SWE 4663

Software Project Management Term Project Notes (Not a deliverable)

4/8/2025

Definite Goal / Project Objective

You are building a **Project Management System** (desktop application) that allows users to:

- Track software development projects.
- Log and report hours spent across phases (e.g., planning, coding, testing).
- Manage project requirements and risks.
- Control user access based on roles.
- Generate real-time dashboards, graphs, and downloadable reports.

Primary goals:

- Enable efficient project tracking.
- Improve team collaboration.
- Enhance transparency in effort estimation.
- Support data-driven decision-making.
- A. A General section that allows the input of the following information:
 - 1. A high-level description of the software project
 - 2. The owner or the project manager's name
 - 3. A list of project team members (which may vary as the project progresses)
 - 4. A list of risks and risk status

B. Project Requirements

1. Have a feature that allows the user to enter a list of functional and non-functional requirements for the software project

C. Project Effort Monitoring and Tracking

- Have a feature that allows the user to enter (at a daily or weekly basis) the effort in the number of person hours expended on Requirements Analysis, Designing, Coding, Testing, Project Management (by each of the earlier entered requirements)
- Have a feature that allows the user to view the total expended hours by requirements analysis, designing, coding, testing, project management (by each of the requirement entered).

E Tech Stack

Area Tools / Languages

C#

Programming

Language

Framework .NET 8.0

UI Type Avalonia UI

Database sqlite

Version Control GitHub



Member	Role	Responsibilities
Kahmin Keller	Project Manager	Oversees project execution and deadlines
Kevin Syhavong	Lead Developer	Manages core architecture and development
RJ Straiton	UI/UX Designer	Designs user interface and experience
Patrick Cox	QA Engineer	Tests system functionality and performance
Jared Louissaint	Documentation & Research	Prepares documentation and conducts feasibility studies

Major Deliverables

- Fully functional software system
- User and technical documentation
- Test reports
- Final project presentation

77 Agile-Based Schedule

Phase	Duration	Description
Requirements Analysis	1 week	Define system requirements
Design Phase	2 weeks	System architecture and UI design
Development	4 weeks	Build core features
Testing & Debugging	2 weeks	QA and bug fixing
Final Documentation	1 week	Manuals, reports, and final polish

⚠ Risks & Mitigation

Risk	Impact	Mitigation
Scope Creep	High	Lock down scope early; review frequently
Team Coordination Issues	Medium	Use structured comms (e.g., weekly meetings)
Time Constraints	High	Prioritize + allocate buffer time
Technical Challenges	High	Feasibility studies; research ahead

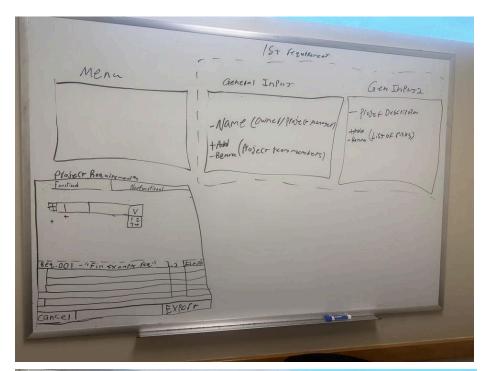
Things to Discuss in the Meeting

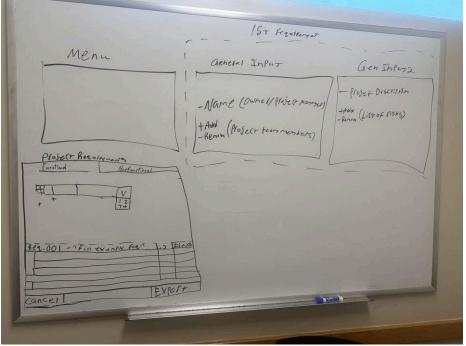
- 1. **Reconfirm everyone's responsibilities** especially for coding vs documentation.
- 2. Decide on your source control and workflow strategy (e.g., branching strategy on GitHub).
- 3. Start breaking up development into actual tasks/stories for sprints.
- 4. **Define early prototypes or mockups** for the UI.
- 5. **Establish meeting cadence** (e.g., weekly stand-ups).
- 6. Set deadlines for key deliverables (milestone planning).

7.	Clarify testin	g plan – who's	writing unit tests	, when to do	integration testing.	

8.	Talk about documentation ownership – who updates what and when.

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Team Roles & Responsibilities

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Database = SQL (MSFT Access)

Need to get homepage up an running (axml)

Cap requirements (parent and child) @ 999

Side note: Maybe get gitKraken

Log in

Organization ID: mainuser Password: password

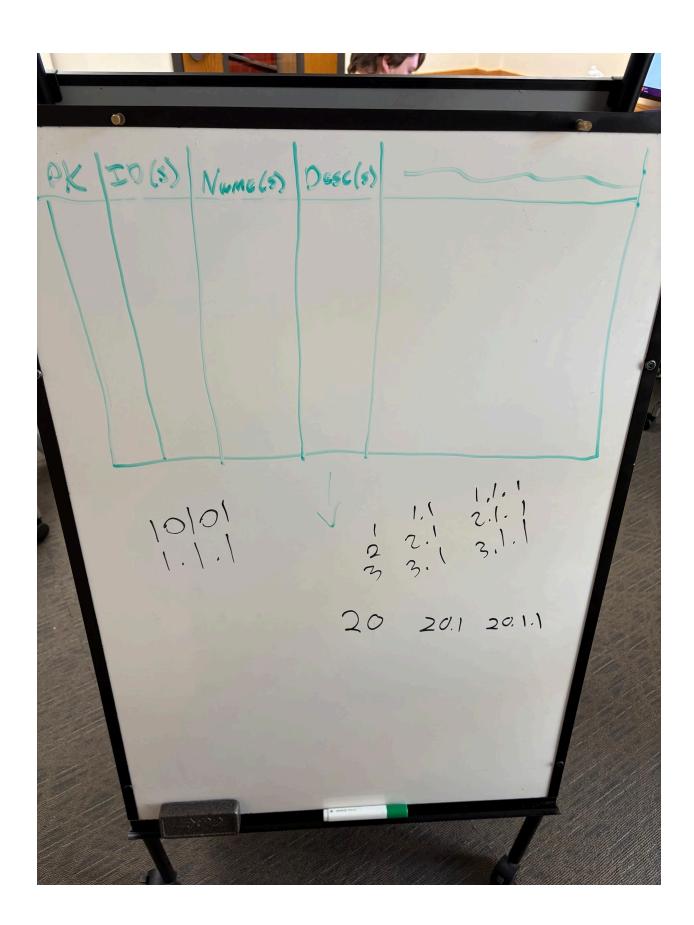
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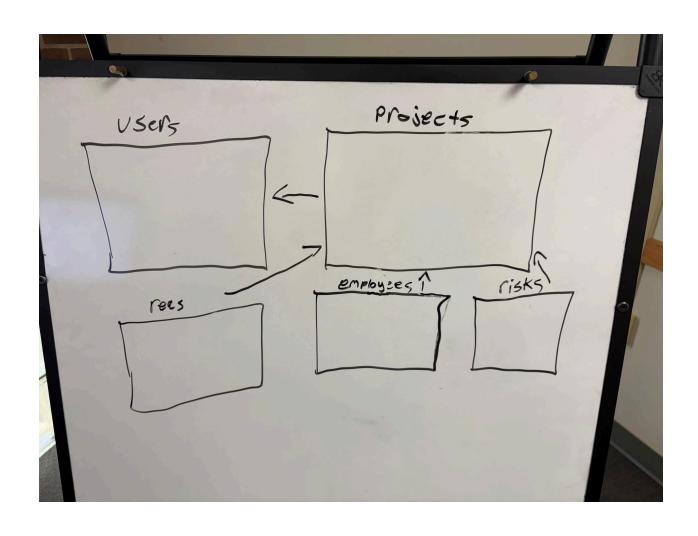
Definites from this meeting

Kevin & Patrick = work on viewModel and MainWindowView model (familiarization and getting something going) For next meeting: work on getting screen format to 2 text inputs and a button Khamin = back and front end (support)

RJ = backend and database

Jared = whatever he can





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What's	done	already	۷:
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- Main screen and log in
- Existing projects (with scroll wheel, create new project button, and delete project button)

What needs to be done:

- Project requirements page (functional and nonfunctional): specific items required for a project (example: functional = user will be able to log in and log out, non-functional = system shall respond to user within specific time frame within log in) **Patrick**

Project title	Project id	requirementl D	Requirement Name	Description	Status	priority

Risk page: list of risk associated with a specific project (scope creep, time management)
 Jared

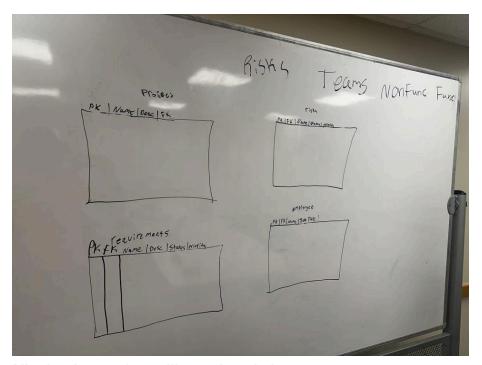
Project title Project id Risk associated
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- Employee page: Basic info about specific users (example: ID number) Khamin

Employee name	Employee ID		
Employee name	Employee ID		

Productivity tracking (example: Hours total for whole group) Kevin

Project Phase name (analysis, design, etc) Weekly hrs Tot hrs Description (maybe)



All other images/page illustrations below
View model = how other pages will interact with other pages
View = page itself

