

Not another group project!

Manisha Karia and Mohammed Akhoirshida

Topics for Today

Group Work Matters
Common Complaints
Transforming Student Experience
Examples

- Accounting
- Business
- Entrepreneurship

CIS – Project Style



Why Group Work Matters

Scholarly and practitioners' perspective

Teamwork effectiveness

- Fostering inclusiveness
- Motivating different personalities
- Resolving conflicts
- Collaboration
- Coaching
- Empowering

- *DELTAS – Distinct Elements of Talent – Source: <https://www.mckinsey.com/industries/public-sector/our-insights/defining-the-skills-citizens-will-need-in-the-future-world-of-work>

Common Complaints

Common Complaints

Student Perspective

- Uneven workload
- Lack of accountability
- Poor communication
- Scheduling conflicts
- Unclear grading criteria
- Tasks divided not truly collaborative

Faculty Perspective

- Difficult to assess individual work
- Time-consuming
- Frequent conflicts or free-riding
- Student resistance
- Misalignment with learning outcomes
- Hard to ensure meaningful interaction

Transforming student experience

- Align Rigor with Student Stage
- Group Size & Group Member Selection
- Prepare Students with Support Tools: checklists, contracts, check-ins
- Scaffold milestones
- Inclusive practices & rotating roles
- Assessing: criteria and grading scheme clear; process and outcome, individual paired with group/peer/self-evaluations

Managerial Accounting Group Project

*A phased approach to collaborative case
study analysis in Accounting 1C –*

Faculty - Catherina Wong



Project Structure: Bakery Case Study



Phase 1: Cost Analysis

Calculate new product delivery costs



Phase 2: Break-Even Analysis

Determine financial viability threshold



Phase 3: Investment Planning

Quantify required capital investment



Phase 4: Final Recommendation

Present business owner recommendations



Implementation Approach

Structured Feedback

- Each phase requires submission
- Instructor provides guidance between steps

Support Resources

- Step by Step instructions
- Grading rubrics for each phase
- Tutoring office has sample projects

Final Presentation

- Oral presentation required
- Full team participation expected

My journey –
- 3 courses
- International
Project

BUS 10 - Intro

BUS 55 -

Entrepreneurship

BUS 56 – Human

Relations in the

Workplace



“I have not failed 700 times.
I’ve succeeded in proving
700 ways how not to build a
lightbulb.”

- Thomas Edison

Things that worked for me

In-Person

-  Class Discussions
-  Introduction Activities
-  Small Icebreaker Projects
-  Skills Inventory
-  Leveraging Canvas Tools
-  Regular In-Class Check-Ins
-  Relationship-Building Conversations
-  Assessment – Group and Self-evaluation

Online

-  Intro Video/Discussion Board
-  Skills Inventory (Google Form)
-  Leveraging Canvas Tools – group discussion forums, collaborative tools
-  Regular Check-Ins
-  Low-Stakes Collaborative Tasks
-  Prompt Email/Inbox Replies
-  Optional Zoom Drop-Ins
-  Assessment – Group and Self-evaluation/Individual assignment/quiz questions

Tools you can use to make it meaningful and less tedious for faculty

Group Project Design Canvas

Teamwork checklist and contract -

<https://www.student.unsw.edu.au/groupwork>

More group project tools, including group assessments -

<https://www.cmu.edu/teaching/designteach/design/instructionalstrategies/groupprojects/tools/index.html>

Planning Group Work –

- Design
- Supervise
- Assess

Project Lifecycle: Managing Teams & Timelines

Course Name, Team Members, Date

01

Team Structure

Tasks

- Form teams
- Select a team lead
- Choose team name
- Choose a project
- Define roles for each team member

02

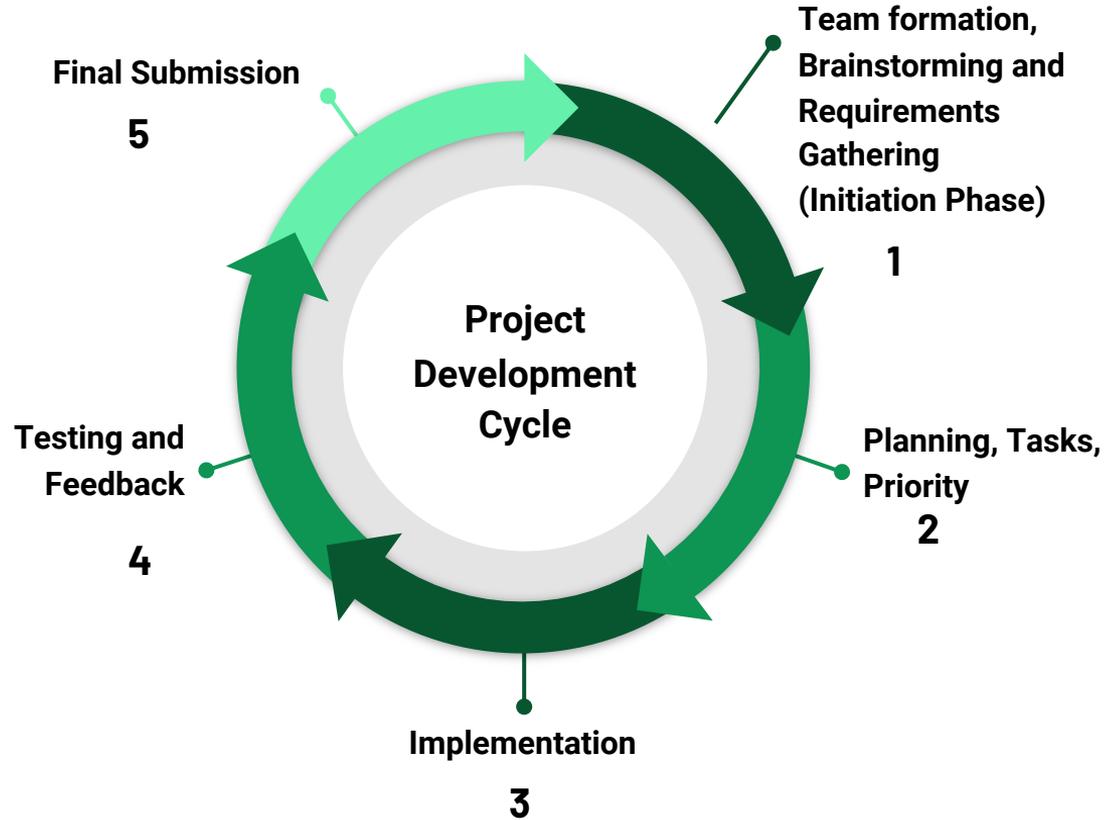
Project Overview & Objectives

Tasks

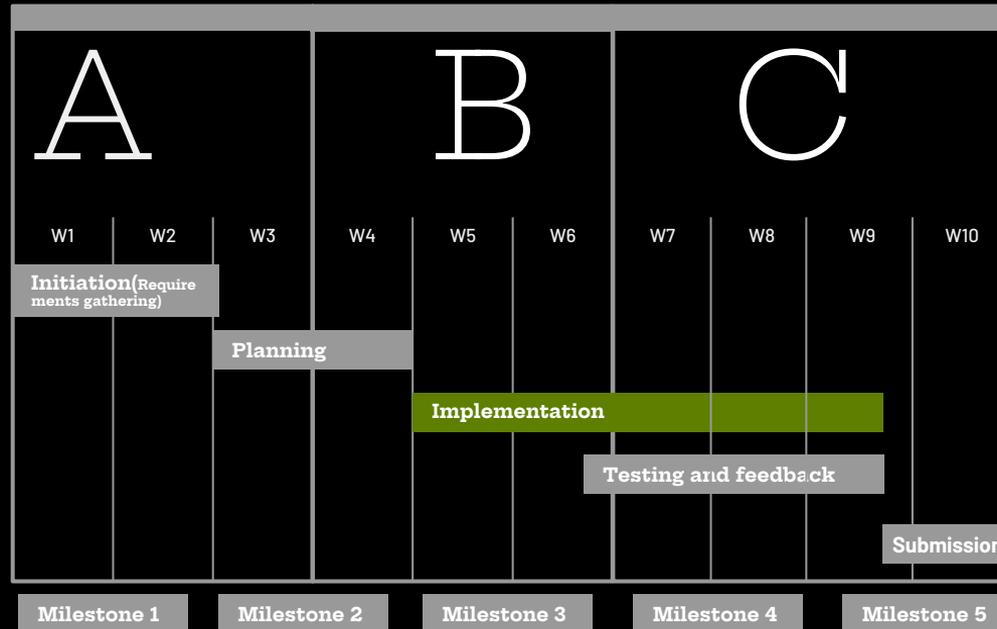
- Define the problem statement
- Problem Analysis & Solution Research
- Propose the solution
- Outline expected outcomes

03

Project Development Phases



Timeline



04

Communication & Risk
Management

Tasks

- Weekly meetings (Use Google meet, Zoom, In person, etc)
- Regular updates (Use slack, discord, Google chat)
- Log potential risks, issues and impacts
- Weekly sync with the professor

05

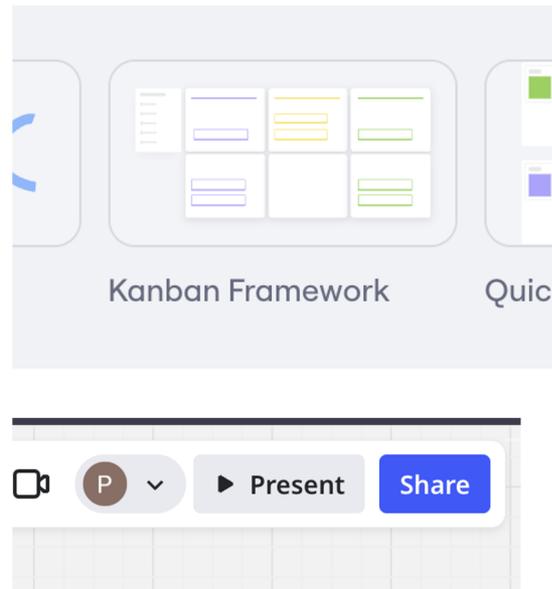
Project management tool
Miro Board

Features

-  Free up to 3 boards, accessible, and team-friendly
-  Perfect for managing college-level projects with clear visibility
-  Helps organize deliverables week-by-week with role assignments
-  Encourages accountability and collaboration

How to use Miro for Project Management?

1. Sign up here <https://miro.com/>
2. Once you have an account, create a new board.
3. Choose the template **Kanban Framework**, when prompted
4. Add your teammates by sharing access to the board.



Kanban Framework

People

🔍 Search by name or email

Backlog | 4

Team A | 2

Type something

Type something

+

Team B | 2

Type something

Type something

+

In progress | 0

+

+

Done | 0

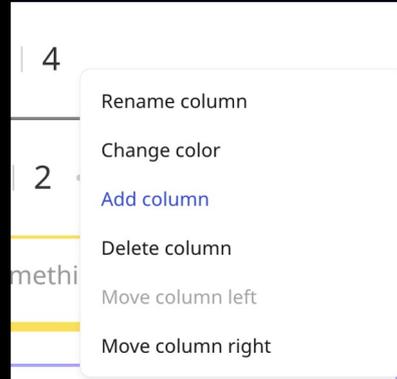
+

+

Add Details to Kanban Framework



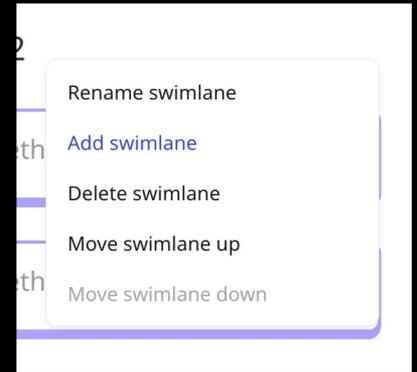
Find and add a member to the framework



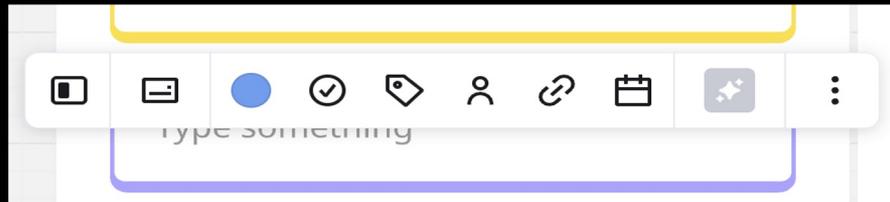
Add/delete a column or update it's name of location by clicking on 3 dots next to column name



Click on new card to add a new task/row in a column

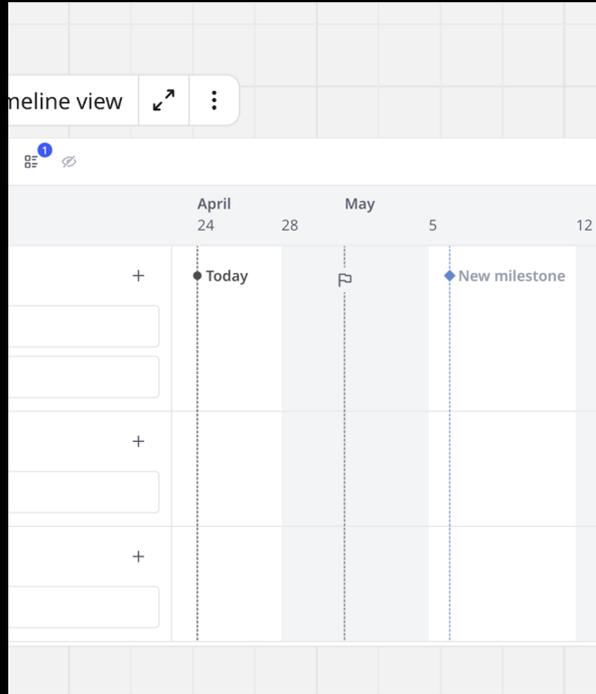


To add a new row for example a new week task list, click on 3 dots in last row and click on add swimlane

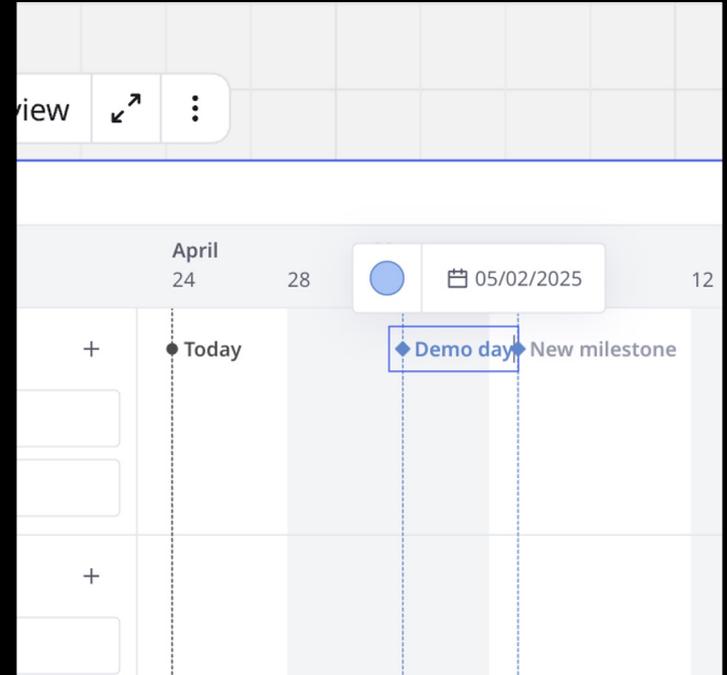


Click on any card, to assign it to any teammate, change color, add tags or assign start and end dates.

Add Details to Roadmap Planning

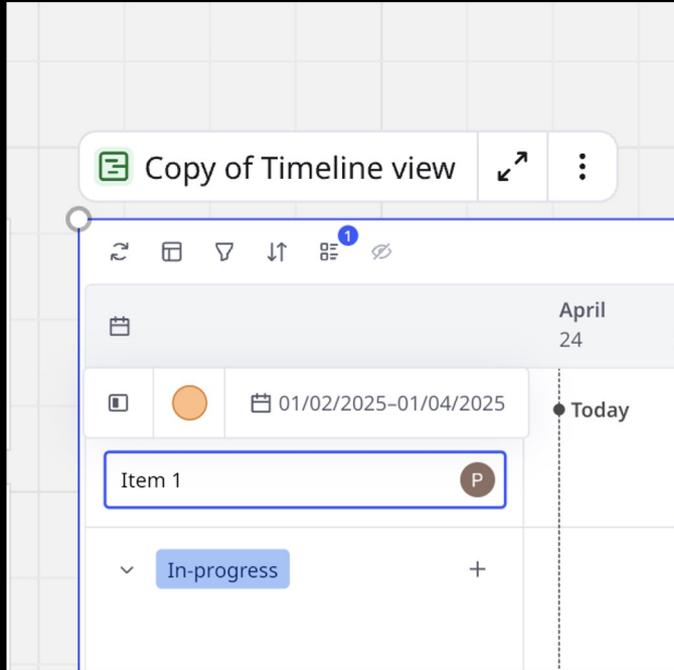


Hover over the timeline view on roadmap planning, you'll see a flag. Click at a point where you want to add a milestone.

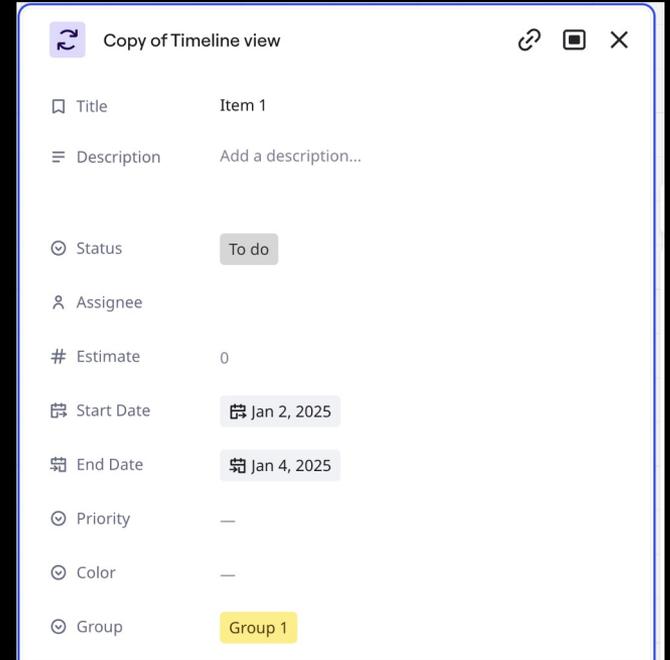


When you click on the flag, you'll be able to edit the name of the milestone

Add Details to Roadmap Planning



Click on an item and from the menu, click on first icon



A side panel will open. We can edit details here as required.

06

Task Breakdown

M1: Week 1- Week 4

- Team Formation
- Project Topic

Week 1

- Research
- Problem Statement
- Proposed Solution

Week 2

- Work Breakdown
- Project Timeline:
 - Start
 - End
 - Milestones

Week 3

- Tool Selection
- Technology use

Week 4

M2: Week 5- Week 8

- Task Allocation
- Documentation Planning

Week 5

- Version Control Setup
- Initial Implementation

Week 6

- Implementation Validation
- Continuation

Week 7

- Regression Test
- Feedback Integration

Week 8

M3: Week 9- Week 10

- Code Review
- Module Integration
- Testing
- Check Point & Feedback

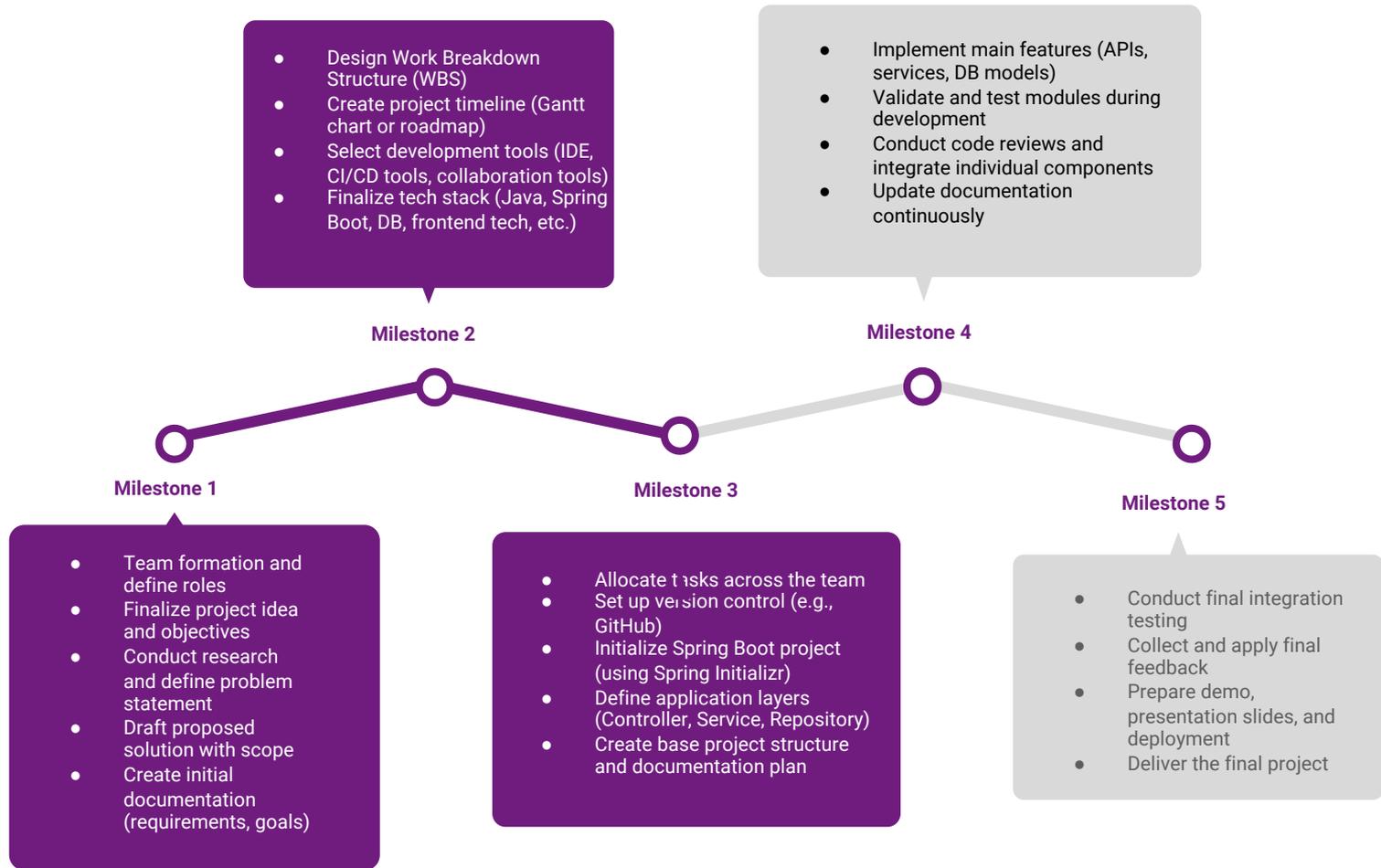
Week 9

- Feedback
- Final Presentation

Week 10

07

Milestones/Checkpoints



Links to Tools

- GitHub - <https://github.com/>
- Discord - <https://discord.com/>
- Slack - <https://slack.com/>
- Google Meet - <https://meet.google.com/landing>
- Zoom - <https://www.zoom.com/>
- Miro - <https://miro.com/>
- Jira - <https://www.atlassian.com/software/jira>

THANK YOU

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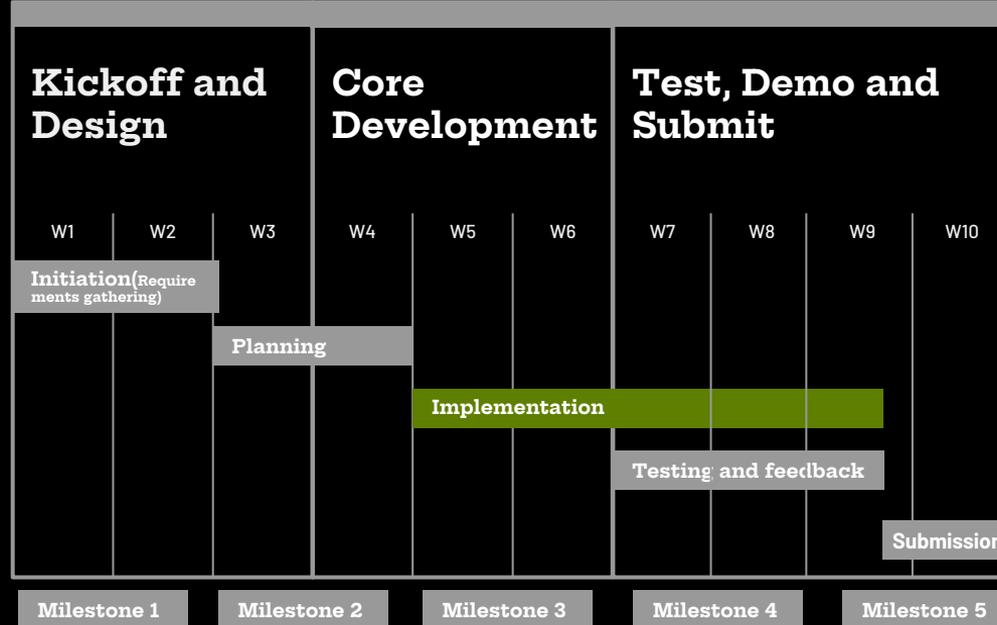
Catherina Wong, De Anza College

Students and faculty colleagues

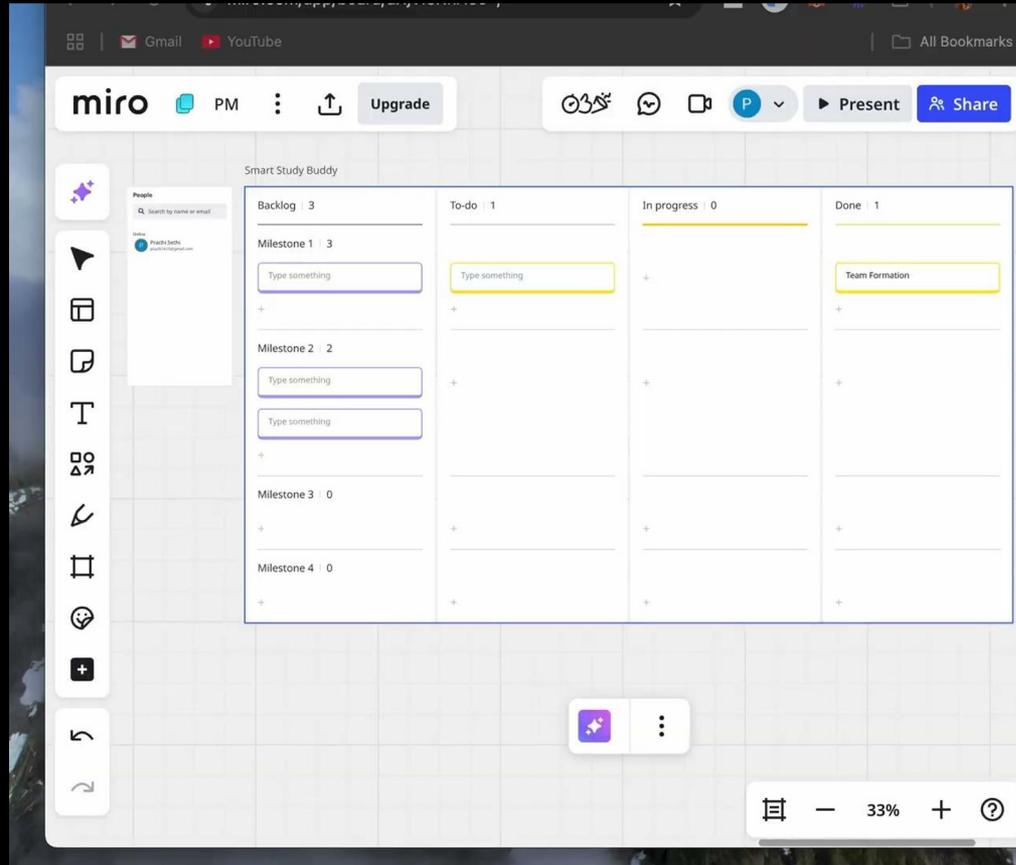
Back Up Slides

Real World Project: Smart Study Buddy

Timeline



Step by Step Video to use Miro



Miro Board

Smart Study Buddy

People

Search by name or email

Online

- Prachi Sethi
prachi101@gmail.com

Backlog 4	To-do 4	In progress 1	Done 1
<p>Milestone 1 3</p> <p>Type something</p> <p>+</p>	<p>Type something</p> <p>+</p>	<p>+</p>	<p>Team Formation</p> <p>Done Apr 25 — Apr 29</p> <p>+</p>
<p>Milestone 2 3</p> <p>Conduct Research May 01 — May 03</p> <p>+</p>	<p>Finalise problem statement</p> <p>Proposed solution</p> <p>+</p>	<p>+</p>	<p>+</p>
<p>Milestone 3 3</p> <p>Work breakdown</p> <p>Project timeline</p> <p>+</p>	<p>Type something</p> <p>+</p>	<p>+</p>	<p>+</p>
<p>Milestone 4 1</p> <p>+</p>	<p>+</p>	<p>Tech Stack</p> <p>P0 To do NoName 1 May 07 — May 16</p> <p>+</p>	<p>+</p>
<p>Milestone 5 0</p> <p>+</p>	<p>+</p>	<p>+</p>	<p>+</p>

Week 1- Week 4

- **Team Formation**
- **Project name**
 - Smart Study Buddy

Week 1

- **Conduct 5 peer interviews on individual study habits to understand the pain points**
- **Problem statement**

Students lack personalized, adaptive study schedules, leading to inefficient planning and last-minute cramming.
- **Proposed Solution**

An AI-driven web app that auto-generates, syncs, and continuously refines personalized study plans based on courses, deadlines, and real-time usage.

Week 2

- **Work Breakdown**

https://docs.google.com/document/d/1g42COAVDX1f7JGTFce7AdfiDtWTF6X5yoN1zilz_PY/edit?tab=t.0
- **Project Timeline:**
 - Start Date - 1st Jan 2025
 - End - 15 March 2025
 - Milestones

Week 3

Week 4 - Week 7

Select tech stack

- Frontend - Next.js
- Backend - Python (FastAPI)
- Database - MongoDB
- PM tool (Miro Board)

Week 4

- Start documenting
- Member 1 - front end
- Member 2 - database
- Member 3 - API integration

Week 5

- Version Control Setup - Git/GitHub
- Create login interface, schedule, courses interfaces
- Create ERD (Entity Relationship Diagram) diagram

Week 6

- Implement the database
- Expose API endpoints
- Sync your code to the GitHub repo
- Test existing modules

Week 7

Week 9- Week 10

- Implement Open Auth for managing user accounts
- Train your AI model and integrate it into your project
- Feedback Integration

Week 8

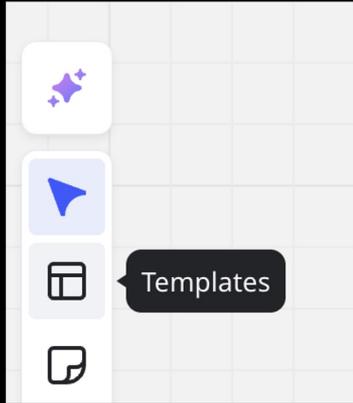
- Code Review
- Integrate frontend and backend
- Testing

Week 9

- Feedback
- Final Presentation

Week 10

Add a new template

A preview of a Gantt Chart template. It features a grid with several horizontal bars of different colors (yellow, purple, green, blue, red) and connecting lines, illustrating task dependencies and scheduling.

 Miro
Gantt Chart

A preview of a Roadmap Planning template. It shows a grid with multiple horizontal bars of various colors (purple, yellow, blue, orange, green) and a legend on the left side, used for visualizing project timelines and milestones.

 Miro
Roadmap Planning

Gantt Chart and Roadmap Planning templates can further be used to define milestones and plan more effectively.