Corey Snodgrass

Advanced web dev

6 March 2025

Project Proposal : To-Dooly

**Overview**

*For my project I plan to create a to-do list web application that fits between Microsoft To-Do and Microsoft Projects. This app will be focused on Both small task management and larger projects. This app with let users manage their daily work by letting the create projects, add, organize, and manage their set tasks with potential features like tagging tasks with labels. I plan to show statistics, timing, performance, percentages of tasks completes, and other metrics. This application will feature a secure login and will be very interactive and user friendly. Project management to me is very important and sometimes can determine if a project ever gets finished due to not knowing how much you have done already.*

**Main Functionalities as User Stories**

* **User Registration & Login:**
  + *As a user, I want to sign up and log in so that I can keep my task list private and secure so that all of my information is safe.*
* **Project Management:**
  + *As a user, I want to create, update, and delete projects so that I can organize my tasks into different groups, other applications can get very confusing by having poor organizational indicators and customizability.*
* **Task Management:**
  + *As a user, I want to add tasks to projects, or info to tasks with details like due dates, time, and priorities so that I can manage my work more effectively.*
  + *As a user, I want to edit or remove tasks when I need to so that my task list stays up to date and not cluttered.*
  + *As a user, I want to mark tasks as complete so I can track my progress throughout the day and I want those tasks recorded in a different location for retrospective review.*
* **Labeling and Categorization:**
  + *As a user, I want to add labels or categories to my tasks so that I can filter and organize them to a higher level.*
* **Dynamic Dashboard:**
  + *As a user, I want to see a dashboard with simple statistics like number of completed tasks, pending tasks, and maybe difficulty assumptions so that I have a clear overview of my work and how much time I need to dedicate to the task.*
* **Asynchronous Updates:**
  + *As a user, I want the app to update tasks and statuses without reloading the page so that the experience is smooth and responsive, other applications refresh and collapse all folders and navigations.*
* **RESTful API:**
  + *As a developer, I want a RESTful API for the application so that it can be integrated with other tools or used in mobile apps so that I can access my projects on the go.*

**Technologies that I plan to use**

* **Backend:** *ASP.NET Core MVC*
* **Database:** *Entity Framework Core with SQL Server or SQLite*
* **Frontend:** *JavaScript with AJAX for asynchronous operations*
* **Styling:** *Bootstrap or Tailwind CSS for a more responsive type of design*
* **API:** *Built-in ASP.NET Core Web API for RESTful endpoints*
* **Version Control:** *Git and GitHub for code management*

**AI Disclosure**  
*I used AI tools to help brainstorm and organize the ideas for this proposal. I reviewed and adapted the suggestions to match my own style and meet the assignment requirements, to reduce research times I plan to use AI tools such as Chat Gpt and Black Box to learn syntax and semantics quickly. I will not Copy/Paste blocks of code from chat gpt and all work will be my own.*

**Class Diagram**

*A screenshot of a graph

AI-generated content may be incorrect.*

Here is a link if you need to see it close up.

https://lucid.app/lucidchart/46b76a90-1a60-46e4-961b-a7b9229a87a5/edit?viewport\_loc=-1639%2C-1203%2C2812%2C2040%2C0\_0&invitationId=inv\_f54df96c-e977-44ae-b681-546c013b3a6d