

# Backend .NET Developer Assessment

by ETIQA IT , revised Jun 2025.

We wanted to hire talent Developer to join our exciting projects to make the world a better place!

- **Expected Skillsets** – ASP.Net Core Web API, Clean Architecture, Database, RESTful API,
- **Bonus:** Client side development skill, Securing the endpoint, Caching Strategy, Pagination, Error Handling, Testing Strategy & *Something that amazed us (e.g. CI/CD, design pattern, CQRS, Fluent Validation, flow control)?!*

## Situation

A fictional company, CDN (Complete Developer Network) is going to build a database of freelancers.

Such that they could have a directory of contact get people for their job.

1. Develop the RESTful API to register/delete/update/get for freelancers using verbs such as:
  - @GET, @POST @PUT, @PATCH, @DELETE
2. The following are attributes for user model:-
  - username, email, phone number, skillsets, hobbies
  - skillsets & hobbies should be stored in separate one-to-many tables.
3. Connect to any of well-known RDBMS database to demonstrate data storage.
4. Implement a wildcard search endpoint to find freelancers by username & email.
5. The architecture must follow Clean Architecture principles, and add at least 2-3 unit tests for the project.
6. The API also need capable to archive/unarchive a freelancer.
7. Build a simple interface for the above 4 operations (Optional):-
  - Listing of registered freelancers.
  - Ability to add new freelancer & update existing freelancer details.
  - Ability to delete an existing freelancer.
8. Produce the above codes, then deploy your code into a GitHub repository.
  - better with a well documented **md** to impress us.
  - ensure your GitHub profile is public, repository is private, then use [Gitfront.io](https://gitfront.io) to create a shareable URL to your private repositories.
9. We expecting you share us your:-
  - GitHub profile URL.
  - [Gitfront.io](https://gitfront.io) generated URL that link to your GitHub private repository.
  - explain your code how it works, what technology was used. (during interview session).
  - demonstrate your code, on how to query data, add data, update data & remove data. (during interview session).
  - may host the working demo at Heroku/AWS/any known platform to demonstrate your work.

===== GOOD LUCK, look forwards to have you in our team :) =====