**Certification Portal (Quiz creation app)**

## **Project Description**

This project is an online certification portal where users can take tests, earn certificates, and track their progress. The platform offers various certifications across different subjects or skills. Users can browse available certifications, add them to their wish list, take tests, and view their earned certificates. The portal also features a leaderboard to encourage competition and engagement.

**Key Components:**

1. **Home Page** 
   1. Display top certificate tests
   2. Navigation to other pages
2. **Certificate Test Page** 
   1. List all available certificates
   2. Search and filter functionality
3. **Wish list Page** 
   1. Display user's wish listed certificate test
   2. Add/remove from wish list
4. **My Certificates Page** 
   1. Display user's earned certificates
5. **Test Page** 
   1. Timer component
   2. Question display
   3. Answer submission
   4. Test summary
   5. Store answers to backend in regular interval of time for data durability(depends on time)
   6. Dynamic test duration(depends on time)
6. **Leaderboard Page** 
   1. Display leaderboard for each test
7. **Admin Page (will do depends on time)** 
   1. Form for creating new questions
   2. List of existing questions with edit/delete options

## **Technology Stack**

### **Frontend**

## Framework: React

## Language: JavaScript

## HTTP Client: Axios for API requests

### **Backend**

## Framework: ASP.NET Core

## Language: C#

## Database: Entity Framework Core with SQL Server

## API: RESTful API endpoints

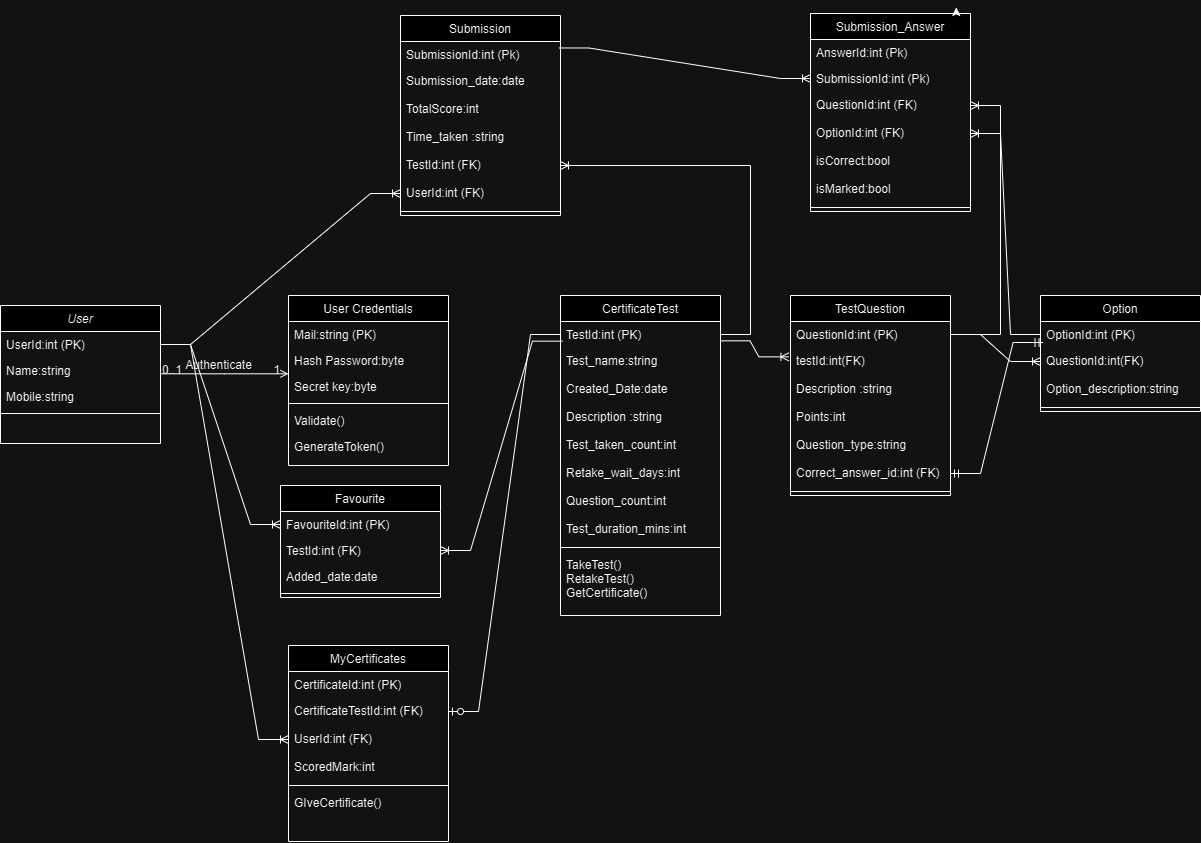
### **Development Tools**

## Version Control: Git

## IDE: Visual Studio (for backend), Visual Studio Code (for frontend)

## Package Managers: NuGet (backend), npm (frontend)

**Class Diagram:**



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