

.Net Interview Question

Objective: Create the backend for a question-answering application using C# that includes functionality for users to ask questions, provide answers, and optionally vote on both questions and answers. Each question should have a tag so user can filter the questions by the tags.

Note: *It is not expect to have a full working application. This is only the backend API, database and bulk import tool.*

Requirements:

- Database Design (Code-First Approach):
 - Design the database schema using Entity Framework (EF) Code First.
 - Define the following entities:
 - User,
 - Question,
 - Answer,
 - Question Tags - every question could have many tags
 - (Optional) Votes - store votes for both questions and answers
- Implement Import Logic:
 - Develop bulk import logic to facilitate the addition of questions and answers.
 - You can either generate sample questions and answers programmatically or provide an approach to import them from file.
- Design API:
 - Develop a RESTful API to interact with the application.
 - Create endpoints for the following actions:
 - Posting new questions with specified tags (tags are free text, not predefined list).
 - Posting answers to existing questions.
 - (Optional) Voting on questions and answers.
 - Querying questions by tags.
 - Retrieving question details along with answers.
 - **Note:** Ensure that the API is well-documented.

Deliverables:

- Codebase with EF Code First database design.
- Import logic for questions and answers.
- RESTful API with endpoints for the specified actions.