfulness-with-nature-2025.web.app/

Initial Flutter build successfully deployed to Firebase Hosting. This confirms our CI/CD pipeline and shows how we can automatically deploy from our repository to a live web environment.

Risk and Quality

1. Risk: Undefined development workflow may cause merge conflicts, inconsistent code, and team tension.
   - Owner: Whole Team
   - Status: Active. Discussed but not documented.
   - Mitigation: Define and document a Git branching strategy and review process in Sprint 3
2. Risk: Scope inconsistency caused by unfinished backlog and missing acceptance criteria
   - Owner: Whole team
   - Status: Active. Backlog has initial tasks but lacks detail
   - Mitigation: Hold a backlog refinement session to separate backlogs and establish clear acceptance criteria
3. Risk: Lack of shared component library and regular design development syncs may result in implementation deviation from the Figma prototype, requiring rework.
   - Owner: Whole Team
   - Status: Monitoring. Figma is set up, but work hasn't started
   - Mitigation: Plan a design sync meeting at the start of Sprint 3 to align on visual components before active development begins

Quality Status:

- **Bugs:** 1 open bug reported
  - Authentication Failure for Firebase CI/CD
    - Status: Pending Resolution
    - Description: The Final deployment step failed repeatedly with the error: "*Failed to authenticate, have you run firebase login?*"
    - Root Cause: Service Account CI token generated by "firebase login:ci" is experiencing issues when trying to deploy with GitHub Actions.
- **Test Coverage:** 0%. The test application has not yet been implemented
- **Code Quality:** No established standards.
- **Concrete Actions for Next Sprint:**
  1. Define and document code style guidelines
  2. Add a basic layer to the CI pipeline
  3. Write an initial unit test for the first Flutter components we build

Next Goals

- Define and document the team's GIT branching strategy and code review process.
- Implement the core navigation structure between the main tabs (Home, Guided Sessions, My Journey). (Supports REQ-002, REQ-004)
- Develop a reusable UI component using the Figma design system (e.g., Mood check-in button/selector, journal entry card) (supports REQ-010, REQ-004)
- Add initial unit test for the core app model and navigation logic.
- Develop complete design structure for finished app and develop user stories to have a full list of future goals.

Individual Contributions

- Mitchell:
  - Initialized baseline Flutter application template and pushed it to the GitHub repository.
  - Set up continuous integration through Firebase Hosting and GitHub Actions.
- Anshu
  - Opened initial issues in the projects backlog
  - Created and shared the initial Figma workspace.
- Ryan
  - Drafted email to partner regarding new meeting and design specifics/details
  - Created Issues and milestones/due dates for issues in github project page
  - Working with Anshu on Figma prototype

Team Process Reflection

Our initial teamwork has been effective, with a combination of productive in-person meetings and consistent asynchronous communication on Discord to coordinate on the sprint and requirements documentations. We successfully constructed our technical basis by configuring the Flutter environment and Figma workspace. A key learning was realizing that a defined development methodology is a requirement for efficient work, not something that can be put off. We are taking action on this by setting a meeting with our project partner for next week to confirm expectations before finalizing our workflow in a Sprint 3.