

Advanced Programming with .NET

Scenario:

A project management application you need to implement. Where there will a group of members and supervisor will supervise. Project could be of several categories. A project will have dynamic states (like Open, In Progress, Complete)

Features:

- Supervisor:
 - Create Project (by default project state is **Open**)
 - Confirm members (only if the project state is **Open and at least 3 members**)
 - After confirming project state will be **in progress**
 - Can complete projects (only if the project state is **in progress**)
 - See **Open** projects
 - See ongoing projects and members (Project state **in progress**)
 - See Completed projects and members
- Member
 - Login
 - Can see **Open** Projects
 - Apply for **enrollment**
 - Can see applied/In Progress/Complete Projects

Brainstorm the scenario and features and make DB and DB relationships first.

Backend:

- 3 tier architecture with SOLID
- Web API
- Necessary APIs to implement the features