

Technologies

Server: ASP.NETCore

Client: PostMan

Database: SQLServer/EFCore

Task

Working in groups, create an ASP.NETCore implementation of the server components required to provide data from a SQLServer database instance (using Entity Framework Core) to the Javascript client described in Project 1.

To complete this project, you will need database entities like the following:

- Product (description, image, pricing, shipping cost)
- User (email, password, username, purchase history, shipping address)
- Comments (product, user, rating, image(s), text)
- Cart (products, quantities, user)
- Order (recording of a sale)

You will test your project using PostMan to validate your endpoints behave appropriately in both success and failure cases. Provide captured test output as part of your assignment submission.

You should, in theory, be able to use the same PostMan tests for assignments 2-4.

Marks

Distribution of marks is as follows (see rubrics for more details) :

- Proper use of DevOps/Git: 10%
- Correct and complete SQLServer/EF6 implementation: 20%
- Correct and complete ASP.NETCore API endpoints HTTP methods (GET, PUT, POST, and DELETE): 40%
- Full suite of Postman tests: 20%

To best demonstrate your project in action, please create a short video of your application, demonstrating all the required and optional elements you have completed. The submission of a video is worth up to 10%. Include a database schema and the output of your PostMan test run in your Git repository to receive full credit.

If you do not contribute to the project as evidenced by Git repository commits, your mark will be reduced from the group's mark.