

Requirements

System requirements:

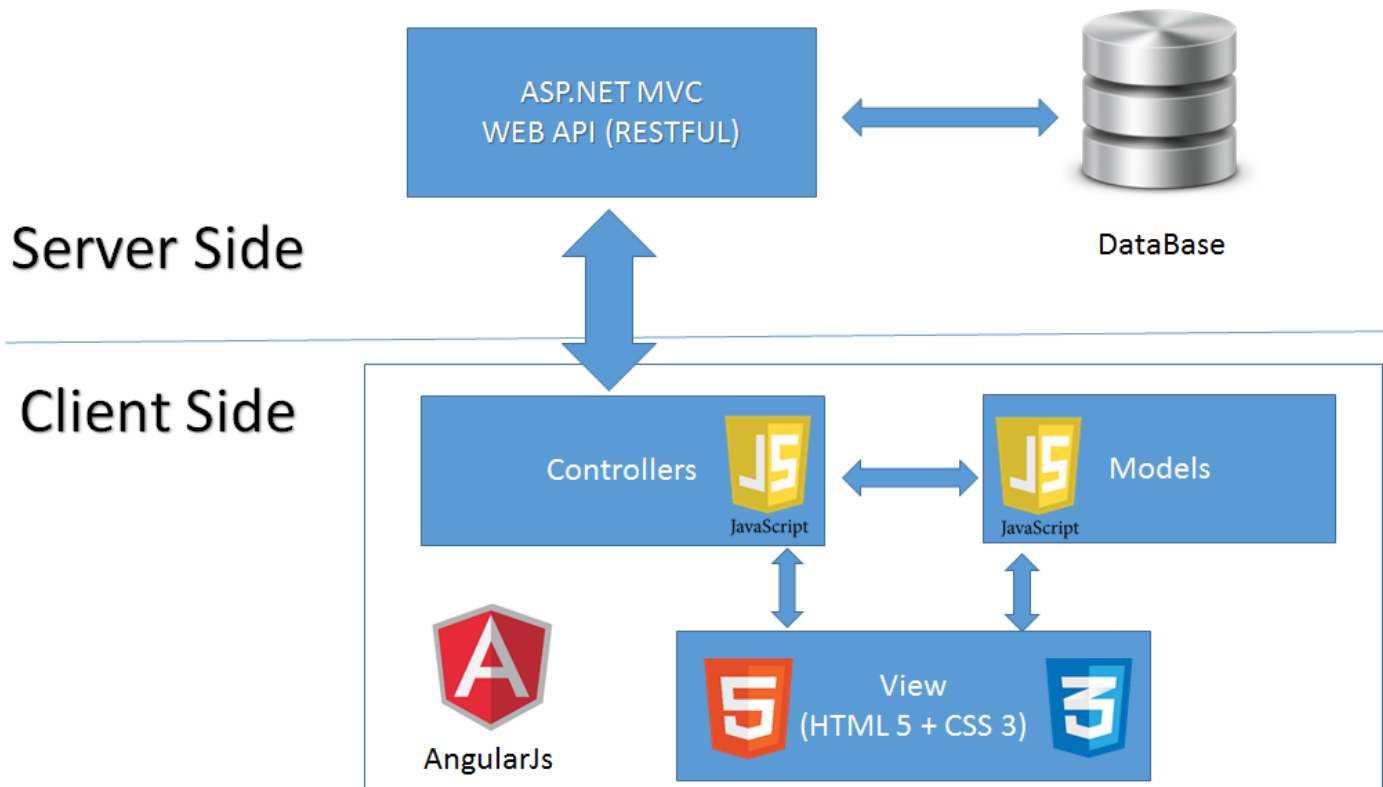
- PC Run as Local Server for Web Application.
- Access Point for Share Connection Between PCs.
- DBMS (MSSQL Server) For Transaction Management, Data Validation, Recovery Data.
- Dot Net SDK For Compilation Code.
- Dot Net Runtime for Deployment Application
- IIS Web Server Application.
- Auth Token for Authentication & Authorization.
- Identity User Manager to Manage Users Logins.
- Using Design Pattern MVC, Dependency.
- Add (Object Relational Mapper) Entity Framework Library for Connecting to DBMS.
- Add (Object Mapping Transformation) Auto Mapper Library.
- Using Design Pattern MVC, Dependency.
- Angular Framework, JavaScript, CSS, Html for Front-end (Single Web Page) Application.
- Npm(node Package Manager), Node Js and Typescript.
- Reactive Form Module for More Validation, HTTP Client Module for Dynamic Request.
- Auth JWT (Json Web Token) for decrypting roles, privilege, user Information.
- Font-awesome and Bootstraps.
- Web Browser For running Web Application.

System Functional:

- Create Entities And retrieve them on a specific time period with a time stamp of the update time.
- Create Responsive Design.
- Extra Functional:
 1. Login Page.
 2. Add Authentication.

System Analysis

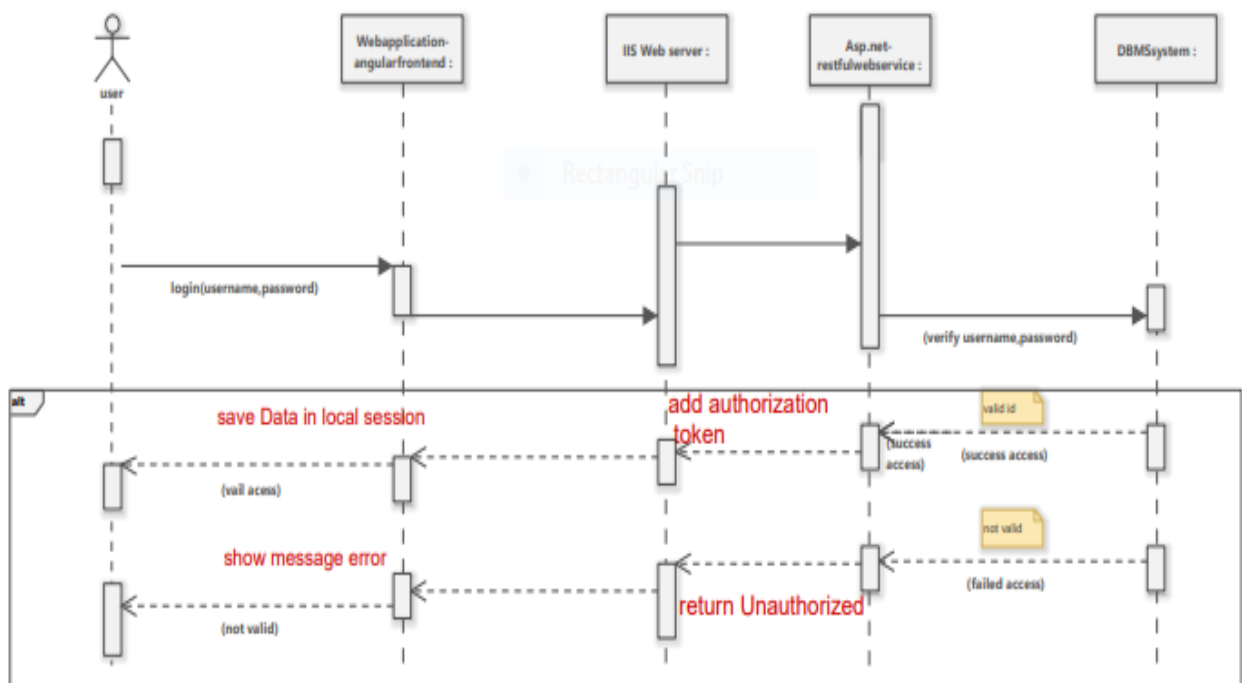
System Artichature



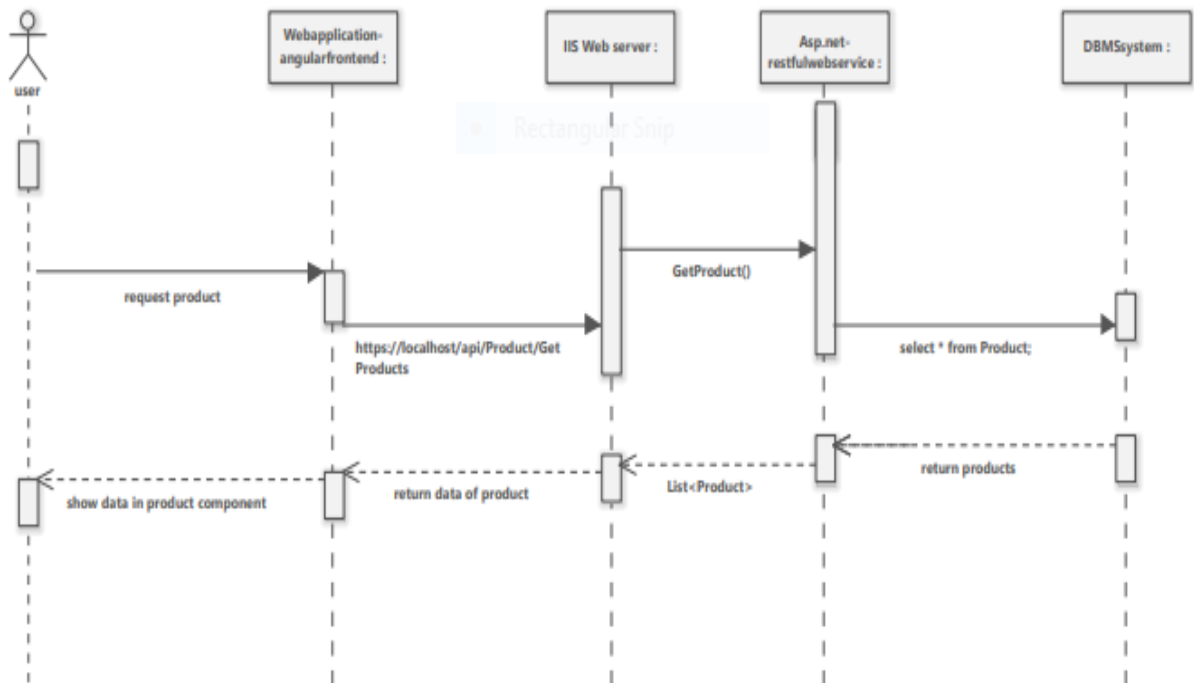
Sequence Diagram

Authentication & Authorization

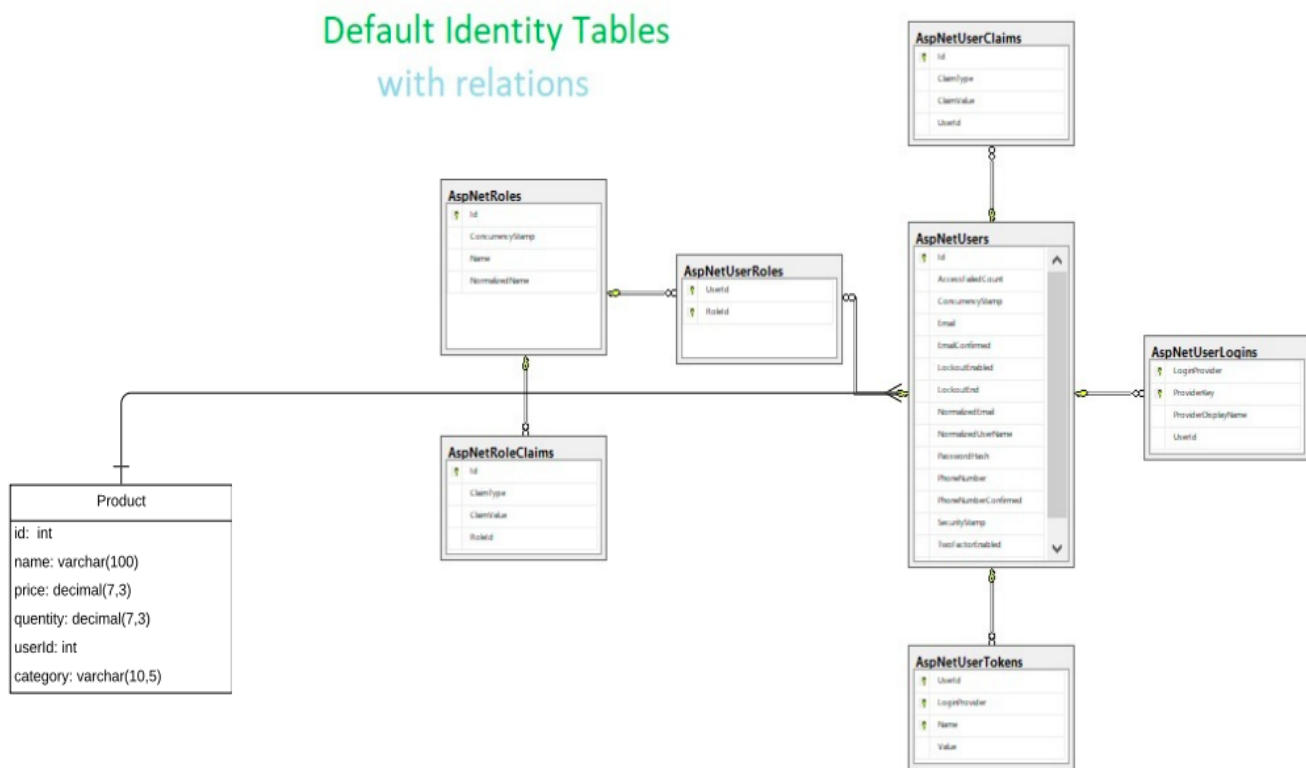
Sequence Diagram Authentication



Sequence Diagram For Product Table.



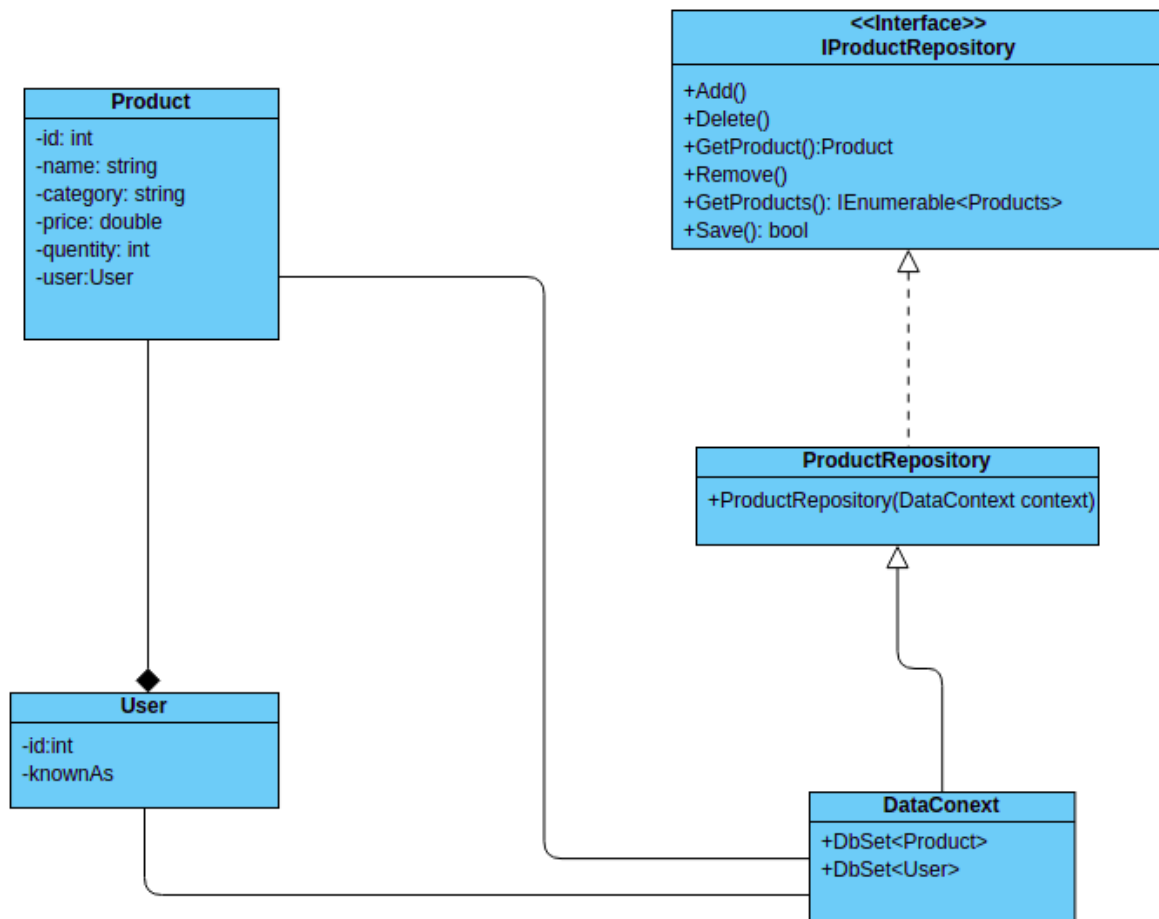
Data Base Model Diagram



Resource For Identity Asp.net:

[Microsoft Documentation](#) For

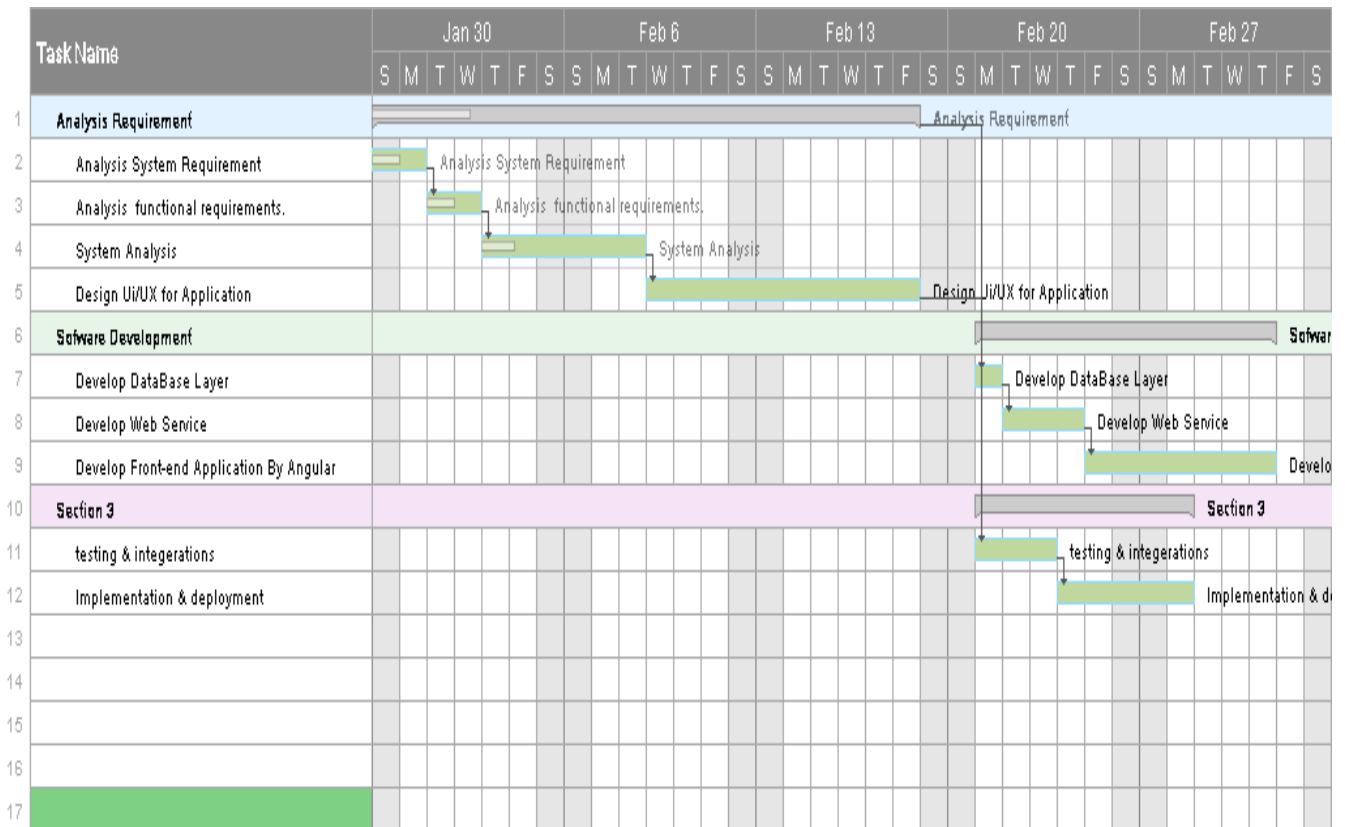
Class Diagram



For Information about User Manager, User Role, Asp.net Identity:

[Microsoft Identity](#)

TimeLine For Design



*Notation:

Schedule Time is Not Real and Simple Because Functional Requirements are Simple .

Finally Source Code: [Github](#)

Deployment

- Select Asp Dot New In Production Mode.
- Change Connection String for any Database you Want we suppose that

DBMS is MSSQL so:

```
Server=myServerName\myInstanceName; Database=myDataBase; User Id=myUsername; Password=myPassword;
```

- Deploy Application By Run: `dotnet publish -o ../projectPuplish`
- Run IIS if it Exsited or add it from add new Feature in Program and install Control Panel.
 - [IIs Adding Guides.](#)
- Add Application in IIs and select ip and port for data binding.
- Make firewall in-out bound for ip and port you specific.
- Copy projectPuplish and make Application site Navigate to it.
- Run sql script in sqlserver command by source :
`sqlcmd -S myServerName\myinstanceName -i C:\myScript.sql`
- Not run site Now Please open 'web.config' and if **AspNetCoreModule Exist,**
assume that it is The Specific Version You Want for latest Verion

It becomes AspNetCoreModuleV2

- then open CMD (Command Line) and run : `dotnet miza.api.dll` for assuming that configuration is done.
- Then close and Run it Again in Administration mode for restart iis BY
: > `iisreset`
- Then open browser For Specific <https://IP:port/login>
- If you want make DNS you can do it By
 - Open `C:/Windows/System32/drivers/etc/hosts`
 - Set Ip For IIS the Domain name you want please **Don't**

Begin it By www

Not Forget Open File By Note Bad in Administration Mode.

Restart Pc.

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