**Task-Management-Project**

*Note: Given that you have one year of IT experience, it's important to work on a project that highlights your technical skills while also demonstrating your problem-solving abilities. Here's a detailed project idea that will help you stand out during interviews:*

**Project Name:** Task Management System with Analytics

***Tech Stack:***

**Backend:**

* ASP.NET Core

**Frontend:**

* Blazor/Angular or React

**Database:**

* SQL Server with Entity Framework

**Additional Tools:**

* SignalR for real-time updates, Azure or AWS for cloud deployment, and Chart.js for analytics.

***Key Features:***

**User Authentication and Role Management:**

* Implement user authentication using ASP.NET Identity.
* Include different roles like Admin, Manager, and User, each with different access levels and permissions.

**Task Assignment and Tracking:**

* Users can create, assign, and track tasks in real-time.
* Set deadlines, attach files, and add comments on tasks.
* Task progress can be marked as Pending, In Progress, or Completed.

**Real-time Notifications:**

* Use SignalR to implement real-time updates for task changes, such as when a task is assigned, updated, or completed.

**Task Prioritization and Deadlines:**

* Allow users to prioritize tasks (e.g., High, Medium, Low) and set deadlines. Include reminders and overdue task alerts.

**Dashboard with Analytics:**

* A dashboard to show task completion rates, upcoming deadlines, overdue tasks, and team performance.
* Use charts and graphs (via Chart.js or similar libraries) to visualize key performance metrics like completed tasks per user or pending tasks per project.

**Search and Filtering:**

* Implement advanced search functionality where users can filter tasks based on priority, deadline, or assignee.

**Admin Panel:**

* A control panel for the Admin to manage users, view project progress, and generate reports on team productivity.

**Deployment on Cloud:**

* Deploy the application on Azure or AWS, demonstrating your understanding of cloud services. Implement CI/CD (Continuous Integration/Continuous Deployment) pipelines to show DevOps understanding.

***Why This Project Stands Out:***

**Comprehensive Skillset**:

* This project shows full-stack development (ASP.NET Core for back-end, Blazor/Angular/React for front-end), real-time communication (SignalR), and cloud deployment (Azure/AWS).

**Practical Relevance:**

* Task management systems are relevant in any organization, and implementing such a project shows you can solve real-world business problems.

**User Experience and Performance:**

* A focus on analytics and user roles highlights your understanding of performance, user access management, and data visualization.

**DevOps Awareness:**

* Deploying on the cloud with CI/CD pipelines shows you're familiar with modern software development practices, which is a big plus for interviews.

*Note: This project demonstrates your knowledge of key .NET technologies while also showcasing your ability to create practical, scalable applications, which will definitely appeal to interviewers looking for candidates with hands-on skills.*

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