Weekly Report 1

Progress Summary

Scope Table

Title	Status	Date Completed
get static website set up and hosted	Complete	3/19/2025
design lightweight database schema	In Progress	
set up database in Azure	In Progress	
database is accessible through docker-compose (for testing and development)	Not Started	
set up core views & viewmodels with navigation	Complete	3/19/2025
API endpoints for courses, assignments, and to-do items	Not Started	
basic auth setup		
API is deployed to AKS	Not Started	
integration tests for API, database	Not Started	
unit tests	Not Started	
AKS cluster configured	Not Started	
API running in AKS	Not Started	
services set up for interacting with the db	Not Started	

Learning Outcomes

Title	Status	Date Completed
Become familiar with a mobile application development environment.	Complete ▾	3/18/2025
Understand the basics of mobile application lifecycle.	Not Started ▾	
Design and lay out mobile application user interfaces.	In Progress ▾	
Utilize advanced techniques such as data binding to minimize the amount of UI code required in a mobile application.	Complete ▾	3/21/2025
Be able to recognize and use common GUI framework elements, patterns and concepts.	Not Started ▾	
Be comfortable testing mobile application code.	Not Started ▾	
Be able to deploy an existing application to the public cloud.	Complete ▾	3/20/2025
Understand the differences between virtualization and containerization.	Not Started ▾	
Use security controls and technologies available to properly isolate and secure cloud resources.	In Progress ▾	
Develop skills necessary to deploy and manage code in a public cloud environment.	Not Started ▾	
Be able to compare and contrast the differences and tradeoffs between IaaS, PaaS, SaaS, and other cloud models.	Not Started ▾	
Practice automating the compiling, testing and deploying of your code directly into a production environment.	Not Started ▾	

Work Logs

These time logs outline our meetings spent mob programming, debugging, and planning as a group.

Group Sessions								
Date	Attendance	Time Started	Anticipated Duration	Goal/Focus	How You'll Know You're Done	Time Stopped	Elapsed	Additional Notes
3/17/2025	Audrey, Cody, Mateo, Taft	3:40:00 PM	2 hrs	- decide on a project direction - discuss alternatives to Notion for project planning/coordination	We'll have decided on a project and walked through each step of the project proposal assignment.	6:25:00 PM	2:45:00	- moving forward with TMA - to address concerns about limited complexity, we can pull from a list of handy tools (pomodoro timer, schedule visualizer, etc.) and implement those - Canvas integration is up in the air, but it would be awesome
3/18/25	Audrey, Cody, Mateo, Taft	1:30:00 PM	30 min	- finish wireframes - brainstorm names	finish the set of app wireframes and the static website wireframe, have a few options for names	2:00 PM	0:30:00	thinking about adding complexity (and uniqueness) to the app by introducing a social aspect (game-ify the app through competitions with friends, messaging (?), etc.)
3/18/2025	Audrey, Cody, Mateo, Taft	3:15:00 PM	10 min	brainstorm ways to add complexity to the app - social aspect? game-ify task completion?	brainstormed why/why not this might be a good idea, and how it changes prior planning	3:25:00 PM	0:10:00	
3/18/2025	Audrey, Cody, Mateo, Taft	4:45:35 PM	1.5 hrs	review proposal rubric, reevaluate decided azure services, plan for Friday's demo, start on the static website	have *something* for the static website, and made decisions regarding the azure services	6:18:24 PM	1:32:49	- using AKS (original plan for containerization)
3/19/2025	Audrey, Cody, Taft	1:30:00 PM	50 min	Alex's assignment Static web site Talk through items on the scope Set up basic MAUI app with navigation Set up tests for MAUI app	read through all requirements in telemetry final project & discuss how that overlaps with cloud/mobile requirements, got the static website running, and added a rough outline for the scope table	2:20:00 PM	0:50:00	
3/19/2025	Audrey, Cody, Mateo, Taft	4:22:06 PM	1:40 min	Finish Navigation. Work on static site.	When Tab Navigation works and allows us to switch pages, and static site is deployed	6:24:42 PM	1:50:00	- building out static site features (pomodoro, demo sandbox) - email authentication
3/20/2025	Audrey, Cody, Mateo, Taft	1:10:00 PM	40 min	Get custom domain with static site (Mateo) Finish home page design and implement Pomodoro widget	Static site is up on the custom domain & we discuss the current design of the site Plan for this afternoon is set	1:55:00 PM	0:45:00	
3/20/2025	Audrey, Cody, Mateo, Taft	4:45:00 PM	1:30 min	put together demo for tomorrow finish static site	static site feels presentable for tomorrow's demo, and we have a rough outline for talking points during the demo	6:11:23 PM	1:26:23	
3/21/2025	Audrey, Cody, Mateo, Taft	1:15:00 PM	1:00 min	Plan/talk through demo Weekly review, plan for next week Start API logic	Demo is ready, review has been done, when it is time for class	2:20:00 PM	1:05:00	
3/21/2025	Audrey, Cody, Mateo, Taft	3:58:31 PM	25 min	talk about ERD	have a diagram that we can agree on	4:23:03 PM	0:24:32	

Weekly Report 1 Summary

	Individual Hours	Including Group Hours
Audrey	4:54:43	16:13:27
Cody	1:35:00	12:53:44
Mateo	2:20:34	12:39:18
Taft	0:53:31	12:12:14
Group Hours	11:18:44	
Total Time Spent	41:46:29	

Here is a link to the spreadsheet we're using to track our time.

Blocking Issues

Share 3+ different blocking issues that you were stuck on for a while, and how you resolved them.

1. Static Site Deployment - npm

- **Description:**
  - npm is breaking only within our folder.
- **Attempts To Fix:**
  - Tried pulling the docker image found in the workflow, then exec-ed into the container and looked at the relevant script. It didn't tell us anything helpful
  - Escalated to Alex, then solved the problem on our own.

- **Solution:**
  - We read the error messages in the deployment logs more clearly, and realized that the output location was incorrect. Adjusted this to work with vite, and fixed the problem.

2. Static Site Not Building

- **Description/Solution:**
  - npm is broken in our project folder, but we can work around this by using vite commands directly:
    - `Vite`
    - `Vite Build`

3. Toggling Between Tools

- **Description:**
  - To toggle between tool controls in the UI, we initially wanted to use multiple ViewModels for a single ContentView, but weren't sure this was possible (or a good idea).
- **Attempts To Fix/Solution:**
  - As we explored other options, we found a much better solution. Now, we're binding the IsVisible property for each tool to a bool that indicates whether it is active.