

Project Plan

Task Manager Application



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Description

The primary objective of this project is to develop a task management application utilizing C#.

Scope

The application will assist users in maintaining organization and focusing on their priorities through a user-friendly design. Key functionalities will include:

- **Task Management:** Creating, viewing, updating, and deleting tasks.
- **Categorization:** Allowing users to categorize tasks for better organization.
- **Prioritization and Deadlines:** Enabling users to set task priorities and deadlines.
- **Data Persistence:** Ensuring that user data is stored and retrieved efficiently.
- **Notifications and Reminders:** Providing users with timely alerts for upcoming tasks.

Team Roles

Developer and Designer: Virag Szabo

Institution: NHL Stenden, Emmen, Netherlands

Tools

Name	Version	Date	Note
Visual Studio 2022	17.8	January 22, 2024	The official source of the project.
WPF	4.5	February 6, 2023	Windows Presentation Foundation (WPF) for creating the UI.
.NET Framework	7.0	November 2022	The ASP.NET Core Runtime enables you to run existing web/server applications.
GitHub	3.11.4	January 30, 2024	Version Control for the project.
Astah UML	8.4	February 10, 2024	Used for creating class diagrams and other UML designs.

Timeline

Date	Title	Description
October 22	Finalize	Comment and review. Create a new presentation video.
October 21	Restructure	Fix up the diagrams, documentation and implementation according to the feedback.
May 1 - June 2	Deployment	Write a User Manual for the Windows application.
February 13	Testing	Debug and make sure the application runs.
February 12	Development	Make a fancy UI. Add comments and review the code.
February 11	Development	Fixing UI and methods. Remain tasks: sort, filter, edit date, priority, status.
February 6	Development	Building up the necessary methods of the project.
February 5	Design	Building up the structure of the project within Visual Studio.
February 4	Requirement Gathering	Create the UML and a use case diagram. Write the start document. Plan out the project for the next days and weeks. Write user stories (MoSCoW).

Risk Management

To guarantee the successful completion of the Task Manager Application, we have identified several potential risks along with corresponding mitigation strategies.

Risk	Description	Mitigation Strategy
Technical Difficulties	This encompasses challenges related to coding, debugging, or software compatibility.	It is advisable to conduct regular code reviews and implement unit testing throughout the development process. Additionally, seeking assistance from colleagues or mentors is encouraged when necessary.
Scope Creep	Unanticipated features or modifications may prolong the project timeline.	It is essential to clearly define the project scope and adhere to the initial requirements. Regular progress reviews in relation to the established scope are recommended.
Time Management	Delays in task completion may adversely affect the project timeline.	The use of project management tools is recommended to monitor progress and deadlines effectively. Prioritizing tasks is essential for optimal time management.
User Acceptance	The final application may fail to meet user expectations.	To ensure alignment with user requirements, it is imperative to conduct user testing and gather feedback during the development phase.
Dependency on External Tools	Challenges associated with third-party libraries or tools may hinder progress.	A thorough evaluation and selection of reliable tools is critical, along with staying updated on any changes or issues concerning dependencies.

Communication Plan

Effective communication is crucial for the success of the project. The following communication plan outlines how the student interact, particularly with the lecturer:

- **Email Communication:** Regularly check emails for updates, feedback, and important announcements.
- **Documentation Sharing:** Use cloud-based storage (e.g., Google Drive) for sharing documents, diagrams, and project files to ensure all team members can access the latest versions.

Quality Assurance

It will ensure that the Task Manager Application meets the specified requirements and is free from critical bugs. The QA process will include:

1. **Test Plan Documentation:** A detailed test plan will be created outlining the testing strategy, objectives, resources, schedule, and deliverables. This document will cover various types of testing, including:
 - a. **Unit Testing:** Each component of the application will be tested individually to ensure correct functionality.
 - b. **Integration Testing:** Testing the integration of different components to verify they work together as expected.
 - c. **Regression Testing:** Ensure that new changes do not adversely affect existing functionalities.