**ShopBridge**

**Steps to Run**

1. In appsettings.json

* Change Azure credentials and Database Connection String.

1. Run following commands in Terminal

* dotnet ef database update (Will migrate models into database tables)
* dotnet run (will build and run application)

1. APIs Documentation is provided in base Repo named **API\_Collection\_Documentation.json,** Users have to import json file as **Collection** in postman.

**Time Breakdown**

|  |  |
| --- | --- |
| Task | Time |
| Database Connection Setup | 15 min |
| Services for Product and Inventory | 80 min |
| Cache Implementation | 15 min |
| WebSocket Implementation | 25 min |
| APIs Testing | 15 min |

**Details of Implementation**

1. Product Service

This service consist various APIs which will be used for managing Inventory of E-Commerce application ShopBridge. Different end points are given for performing CRUD operation. For more details Postman collection’s documentation to be used.

1. Inventory Service

This service is used to perform multiple aggregation operations, Adding/Removing products can be used like when order is placed we have to reduce quantity of product from inventory.

For more details Postman collection’s documentation to be used.

1. Cache Implementation

Will be used to keep product in cache, to reduce database calls and increase efficiency. Can be implemented more further

1. WebSocket Implementation

To give out live updates when an Item is going to be out of stock soon for the shopper, or for the vendors if the quantity of item is changed due to it being sold or new stock is added.

1. API Testing

Using Postman

**Tech Stack**

* .Net Core 6
* SQL Server
* Entity Framework ORM
* VS Code
* Git