

Programming Test for Software Developer

Suppose, we need a **Customer Information** portal where we want to store patient's information. Now, you have to design and develop a small patient entry form. By using this module, we can insert, update, delete and display patient information for our business.

Development Guideline:

1. UI design is provided. Please check "UI Design.pdf"
2. Front-end: Front-end will be developed using MVC Core 6.0
3. Back end: Back end will be developed using Web API 6.0
4. Please use Entity Framework Core to insert, update, delete and display data.
5. You can use the MS SQL server database or PostgreSQL database.
6. Please make sure when you send back the project, the SQL script (in case of use of SQL server) or PostgreSQL script must be included in that folder.
7. It will be good if you do a unit test for this small application.
8. Must apply repository code pattern.
9. Please send your code after completing this task. The next step will be proceeded after finishing the deadline.

How to Submit?

Upload your complete and tested code in your GitHub account and share the link in the following emails:

aninda@excelbd.com, mahdi@excelbd.com & mahir.dev@excelbd.com. In GitHub, you must have a **read me** document that will guide how to access the different features of your application.

Through this assignment following ability will be checked:

- How efficiently an applicant can follow instructions.
- Efficiency in C# Programming.
- Efficiency in ASP.NET Core Framework, MVC Framework and Entity Framework Core.
- Efficiency in Code-First development approach.
- Mastery in SQL Server.
- Mastery in Relational Database Management System concept.
- Efficiency in Repository Pattern