Internship Management System - Project Documentation

# 1. Overview

The Internship Management System is designed to streamline the process of managing interns, their applications, and related tasks. It consists of a .NET backend and an Angular frontend. The system enables CRUD operations, role-based management, and an interface for interns and administrators.

# 2. Tech Stack

- Backend: .NET (C#)  
- Frontend: Angular (TypeScript)  
- Database: SQL Server / compatible DB  
- Version Control: GitHub  
- License: MIT

# 3. Features

- Manage intern applications  
- CRUD operations for interns, supervisors, and tasks  
- Role-based access (Admin, Supervisor, Intern)  
- Angular-based frontend for user interaction  
- REST API powered backend

# 4. Folder Structure

internshipManagement/  
├── .vscode/ → VSCode settings  
├── API/ → Backend (.NET)  
├── frontENDAngular/ → Frontend (Angular)  
├── backendDOTNET.sln → .NET solution file  
├── .gitignore → Git ignore rules  
├── LICENSE → MIT License

# 5. Installation & Setup

1. Clone the repository:  
 git clone https://github.com/kvsrven1976/internshipManagement.git  
 cd internshipManagement  
  
2. Backend Setup:  
 - Navigate to API folder  
 - Run: dotnet restore  
 - Run: dotnet build  
 - Run: dotnet run  
  
3. Frontend Setup:  
 - Navigate to frontENDAngular  
 - Run: npm install  
 - Run: ng serve --open

# 6. Usage

1. Start backend API using .NET commands.  
2. Start Angular frontend using ng serve.  
3. Access the UI at http://localhost:4200  
4. Perform CRUD operations for interns and supervisors.

# 7. API Endpoints

Example endpoints (to be customized based on code):  
  
GET /api/interns - Fetch all interns  
POST /api/interns - Add a new intern  
PUT /api/interns/{id} - Update intern  
DELETE /api/interns/{id} - Delete intern

# 8. Future Enhancements

- Authentication and Authorization  
- Email notifications  
- Dashboard with analytics  
- Pagination and filtering  
- Enhanced error handling

# 9. License

This project is licensed under the MIT License.