

## C4GT's DMP 2024 - Proposal

<b>Name</b>	Sakshi Soni
<b>Email ID</b>	sakshirs1234@gmail.com
<b>Phone Number</b>	8799977699
<b>GitHub ID</b>	<a href="https://github.com/sakshi-sonii">https://github.com/sakshi-sonii</a>
<b>Discord ID</b>	Username – sakshisoni Display name - sonism
<b>Current occupation</b> <i>(Working Professionals - add current organization &amp; years of exp)</i>	Student
<b>Education Details</b> <i>(College Name - Degree Name and branch of engineering or other course/specialization)</i>	Shri Ramdeobaba College of Engineering and Management, Nagpur - B.Tech - Computer Science and Engineering
<b>Technical skills with level</b> <i>(Mention tech skills/languages known/UI-UX and level - Novice/Intermediate/Expert)</i>	Python – Intermediate Web Development – Intermediate UI – Novice PHP, LARAVEL – Intermediate Sql - Intermediate

**Title:**

Enhancing Task Manager Efficiency: Introducing Seamless Integration and Intuitive Features

**Summary**

1. Analysis and Requirement Gathering: Thoroughly analyze existing project documentation and requirements to identify areas for improvement and additional features based on user feedback and industry best practices.
2. Planning and Design: Collaborate with the project team to create wireframes and mockups for proposed enhancements. Prioritize features and establish a roadmap for development.
3. Development and Integration: Lead development efforts to implement new features such as Google Calendar integration, notification service integration, single sign-on functionality, and UI/UX enhancements using Laravel and PHP. Ensure codebase follows best practices and is well-documented.
4. Testing and Feedback: Conduct rigorous testing throughout development to identify and address bugs or issues. Gather feedback from users and stakeholders to iterate on design and functionality as needed.
5. Deployment and Support: Assist in deploying the enhanced Task Manager platform. Provide ongoing support and maintenance to ensure smooth operation and address any post-deployment issues.

**Project Detail**

**1. Project Overview:**

**a. Understanding of the project:**

The project involves enhancing an existing Task Manager platform by adding new features, improving user interface and experience, and integrating with external services. The platform aims to provide users with a comprehensive solution for managing tasks, subtasks, and events, along with facilitating collaboration and communication among team members. Key components include task and event management, real-time chat, calendar sharing, and notifications.

**b. Problems (if any):**

1. **Limited Functionality:** The existing Task Manager may lack certain features and integrations that users expect in a modern task management platform.
2. **Usability Issues:** Users may face difficulties navigating the platform or performing tasks efficiently due to a lack of intuitive design.
3. **Security Concerns:** Ensuring data security and privacy is crucial, especially when integrating with external services and handling sensitive information.
4. **Integration Challenges:** Integrating with external services like Google Calendar and notification systems may present technical challenges and require careful planning.
5. **Scalability:** As the user base grows, the platform needs to be scalable to accommodate increased usage and data volume.

**c. Solutions:**

1. **UI/UX Redesign:** Conduct user research and usability testing to identify pain points and areas for improvement in the user interface and experience. Redesign the interface to make it more intuitive and user-friendly.
2. **Security Measures:** Implement robust security measures such as data encryption, secure authentication mechanisms, and compliance with relevant regulations (e.g., GDPR). Conduct regular security audits to identify and mitigate any vulnerabilities.
3. **Integration Strategy:** Develop a comprehensive integration strategy for integrating with external services like Google Calendar and notification systems. This may involve leveraging APIs, establishing secure communication channels, and testing for compatibility and reliability.
4. **Scalability Planning:** Design the platform with scalability in mind, using scalable architecture patterns and technologies. Monitor performance metrics regularly and optimize the system as needed to ensure smooth scalability as the user base grows.

**Implementation Details with Timelines:**

**a. Milestone 1: Prototype Development (Weeks 1-4)**

- Analyze existing codebase and project documentation.
- Identify key areas for improvement and additional features.
- Develop a prototype showcasing basic task manager functionalities, including task creation, assignment, and basic UI enhancements.
- Conduct initial testing and gather feedback from stakeholders.

**b. Milestone 2: Feature Development and Integration (Weeks 5-8)**

- Prioritize features based on feedback and project requirements.
- Develop and integrate new features, including Google Calendar integration, notification service integration, and single sign-on functionality.
- Implement UI/UX enhancements based on user research and usability testing.
- Conduct thorough testing of new features and integrations to ensure functionality and compatibility.

**c. Milestone 3: Testing, Refinement, and Deployment (Weeks 9-12)**

- Conduct comprehensive testing of the entire platform, including regression testing of existing functionalities.
- Gather feedback from users and stakeholders through beta testing.
- Iterate on design and functionality based on feedback and testing results.
- Prepare documentation and training materials for end users.
- Finalize deployment plan and deploy the enhanced Task Manager platform for organizational use.
- Provide post-deployment support and address any issues that arise during the transition period.

**Availability**

Number of hours available to dedicate to this project per week	7 hours
Do you have any other engagements during this period ? (projects/internships)	I have my 7 <sup>th</sup> semester in college and I am Internshala Student Ambassador and an internship till 3 <sup>rd</sup> of July

**Personal Information:**

About Me:

I am a passionate and dedicated student pursuing Computer Science and Engineering in my final year. With a strong background in Full Stack Development using PHP and Laravel, I have a keen interest in leveraging technology to solve real-world problems and improve user experiences.

**Motivation to Apply for this Project:**

My motivation to apply for this project stems from my enthusiasm for enhancing existing solutions and creating meaningful impact through technology. I am excited about the opportunity to contribute my skills and knowledge to the Task Manager project, particularly in implementing new features, improving usability, and integrating with external services. I believe that this project aligns perfectly with my interests and expertise, and I am eager to collaborate with the team to achieve its goals.

**Contribution in C4GT's open community:**

In this section answer the questions about your participation in C4GT's open community tickets, provide the screenshot of the leaderboard with your GitHub ID and DPG points earned (if any).

Have you contributed to tickets in C4GT's open community? <b>(Mandatory to answer)</b>	No
Have you successfully completed C4GT's GitHub Classroom Assignment? <b>(Mandatory to answer)</b>	No
Enter your DPG points <b>(Mandatory to answer, Enter 0 if not applicable)</b>	0
Screenshot of leaderboard with your GitHub ID <b>(Mandatory to answer, enter 0 if not applicable)</b>	0