UKG BE ASSIGNMENT - HCM

# The Project

You are assigned to create .NET application for Human Capital Management App. The application should hold people records, which are the main app entities. The functionality of the app should support creating, listing, editing and deleting people's records based on your role. Designing the functionality in terms of functionalities and capabilities will depend on you. The goal is to create a production like software that could cover the needs of an HR team in a small/medium company.

# Task Requirements

1. **People Management:**
   * Implement **CRUD** (Create, Read, Update, Delete) operations for managing **People Records**.
   * Each person record should contain at least the following fields:
     + First Name
     + Last Name
     + Email
     + Job Title
     + Salary
     + Department
2. **User Authentication & Authorization:**
   * Implement a **Login Module**
   * The system should have at least **two user roles of the below**:
     + **Employee** (Can view their own profile only)
     + **Manager** (Can view and edit all people in the department)
     + **HR Admin** (Can manage all people records)
   * Restrict functionalities based on roles.
3. **User interface & navigation:**
   * It is up to you to decide what to use and how to structure it
   * A navigation/buttons should be displayed based on the logged-in user`s role
4. **Testing requirements**
   * Unit tests – write unit tests for couple methods to check business logic and validation rules
   * Integration tests – API endpoints, database interactions, end to end workflow. Few tests are enough, no need to cover everything.
   * UI Tests with selinium (this is optional) – you can choose any screen you want

# Technical Requirements

.NET 8+

# Additional Information

* All assignments should be uploaded to a public GitHub repository with a proper and well structured “README.md” file. Repository name pattern should be named “ukg\_be\_assignment\_hcm\_<first name>\_<last name>.
* You should seed the project with some dummy data upon startup
* You can use in memory database solution for storage
* You can get creative with the design choices if the time allows it. There is no strict design you should follow.
* There is no specific restriction on using third party libraries for the project. It’s important to choose your third-party libraries wisely so they don’t come with huge overhead in usage.

# Asking Questions

For question regarding the assignment itself or in a need of assistance please provide a well-structured question with code examples and screenshots, so we can have a better understanding of the problem. You can send them via email to:

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