

# Project Plan Document

TEAM 10 (Section I)

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1. Identify the lifecycle to be followed for the execution of your project and justify why you have chosen the model.

Ans: - We have decided to use Agile methodologies, particularly Scrum. Why we chose Scrum is because of the following reasons: -

- Scrum helps deliver project deliverables quickly and efficiently. The new features are developed incrementally in short sprints. At the end of each sprint, a potentially usable increment of the project is available. This enables us to finish the project earlier and realize the benefits and errors in it much earlier than if we had waited for the entire project completion.
- Ours is just a small-scale project so it's better to take Scrum as it works well for fast-moving development projects
- The team gets clear visibility through scrum meetings and that is favorable for us as none of us have much experience in building projects and this would help us keep track of how the project is coming along
- The individual effort of each team member is visible during the daily scrum meetings
- Large projects are divided into easily manageable sprints focusing on a single functionality.

2. Identify the tools which u want to use it throughout the lifecycle like planning tools, design tools, version control, development tool, bug tracking, and testing tool.

Ans: - The different tools we will be using throughout the lifecycle are:-

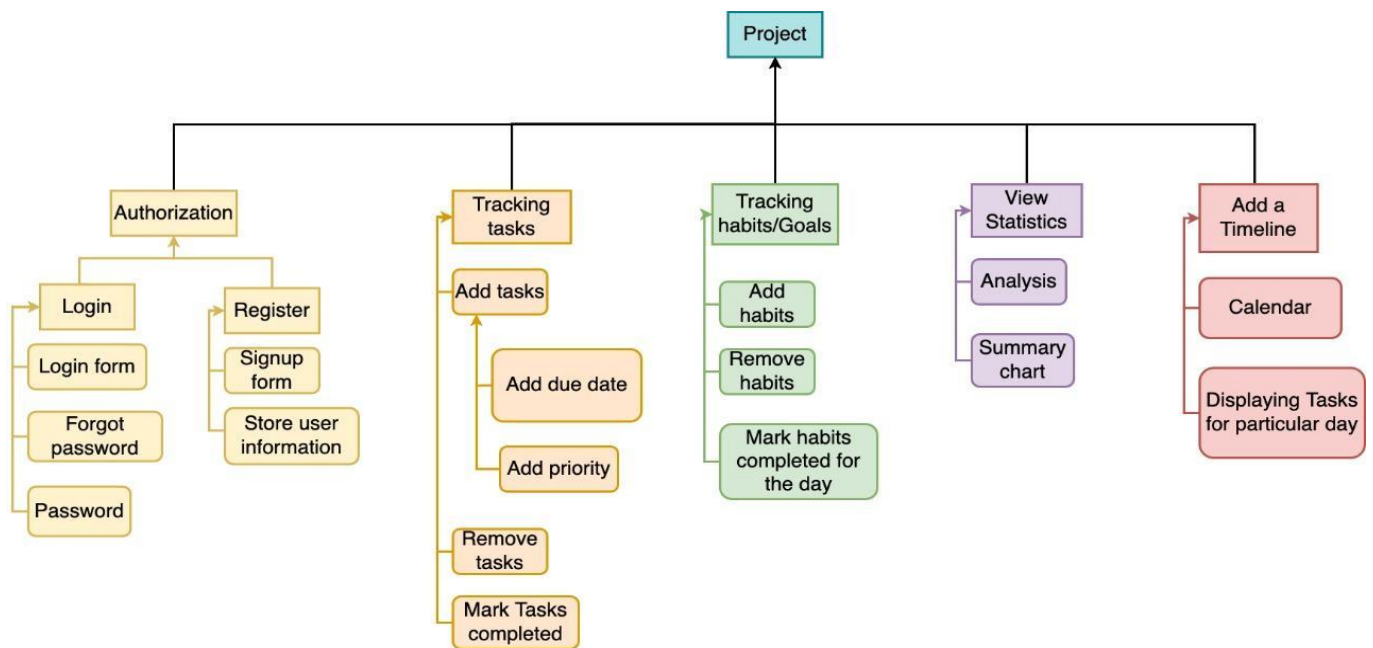
- PLANNING TOOL – Jira
- DESIGN TOOL – Jira
- VERSION CONTROL – GitHub
- DEVELOPMENT TOOL – HTML, CSS, JavaScript, React, Express, MongoDB, Python
- BUG TRACKING –
- TESTING TOOL –

3. Determine all the deliverables and categorize them as reuse/build components and justify the same.

Ans: - The different deliverables are the synopsis, SRS, project planning document, detailed and architectural designs, coding and report submission. The final deliverable is the complete demo the project.

Component-wise deliverables are the login/sign-up page, tracking tasks, tracking habits, viewing weekly statistic and timeline . All these components will be developed from scratch except login page which we will reuse.

4. Create a WBS for the entire functionalities in detail.



5. Do a rough estimate of the effort required to accomplish each task in terms of person-months.

Ans: - Kilo Lines of Codes: 10

$$\text{Effort} = a * (\text{KLOC})^b$$

a = 3.0 and b = 1.12 for Semi-Detached COCOMO

$$\text{Effort} = 39.54 \text{ person month}$$

6. Create the Gantt Chart for scheduling using any tool.

