Project Plan

Task Manager Application

A person sitting at a desk working on a computer

Description automatically generated

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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:
   1. **Unit Testing:** Each component of the application will be tested individually to ensure correct functionality.
   2. **Integration Testing:** Testing the integration of different components to verify they work together as expected.
   3. **Regression Testing:** Ensure that new changes do not adversely affect existing functionalities.