**LAB 7. Service Request Management**

1. **Enabling Redis Memory Caching**

**B1. Cài chocolate**

**Mở cmd với quyền admin**

**>** @"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"

>choco -v

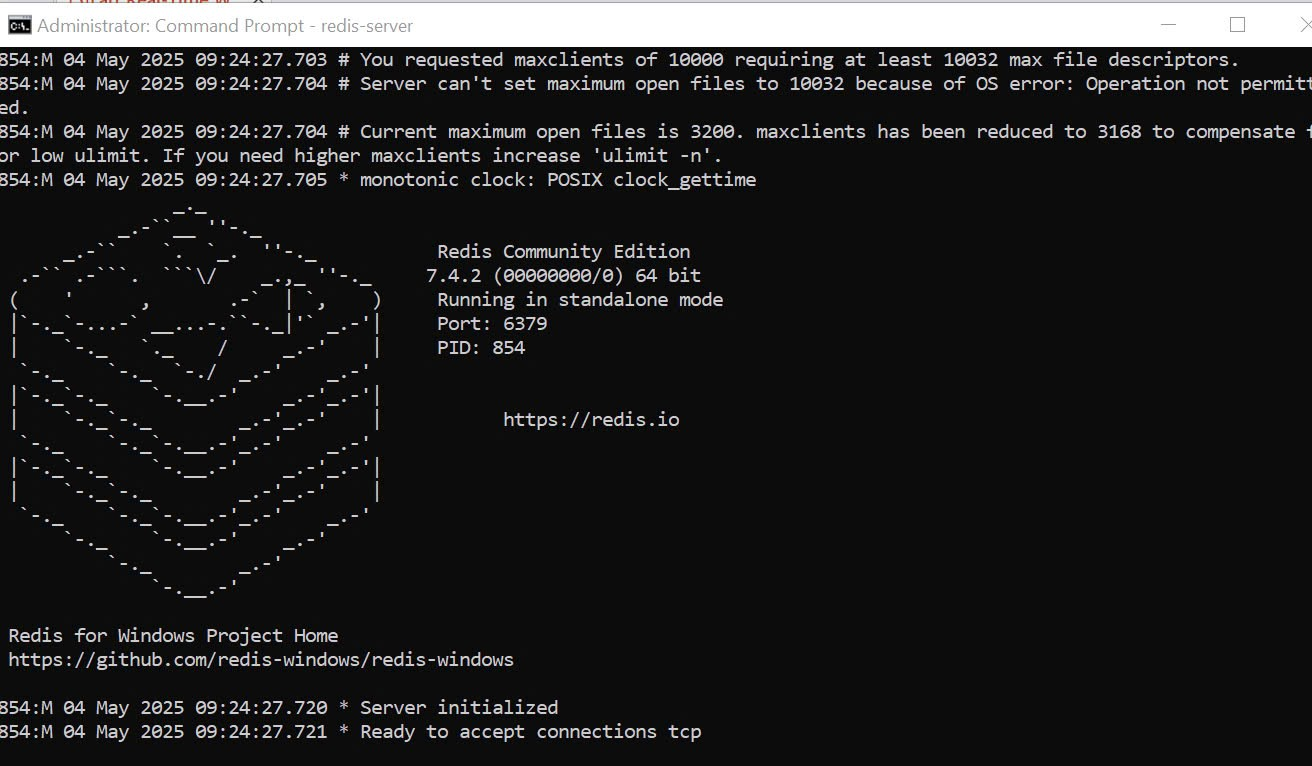
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**B2. Cài Redis**

**>** choco install redis-64

Run Redis

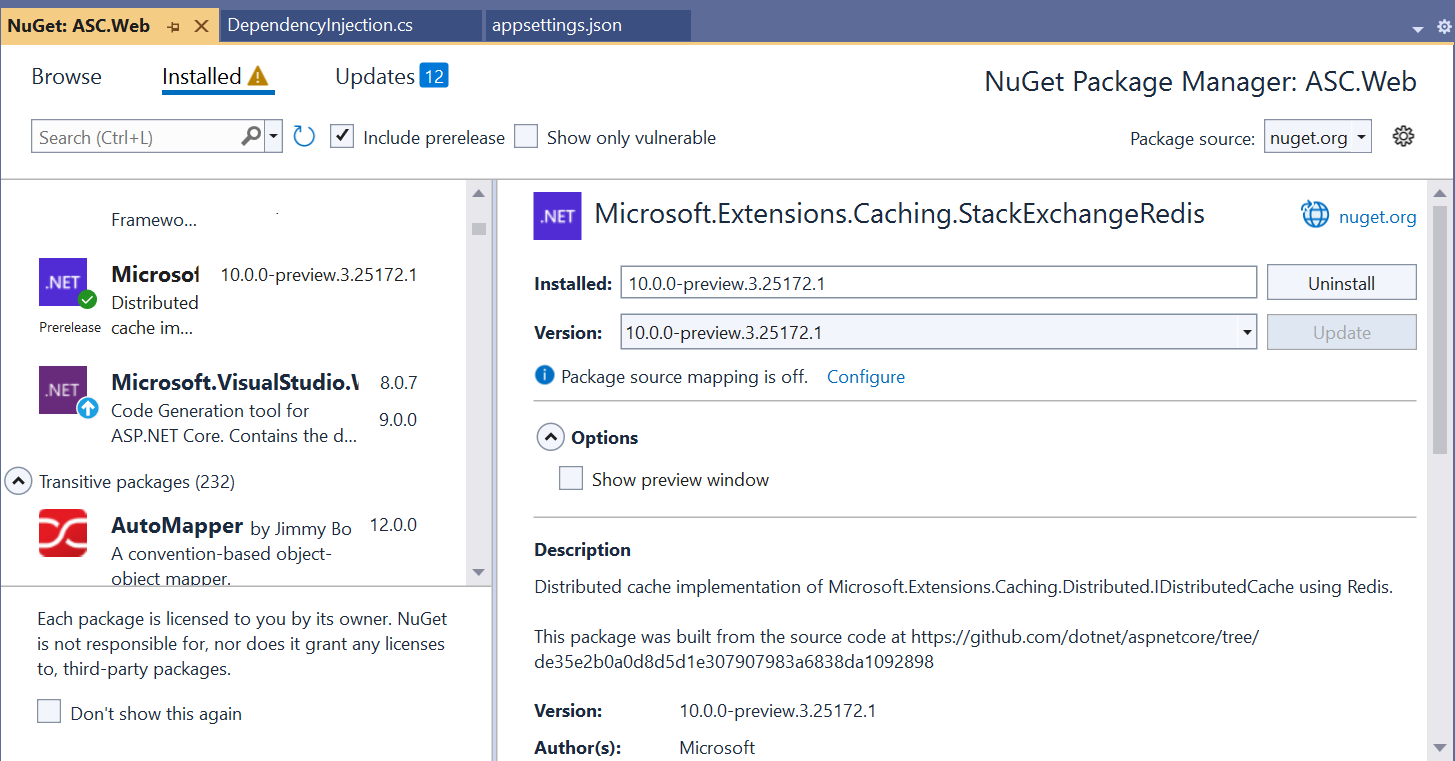
>redis-server



Chú ý port kết nối với redis là 6379 qua localhost

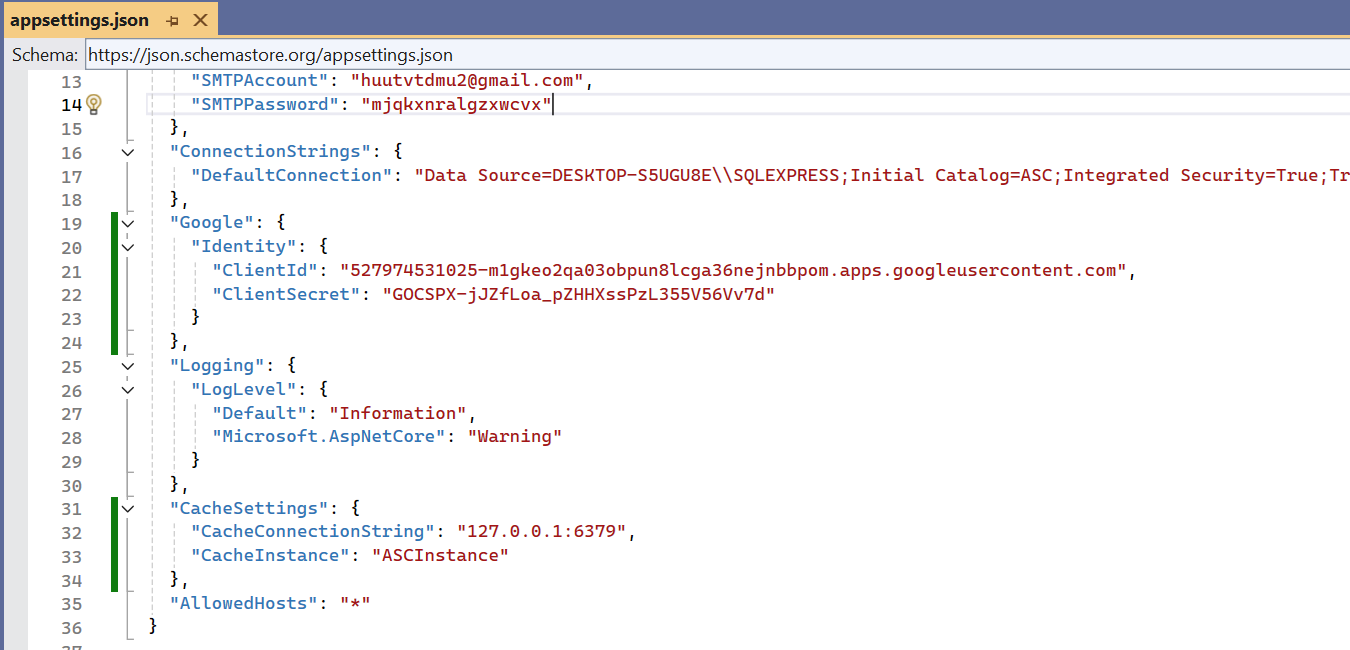
**B3. Cấu hình Cache với Redis**

**Mở nuget cài** Microsoft.Extensions.Caching.StackExchangeRedis trong tầng ASC.Web

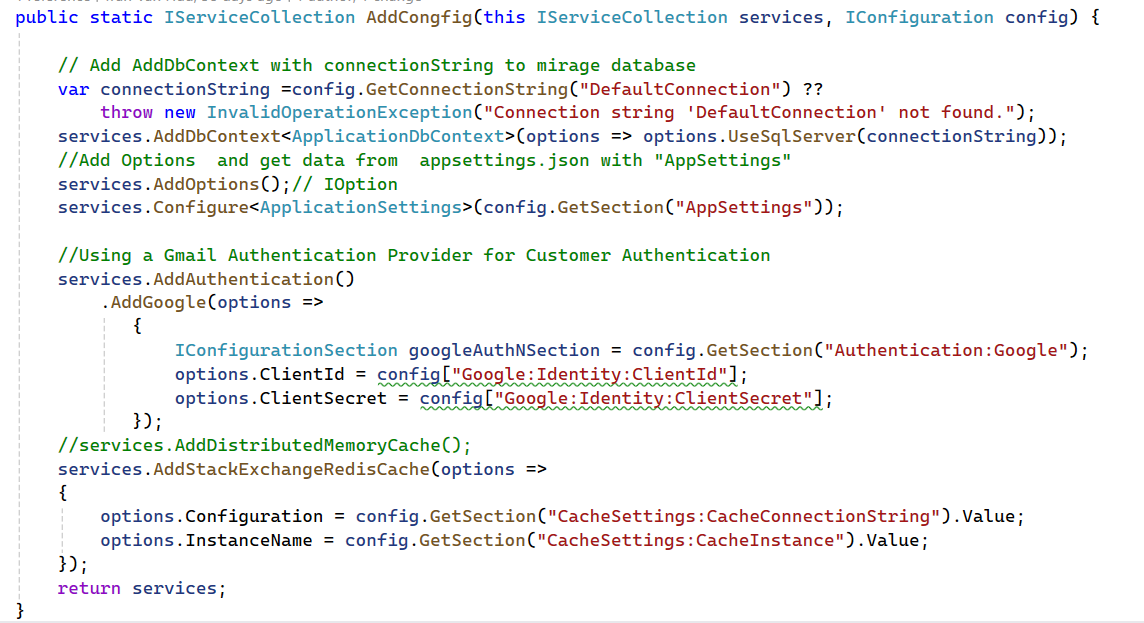
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**Cập nhật cấu hình hình kết nối với server redis**

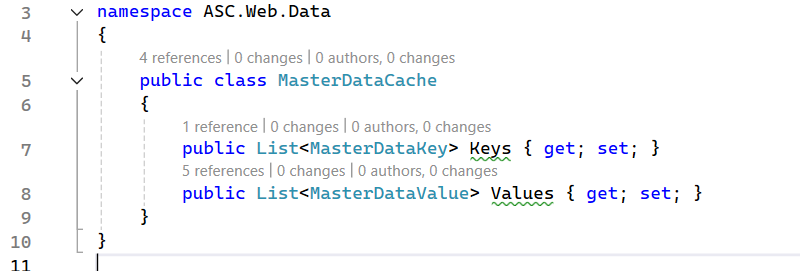
**ASC.Web/** **appsettings.json**

****

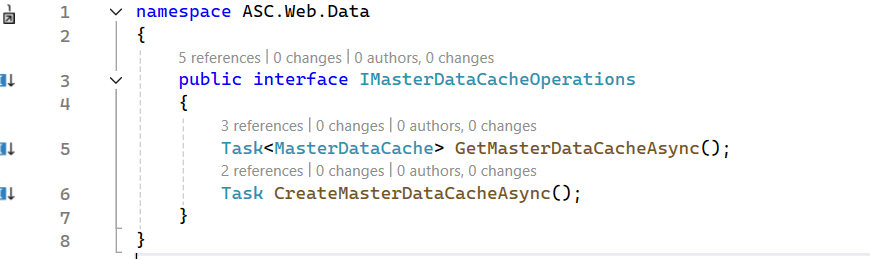
**Add DistributedRedisCache trong method AddCongfig thuộc lớp DependencyInjection**

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**Tạo model** MasterDataCache để lưu trữ MasterData trong bộ nhớ đêm redis

****

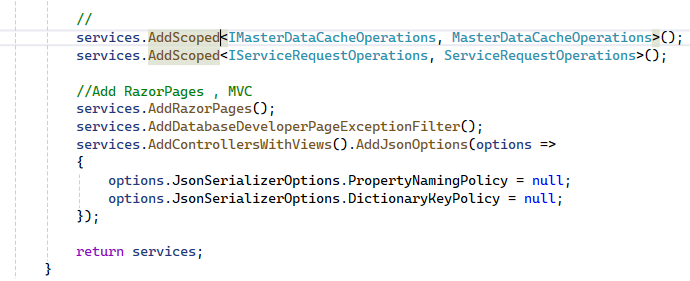
**Tạo intefarce IMasterDataCacheOperations.cs**

****

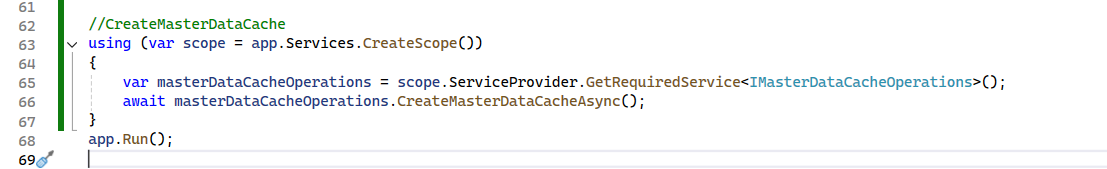
**Tạo class** MasterDataCacheOperations.cs

****

**Add service** MasterDataCacheOperations **trong method** AddMyDependencyGroup **thuộc lớp DependencyInjection**

****

**Cập class Program.cs create MasterDataCache**

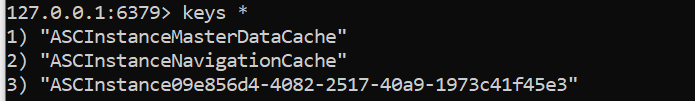
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**Kiểm tra kết nối lưu trữ bộ nhớ đệm trên redis**

**>redis-cli**

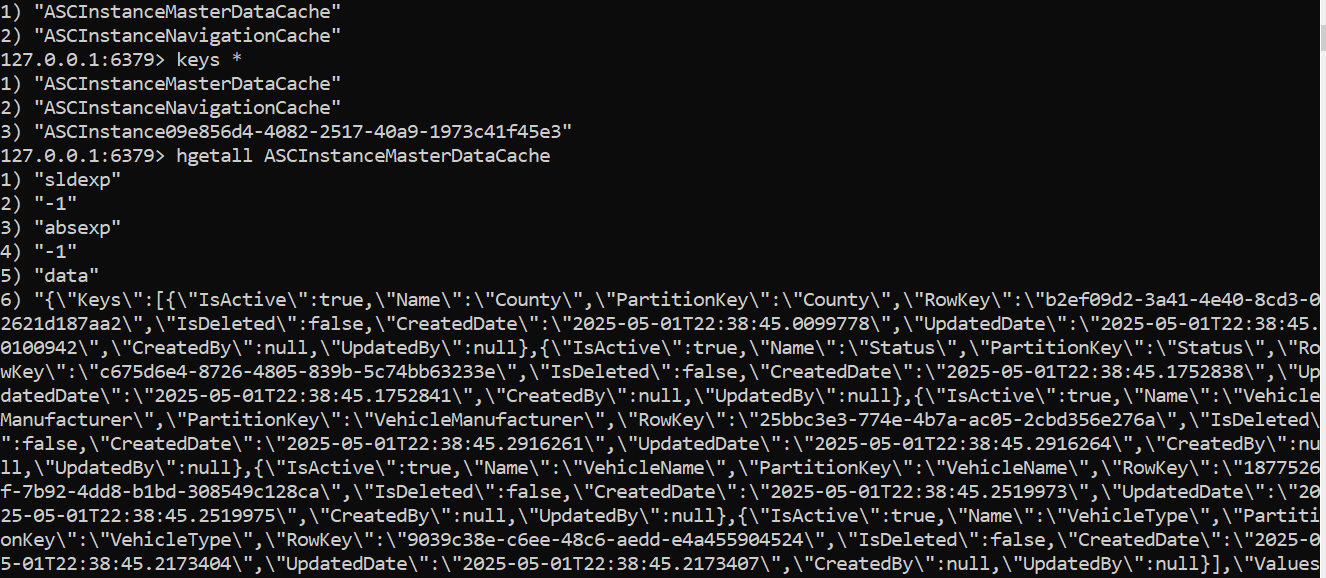
**Truy cập quyền admin -> Master Data -> Master Key**

**>** **keys \***

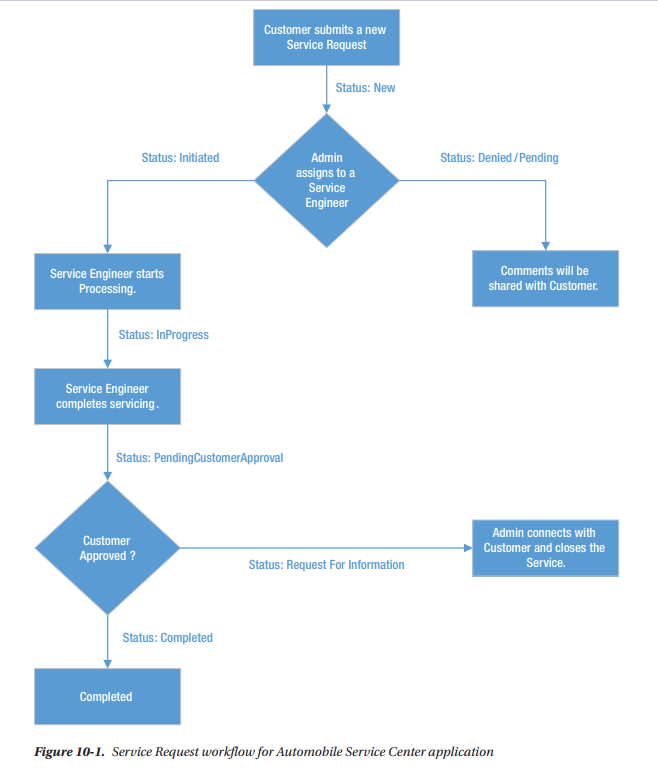
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**Xem bộ nhớ đệm tương ứng**

**> hgetall ASCInstanceMasterDataCache**

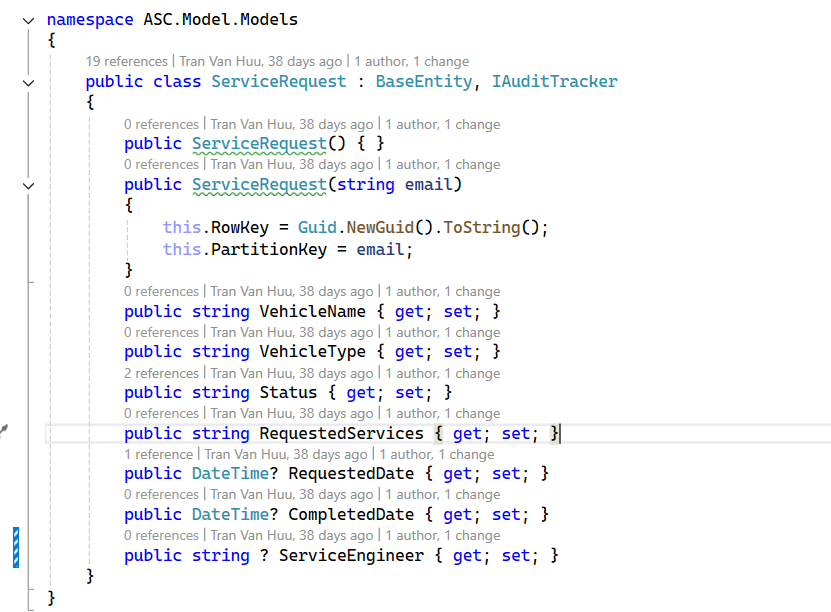
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1. **Service Request Workflow**

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1. **New Service Request (Role Customer)**

**B1. Tạo mới model** ServiceRequest **trong ASC.Model.Models**

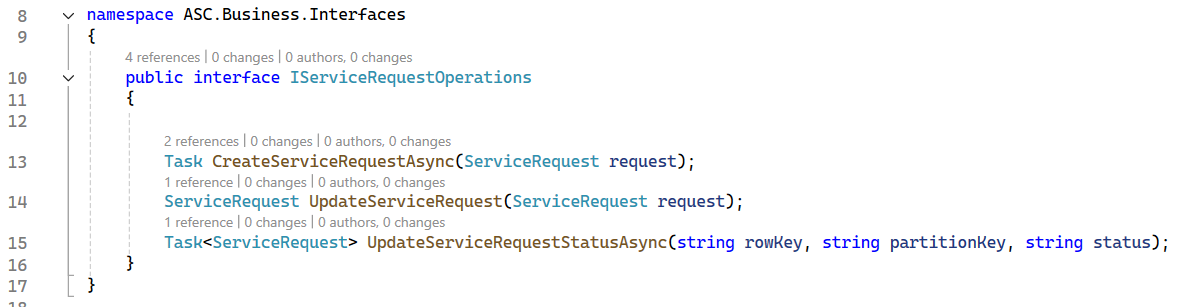
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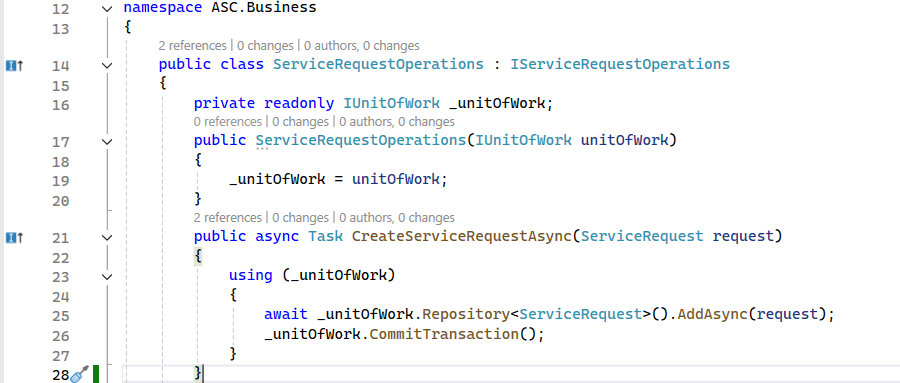
Mở Package Manager Console

PM> Add-Migration addServiceRequest

PM> Update-Database –Verbose

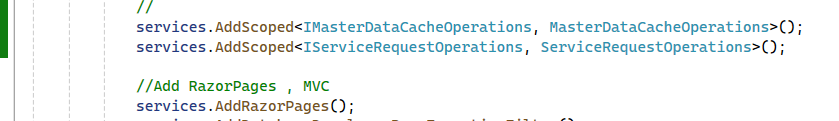
**B2. Tạo interface IserviceRequestOperations và class ServiceRequestOperations trong ASC.Business**

****



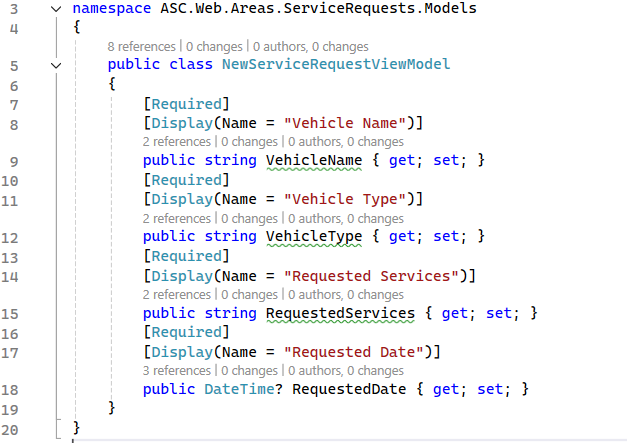


Inject **ServiceRequestOperations vào ASC.Web => Cập nhật method** AddMyDependencyGroup trong class DependencyInjection.cs

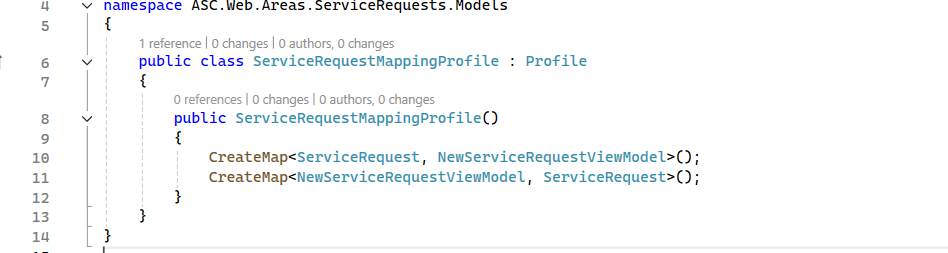


**B3. Xử lý User Case New Service Request (Role Customer) trong ASC.Web.** **Areas.** **ServiceRequests**

**Tạo Model NewServiceRequestViewModel.cs**

****

**Tạo Model** ServiceRequestMappingProfile.cs

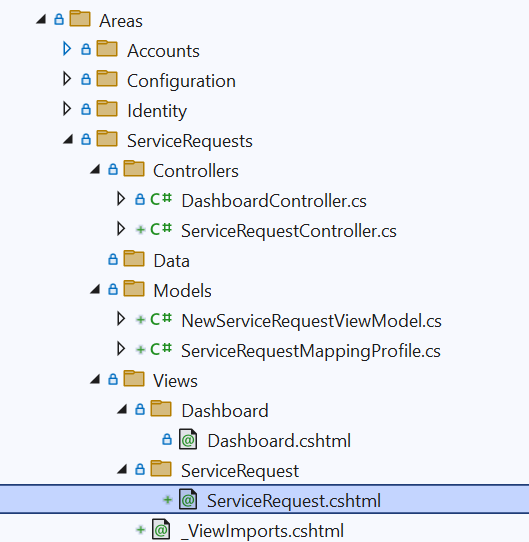
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**Tạo controller ServiceRequestController.cs**

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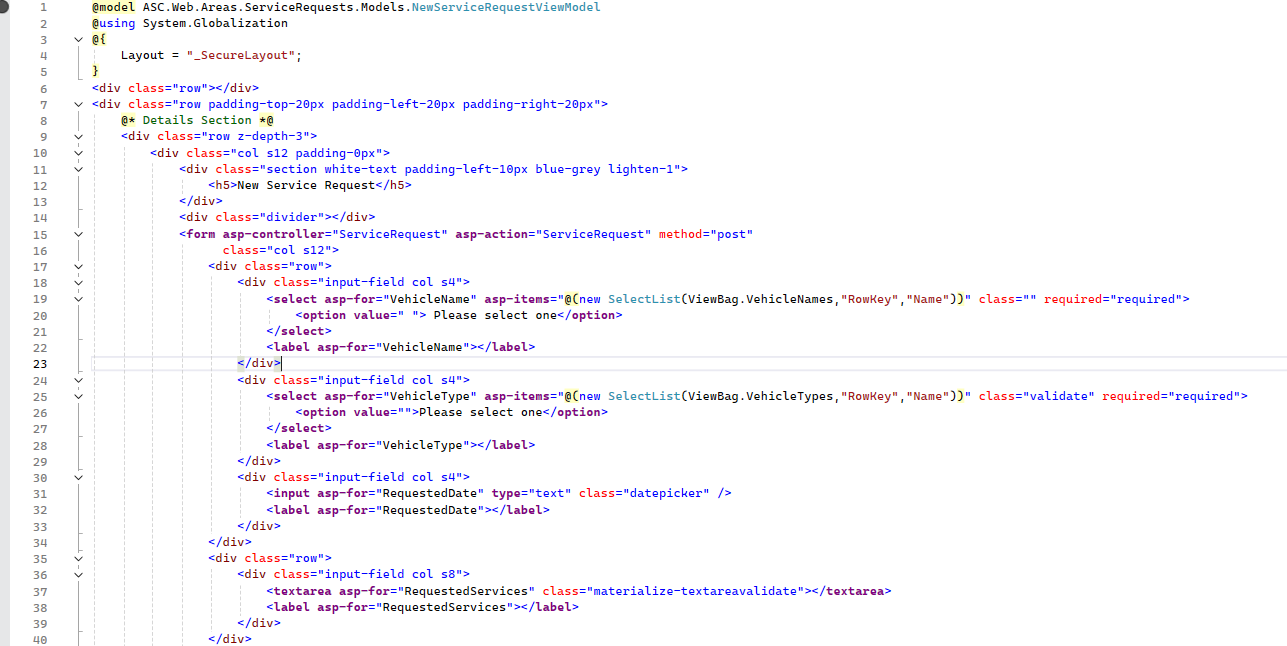
**Tạo view cho action**

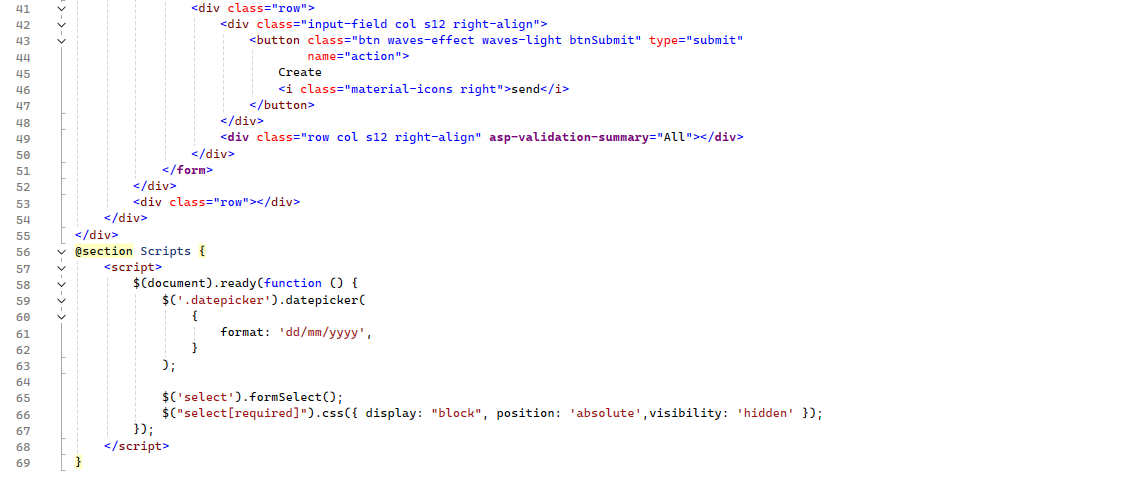
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**Tạo layout ASC.Web.Areas/ServiceRequests/View/** **\_ViewImports.cshtml**

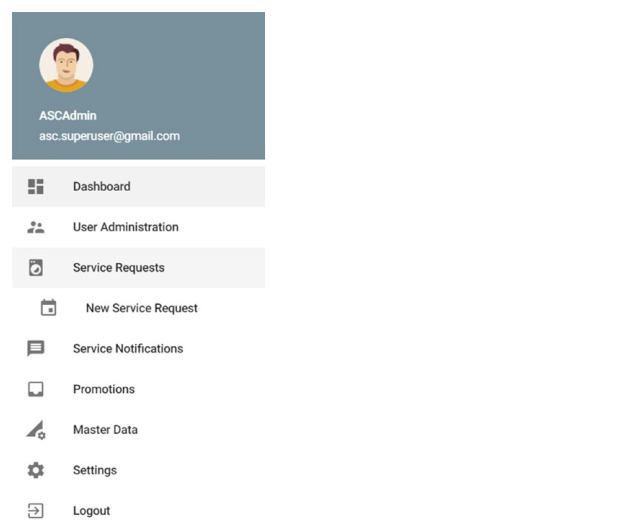
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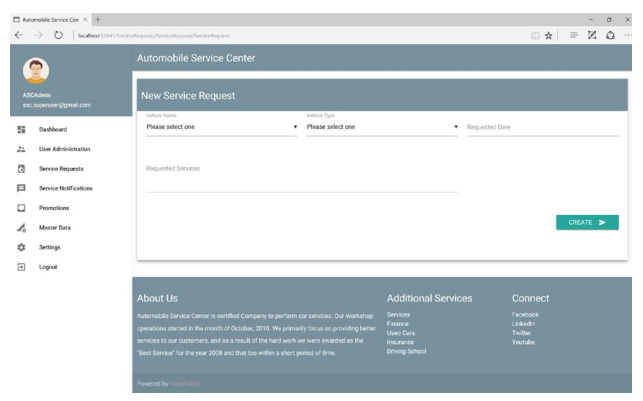
**Tạo view ServiceRequest.cshtml**

****

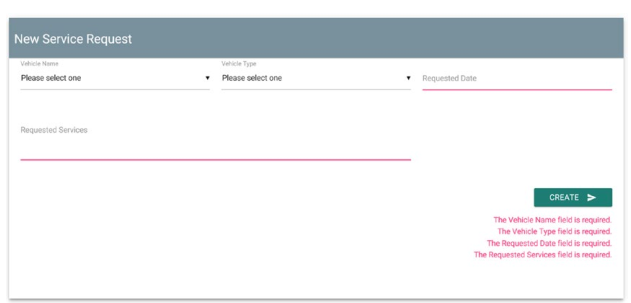
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**Thực hiện login với Role Customer -> Service Requests -> New Service Request**

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**Trường hợp dữ liệu không hợp lệ**

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**Khi thêm mới thành công check CSDL**

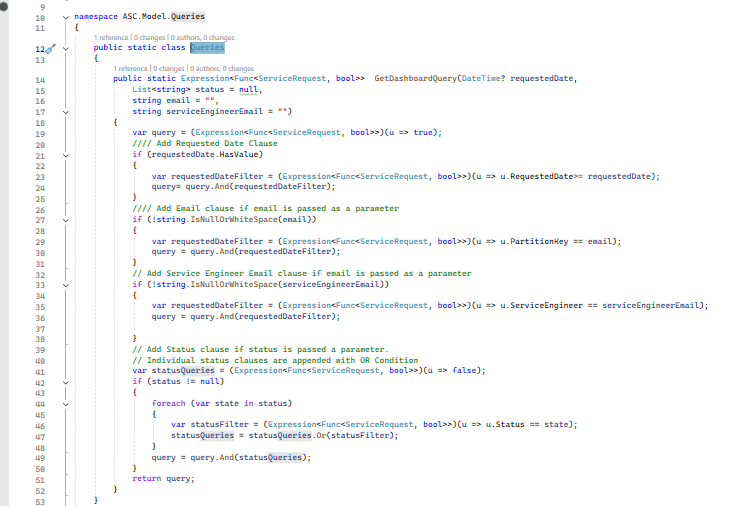
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1. **Dashboard Service Request**

* **Tạo class PredicateBuilder.cs để tạo các biểu thức lọc với AND hoặc OR của LINQ**

****

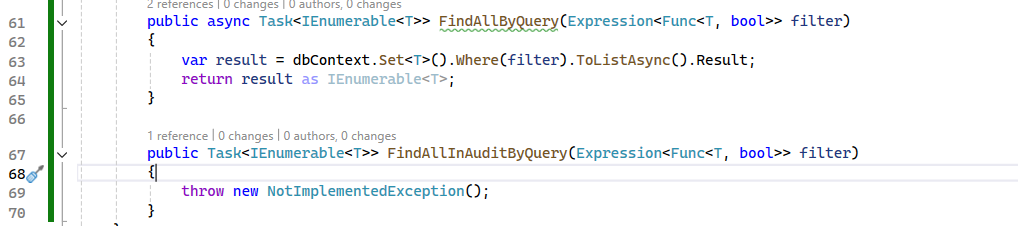
* **Tạo class** Queries.cs **để tạo biểu thức truy vấn LINQ về các yêu cầu dịch vụ cho các phân quyền khác nhau ( Admin, Service Engerneering, Customer)**

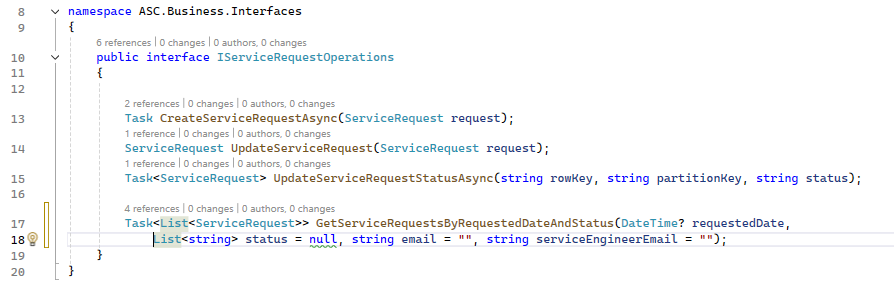
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**Cập nhật** IRepository.cs

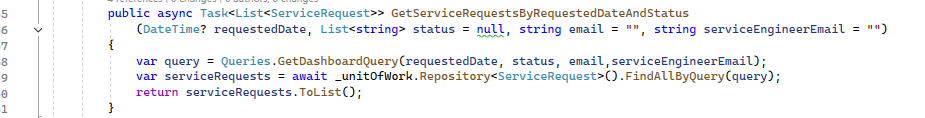
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**Cập nhật** Repository.cs

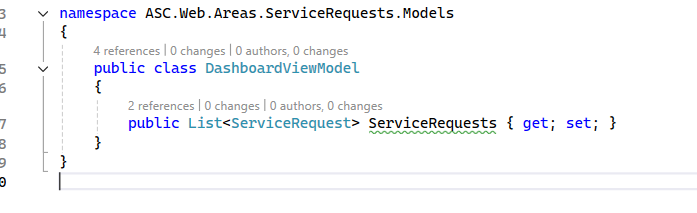


**Cập nhật interface** IServiceRequestOperations.cs ****

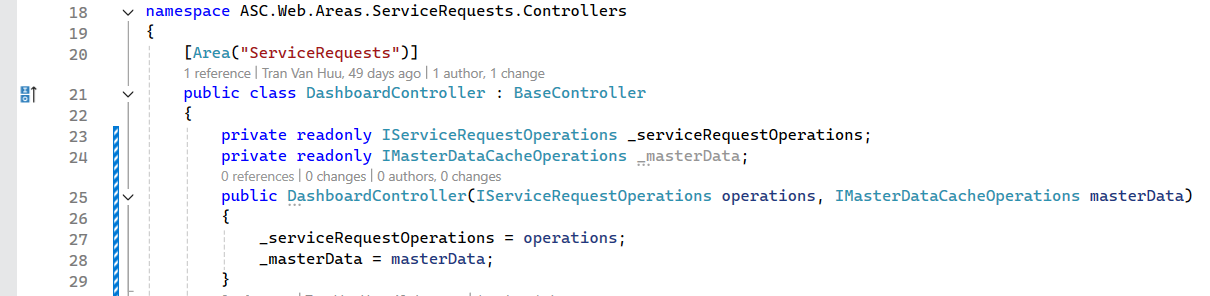
**Cập nhật class ServiceRequestOperations.cs override phương thức**



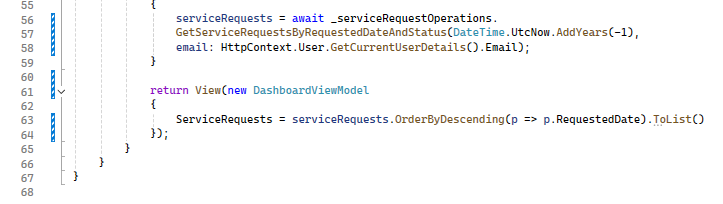
**Tạo model cho view DashboardViewModel.cs**

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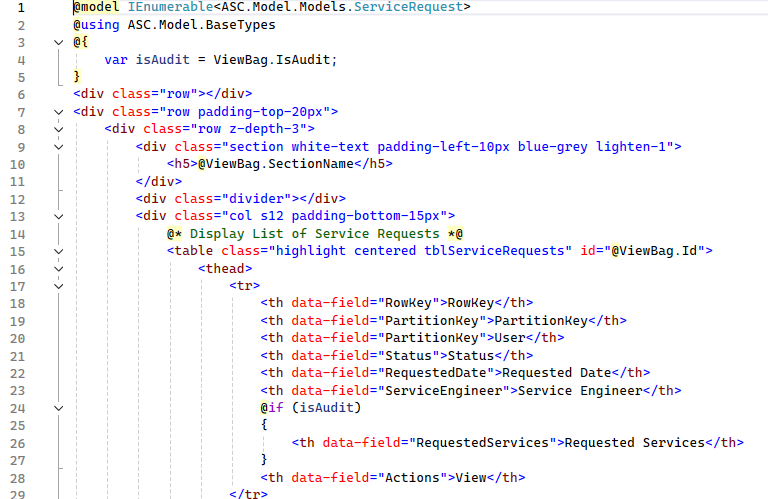
**Cập nhật DashboardController trong Area ServiceRequests**

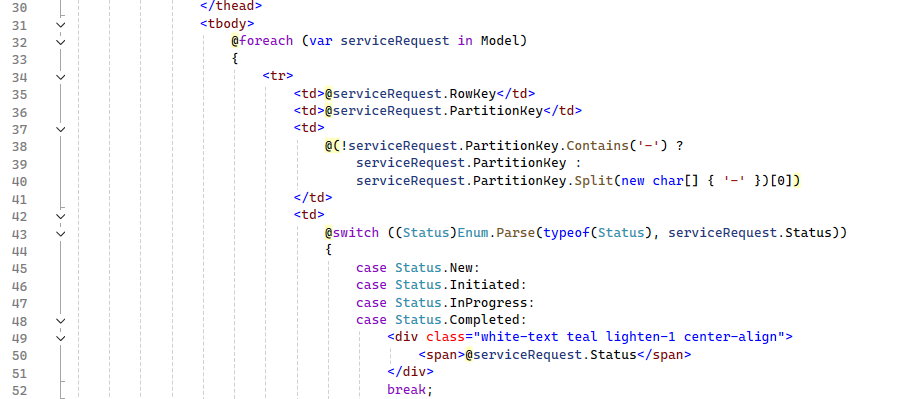
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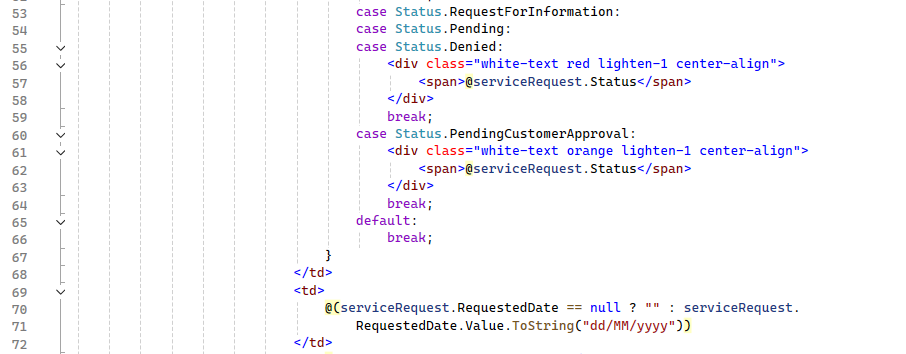
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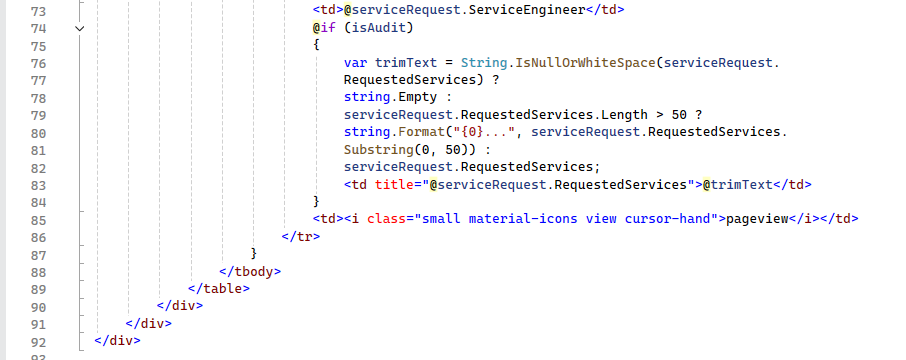
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**Tạo (Layout) Partial view \Areas\ServiceRequest\Views\Shared\\_ServiceRequestGrid.cshtml**

****

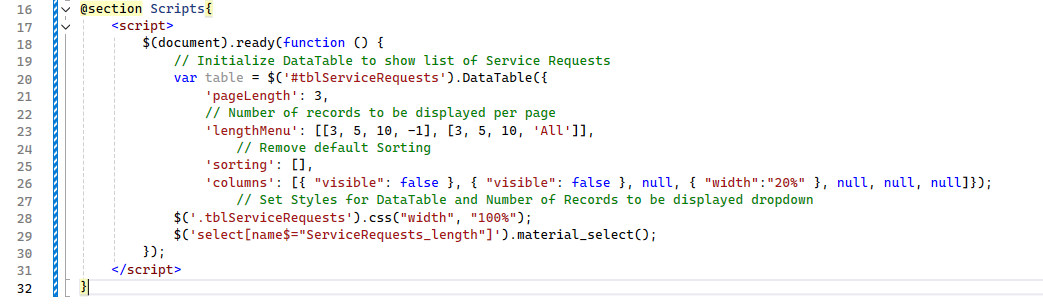
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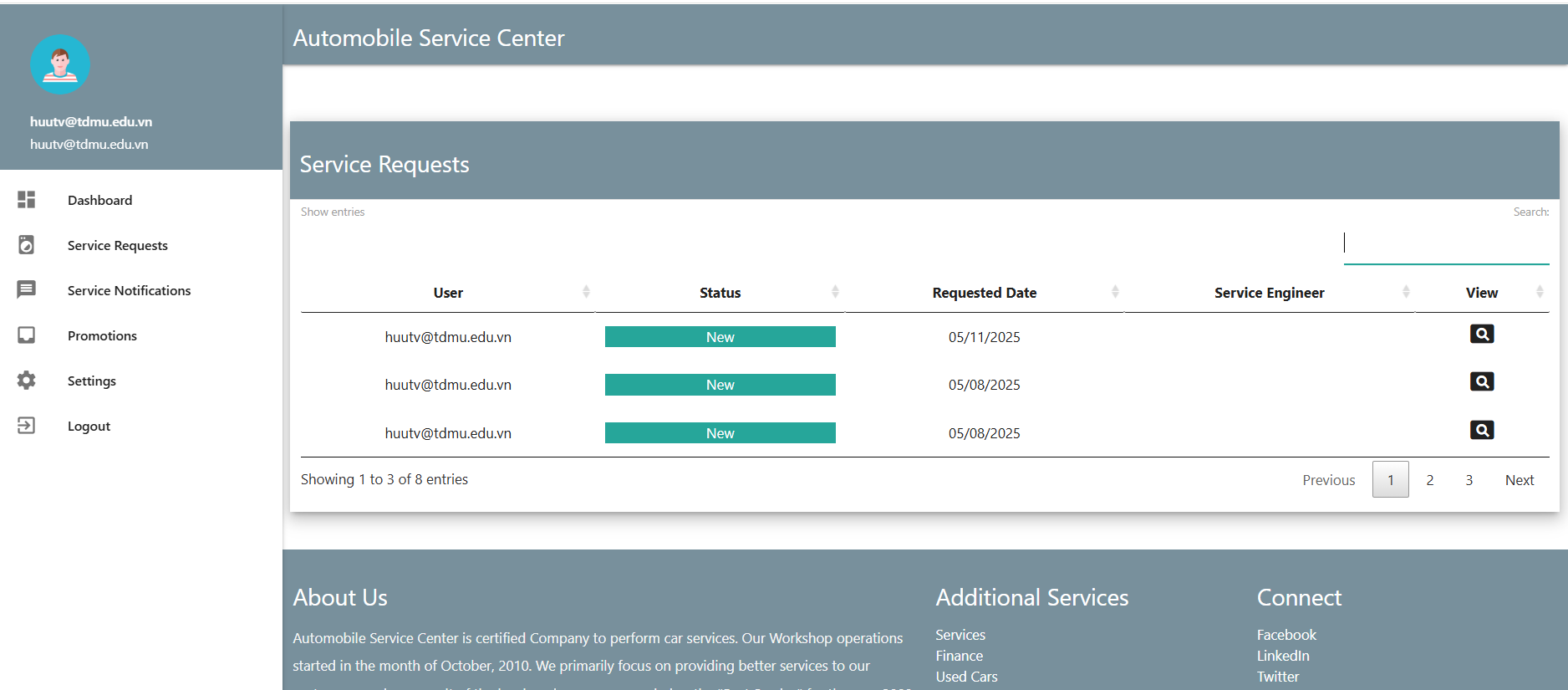
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**Cập nhật view Dashboard cho action Dashboard**

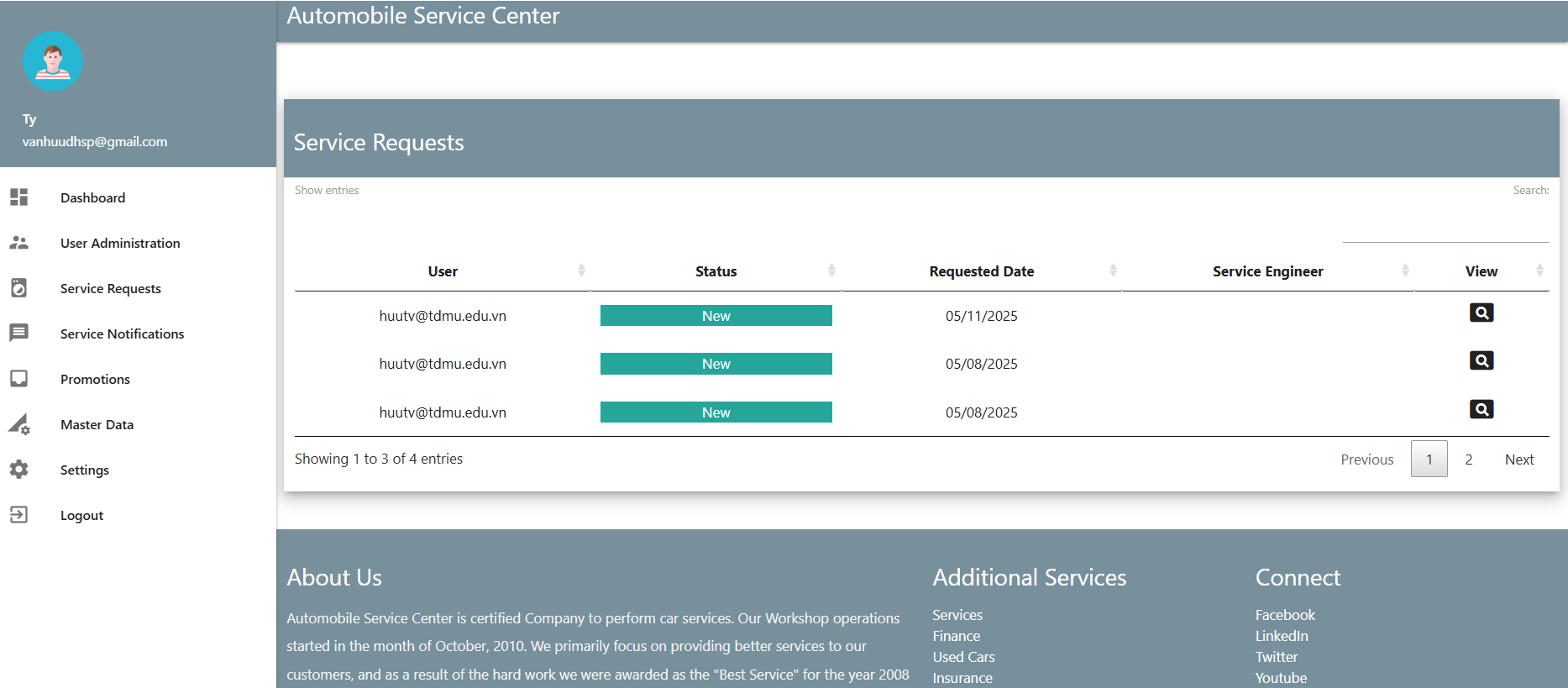
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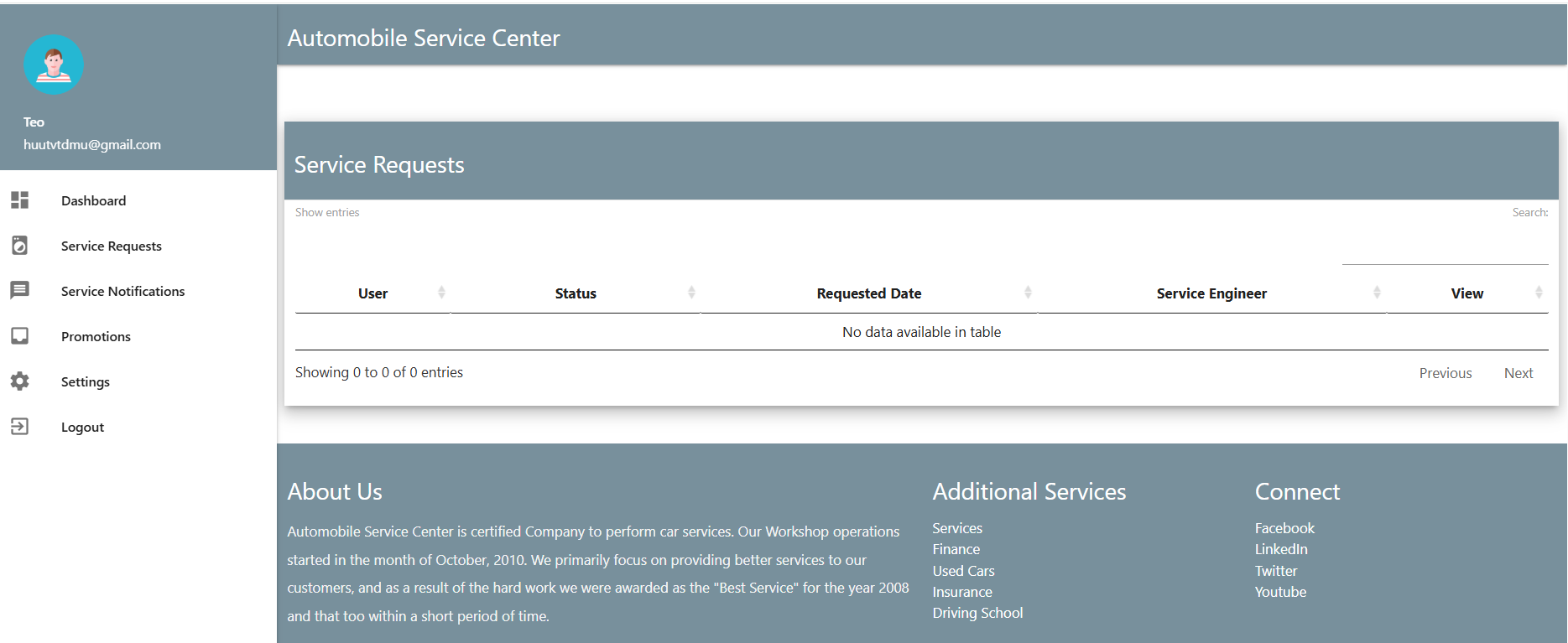
**Kết quả chạy role (Customer)**

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**Kết quả chạy role (Admin)**

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**Kết quả chạy role (Engerneering)**

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1. **Dashboard Service Request (Role Engineer)**