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Namespace MMI

Classes

Persistent

This whole class just exists, to exist - It could also be made into a Singleton Service and injected into The main application. However, laziness is a virtue.

The objects are instantiated so that they are persistent across the application, and are primarily used for transferring data between the various modules.

Class Persistent

This whole class just exists, to exist - It could also be made into a Singleton Service and injected into The main application. However, laziness is a virtue.

The objects are instantiated so that they are persistent across the application, and are primarily used for transferring data between the various modules.

Inheritance

System.Object

Persistent

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI

Assembly: MMI.dll

Syntax

```
public class Persistent
```

Fields

CustomerTable

A persistent implementation of a table, that is used to store information about the current customer that is being generated.

Declaration

```
public static Table CustomerTable
```

Field Value

TYPE	DESCRIPTION
Spectre.Console.Table	

QuotationTable

A persistent implementation of a table, that is used to store information about the current quotation that is being generated.

Declaration

```
public static Table QuotationTable
```

Field Value

TYPE	DESCRIPTION
Spectre.Console.Table	

Namespace MMI.Models

Classes

Customer

The Model for a customer.

Quotation

The Quotation Model, which is used to hold the Quotation data. Can also be used to represent a Policy.

ServiceResponse<T>

A Generic Wrapper for in-taking information from the API.

Class Customer

The Model for a customer.

Inheritance

System.Object

Customer

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Models

Assembly: MMI.dll

Syntax

```
public class Customer
```

Properties

County

The County of the customers address.

Declaration

```
public string County { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Eircode

The EirCode of the customer's address.

Declaration

```
public string Eircode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirstName

The First Name of the customer.

Declaration

```
public string FirstName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Id

The ID of the customer.

Declaration

```
public int Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

PhoneNumber

The Phone Number of the customer.

Declaration

```
public string PhoneNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Street

The Street of the customer's address.

Declaration

```
public string Street { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Surname

The Last Name of the customer.

Declaration

```
public string Surname { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Quotation

The Quotation Model, which is used to hold the Quotation data. Can also be used to represent a Policy.

Inheritance

System.Object

Quotation

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Models
Assembly: MMI.dll

Syntax

```
public class Quotation
```

Properties

Age

The Age Criteria

Declaration

```
public int Age { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

County

The County Criteria

Declaration

```
public string County { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Customer

The customer that the quotation is belongs to

Declaration

```
public Customer Customer { get; set; }
```

Property Value

TYPE	DESCRIPTION
Customer	

Emissions

The Emissions Class Criteria

Declaration

```
public string Emissions { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Id

The Quotation ID.

Declaration

```
public int Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

InsuranceCategory

The Insurance Category Criteria

Declaration

```
public string InsuranceCategory { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IsPolicy

Represents if the quotation is a policy or not

Declaration

```
public bool IsPolicy { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Model

The Vehicle Model Criteria

Declaration

```
public string Model { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Sex

The Sex Criteria

Declaration

```
public string Sex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TotalCost

The total quotation cost

Declaration

```
public int TotalCost { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ValidUntil

The date that the quotation is valid until

Declaration

```
public DateTime ValidUntil { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Methods

QuotationTotalCost()

Calculates the total cost of the quotation.

Declaration

```
public void QuotationTotalCost()
```

Declaration

```
public void QuotationTotalCost()
```

Class ServiceResponse<T>

A Generic Wrapper for in-taking information from the API.

Inheritance

System.Object

ServiceResponse<T>

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Models

Assembly: MMI.dll

Syntax

```
public class ServiceResponse<T>
```

Type Parameters

NAME	DESCRIPTION
T	A Generic representing the object assigned to it.

Properties

Data

A generic for the object assigned to it.

Declaration

```
public T Data { get; set; }
```

Property Value

TYPE	DESCRIPTION
T	

Message

The message returned from the API.

Declaration

```
public string Message { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Success

The success summary of the request.

Declaration

```
public bool Success { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Success

The success summary of the request.

Declaration

```
public bool Success { get; set; }
```

Namespace MMI.Services

Classes

GreetingService

Handles running the application.

Interfaces

IGreetingService

The interface for the service that manages the application's main window.

Class GreetingService

Handles running the application.

Inheritance

System.Object
GreetingService

Implements

IGreetingService

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: MMI.Services
Assembly: MMI.dll

Syntax

```
public class GreetingService : IGreetingService
```

Constructors

GreetingService(IMenuService, IDisplayService)

Declaration

```
public GreetingService(IMenuService menuService, IDisplayService displayService)
```

Parameters

TYPE	NAME	DESCRIPTION
IMenuService	menuService	
IDisplayService	displayService	

Methods

Run()

Runs on startup - Is primary entry point outside of Main();

Declaration

```
public void Run()
```

Implements

IGreetingService

Interface IGreetingService

The interface for the service that manages the application's main window.

Namespace: MMI.Services
Assembly: MMI.dll

Syntax

```
public interface IGreetingService
```

Methods

Run()

Declaration

```
void Run()
```

Namespace MMI.Services.DisplayService

Classes

DisplayService

The implementation class of the IDisplayService interface.

Interfaces

IDisplayService

The interface for the display service.

Class DisplayService

The implementation class of the IDisplayService interface.

Inheritance

System.Object

DisplayService

Implements

IDisplayService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Services.DisplayService

Assembly: MMI.dll

Syntax

```
public class DisplayService : IDisplayService
```

Constructors

DisplayService(ILogger<DisplayService>)

The constructor of the DisplayService class.

Declaration

```
public DisplayService(ILogger<DisplayService> logger)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger<DisplayService>	logger	The Logger DI Container

Methods

CustomerTable(Table)

Sets up the Customer Table with the required rows and columns.

Declaration

```
public void CustomerTable(Table table)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	The table to be updated.

DisplayExpiringReport(Table, List<Quotation>)

Displays a table showing a list of expiring Quotation objects.

Declaration

```
public Table DisplayExpiringReport(Table table, List<Quotation> quotations)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	The table to be updated
System.Collections.Generic.List<Quotation>	quotations	A System.Collections.Generic.List<T> of Quotation

Returns

TYPE	DESCRIPTION
Spectre.Console.Table	An updated Spectre.Console.Table object that presents Quotation or Customer objects.

DisplayQuotation(Table, Quotation)

Sets up a table to handle the display of Quotation data and Customer data.

Declaration

```
public Table DisplayQuotation(Table table, Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	The table to be modified
Quotation	quotation	The Quotation object to update the table with.

Returns

TYPE	DESCRIPTION
Spectre.Console.Table	An updated Spectre.Console.Table

LoadingPrompt()

Prints a RuleRedLeft(String) to the Console to inform the user that the application is loading.

Declaration

```
public void LoadingPrompt()
```

MenuFiglet()

Displays the Figlet text.

Declaration

```
public void MenuFiglet()
```

QuotationTableClear()

Removes all rows from the Quotation datatable.

Declaration

```
public void QuotationTableClear()
```

RenderCustomerTable()

Renders the Customer datatable to the console.

Declaration

```
public void RenderCustomerTable()
```

RenderExpiringTable(List<Quotation>)

Renders a Spectre.Console.Table which presents a System.Collections.Generic.List<T> of expiring Quotation objects.

Declaration

```
public void RenderExpiringTable(List<Quotation> quotations)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Quotation>	quotations	A System.Collections.Generic.List<T> of Quotations

RenderQuotationCriteriaTable()

Renders the Quotation datatable to the console.

Declaration

```
public void RenderQuotationCriteriaTable()
```

RenderQuotationTable(Quotation)

Renders the Quotation Spectre.Console.Table object to the Console.

Declaration

```
public void RenderQuotationTable(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

RuleGreenCentre(String)

Prints a green centre aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleGreenCentre(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

RuleGreenLeft(String)

Prints green a left aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleGreenLeft(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

RuleGreenRight(String)

Prints a green right aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleGreenRight(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

RuleRedCentre(String)

Prints a red centre aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleRedCentre(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

RuleRedLeft(String)

Prints a red left aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleRedLeft(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

RuleRedRight(String)

Prints a red right aligned System.String, using a Line Spectre.Console.Rule to the Console.

Declaration

```
public void RuleRedRight(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	The System.String to be printed in the line.

TableInit(Table)

Sets up a table to handle the display of Quotation data.

Declaration

```
public void TableInit(Table table)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	A table for quotation data

UpdateCustomerTableCells(Int32, String)

Updates a cell in the Customer datatable.

Declaration

```
public void UpdateCustomerTableCells(int row, string menuItem)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	row	An int representing the row on the table, starting at 0.
System.String	menuItem	The value of the cell to be updated with.

UpdateQuotationTableCells(Int32, String, Quotation)

Updates a cell in the Quotation datatable.

Declaration

```
public void UpdateQuotationTableCells(int row, string menuItem, Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	row	An int representing the row on the table, starting at 0.
System.String	menuItem	The value for the cell to be updated with.
Quotation	quotation	The quotation to retrieve the current total cost from

Implements

IDisplayService

Interface IDisplayService

The interface for the display service.

Syntax

```
public interface IDisplayService
```

Methods

CustomerTable(Table)

Declaration

```
void CustomerTable(Table table)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	

DisplayExpiringReport(Table, List<Quotation>)

Declaration

```
Table DisplayExpiringReport(Table table, List<Quotation> quotations)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	
System.Collections.Generic.List<Quotation>	quotations	

Returns

TYPE	DESCRIPTION
Spectre.Console.Table	

DisplayQuotation(Table, Quotation)

Declaration

```
Table DisplayQuotation(Table table, Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	
Quotation	quotation	

Returns

TYPE	DESCRIPTION
Spectre.Console.Table	

LoadingPrompt()

Declaration

```
void LoadingPrompt()
```

MenuFiglet()

Declaration

```
void MenuFiglet()
```

QuotationTableClear()

Declaration

```
void QuotationTableClear()
```

RenderCustomerTable()

Declaration

```
void RenderCustomerTable()
```

RenderExpiringTable(List<Quotation>)

Declaration

```
void RenderExpiringTable(List<Quotation> quotations)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Quotation>	quotations	

RenderQuotationCriteriaTable()

Declaration

```
void RenderQuotationCriteriaTable()
```

RenderQuotationTable(Quotation)

Declaration

```
void RenderQuotationTable(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

RuleGreenCentre(String)

Declaration

```
void RuleGreenCentre(string text)
```

TYPE	NAME	DESCRIPTION
System.String	text	

RuleGreenLeft(String)

Declaration

```
void RuleGreenLeft(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	

RuleGreenRight(String)

Declaration

```
void RuleGreenRight(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	

RuleRedCentre(String)

Declaration

```
void RuleRedCentre(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	

RuleRedLeft(String)

Declaration

```
void RuleRedLeft(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	

RuleRedRight(String)

Declaration

```
void RuleRedRight(string text)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	text	

TableInit(Table)

Declaration

```
void TableInit(Table table)
```

Parameters

TYPE	NAME	DESCRIPTION
Spectre.Console.Table	table	

UpdateCustomerTableCells(Int32, String)

Declaration

```
void UpdateCustomerTableCells(int row, string menuItem)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	row	
System.String	menuItem	

UpdateQuotationTableCells(Int32, String, Quotation)

Declaration

```
void UpdateQuotationTableCells(int row, string menuItem, Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	row	
System.String	menuItem	
Quotation	quotation	

Namespace MMI.Services.FileService

Classes

[FileService](#)

The implementation class of [IFileService](#). Handles the file operations and PDF generation.

Interfaces

[IFileService](#)

The interface for the FileService

Class FileService

The implementation class of IFileService. Handles the file operations and PDF generation.

Inheritance

System.Object

FileService

Implements

IFileService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Services.FileService

Assembly: MMI.dll

Syntax

```
public class FileService : IFileService
```

Constructors

FileService(ILogger<FileService>)

The constructor for the file service

Declaration

```
public FileService(ILogger<FileService> logger)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger<FileService>	logger	The logger DI Container

Methods

CreateCertificate(Quotation)

Generates a PDF file from a Quotation

Declaration

```
public void CreateCertificate(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The policy to be generated

CreateExpiringSoonReport(List<Quotation>, String)

Generates a PDF file from a System.Collections.Generic.List<T> of Quotation

Declaration

```
public void CreateExpiringSoonReport(List<Quotation> quotations, string reportType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Quotation>	quotations	The list of Quotation to be printed
System.String	reportType	The type of report to be generated

GeneratePdf(String, String)

The method that generates the PDF file

Declaration

```
public void GeneratePdf(string html, string fileName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	html	The html string representing the PDF's content
System.String	fileName	The filename to be generated

Implements

IFileService

Interface IFileService

The interface for the FileService

Syntax

```
public interface IFileService
```

Methods

CreateCertificate(Quotation)

Declaration

```
void CreateCertificate(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CreateExpiringSoonReport(List<Quotation>, String)

Declaration

```
void CreateExpiringSoonReport(List<Quotation> quotations, string reportType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Quotation>	quotations	
System.String	reportType	

GeneratePdf(String, String)

Declaration

```
void GeneratePdf(string html, string fileName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	html	
System.String	fileName	

Namespace MMI.Services.MenuService

Classes

[MenuService](#)

The implementation of the [IMenuService](#) interface. Handles the menu navigation and the menu display.

Interfaces

[IMenuService](#)

The interface for the menu service

Interface IMenuService

The interface for the menu service

Syntax

```
public interface IMenuService
```

Methods

AddCustomerCounty(Quotation)

Declaration

```
void AddCustomerCounty(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerEirCode(Quotation)

Declaration

```
void AddCustomerEirCode(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerFirstName(Quotation)

Declaration

```
void AddCustomerFirstName(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerLastName(Quotation)

Declaration

```
void AddCustomerLastName(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerMenu(Quotation)

```
void AddCustomerMenu(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerPhoneNumber(Quotation)

Declaration

```
void AddCustomerPhoneNumber(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

AddCustomerStreet(Quotation)

Declaration

```
void AddCustomerStreet(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

ConvertQuotationToPolicy(Quotation)

Declaration

```
void ConvertQuotationToPolicy(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuAge(Quotation)

Declaration

```
void CriteriaSelectionMenuAge(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuCounty(Quotation)

Declaration

```
void CriteriaSelectionMenuCounty(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuEmissionsCategory(Quotation)

Declaration

```
void CriteriaSelectionMenuEmissionsCategory(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuGender(Quotation)

Declaration

```
void CriteriaSelectionMenuGender(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuInsuranceCategory(Quotation)

Declaration

```
void CriteriaSelectionMenuInsuranceCategory(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

CriteriaSelectionMenuMake(Quotation)

Declaration

```
void CriteriaSelectionMenuMake(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

DisplayMainMenu()

Declaration

```
void DisplayMainMenu()
```

DisplayMenuPrompt(String, String[])

Declaration

```
string DisplayMenuPrompt(string prompt, string[] menuOptions)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	prompt	
System.String[]	menuOptions	

Returns

TYPE	DESCRIPTION
System.String	

GeneratePolicyCertificate(Quotation)

Declaration

```
void GeneratePolicyCertificate(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

MainMenuRouting(String)

Declaration

```
void MainMenuRouting(string menuOption)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	menuOption	

ReportsMenu()

Declaration

```
void ReportsMenu()
```

SaveQuotationToDatabase(Quotation)

Declaration

```
void SaveQuotationToDatabase(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

SearchExpiringPoliciesMenu()

Declaration

```
void SearchExpiringPoliciesMenu()
```

SearchExpiringQuotationsMenu()

Declaration

```
void SearchExpiringQuotationsMenu()
```

SearchPolicyMenu()

Declaration

```
void SearchPolicyMenu()
```

SearchPolicyMenuId()

Declaration

```
void SearchPolicyMenuId()
```

SearchQuotationMenu()

Declaration

```
void SearchQuotationMenu()
```

SearchQuotationMenuId()

Declaration

```
void SearchQuotationMenuId()
```

SelectQuotationCriteriaMenu(Quotation)

Declaration

```
void SelectQuotationCriteriaMenu(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

Class MenuService

The implementation of the IMenuService interface. Handles the menu navigation and the menu display.

Inheritance

System.Object

MenuService

Implements

IMenuService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Services.MenuService

Assembly: MMI.dll

Syntax

```
public class MenuService : IMenuService
```

Constructors

MenuService(IDisplayService, IQuotationService, IFileService, ILogger<MenuService>)

The constructor of the menu service

Declaration

```
public MenuService(IDisplayService displayService, IQuotationService quotationService, IFileService
fileService, ILogger<MenuService> logger)
```

Parameters

TYPE	NAME	DESCRIPTION
IDisplayService	displayService	The Display Service DI Container
IQuotationService	quotationService	The Quotation Service DI Container
IFileService	fileService	The File Service DI Container
Microsoft.Extensions.Logging.ILogger<MenuService>	logger	The logger DI Container

Methods

AddCustomerCounty(Quotation)

Prompt for the Customer County

```
public void AddCustomerCounty(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerEirCode(Quotation)

Prompt for the Customer EirCode

Declaration

```
public void AddCustomerEirCode(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerFirstName(Quotation)

Prompt for the Customer First Name

Declaration

```
public void AddCustomerFirstName(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerLastName(Quotation)

Prompt for the Customer Last Name

Declaration

```
public void AddCustomerLastName(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerMenu(Quotation)

The Main Customer Navigation Menu

Declaration

```
public void AddCustomerMenu(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerPhoneNumber(Quotation)

Prompt for the Customer Phone Number

Declaration

```
public void AddCustomerPhoneNumber(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

AddCustomerStreet(Quotation)

Prompt for the Customer Street

Declaration

```
public void AddCustomerStreet(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

ConvertQuotationToPolicy(Quotation)

Menu to Convert a Quotation's IsPolicy to true and extends the Valid Until date

Declaration

```
public void ConvertQuotationToPolicy(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuAge(Quotation)

The Age Selection Prompt for Quotation Criteria

```
public void CriteriaSelectionMenuAge(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuCounty(Quotation)

The County Selection Menu for Quotation Criteria

Declaration

```
public void CriteriaSelectionMenuCounty(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuEmissionsCategory(Quotation)

The Emissions Class Selection Menu for Quotation Criteria

Declaration

```
public void CriteriaSelectionMenuEmissionsCategory(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuGender(Quotation)

The Sex Selection Menu for Quotation Criteria

Declaration

```
public void CriteriaSelectionMenuGender(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuInsuranceCategory(Quotation)

The Insurance Category Selection Menu for Quotation Criteria

```
public void CriteriaSelectionMenuInsuranceCategory(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

CriteriaSelectionMenuMake(Quotation)

The Vehicle Model Selection Menu for Quotation Criteria

Declaration

```
public void CriteriaSelectionMenuMake(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

DisplayMainMenu()

Displays the main menu

Declaration

```
public void DisplayMainMenu()
```

DisplayMenuPrompt(String, String[])

Displays a prompt for the user to select a menu option

Declaration

```
public string DisplayMenuPrompt(string prompt, string[] menuOptions)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	prompt	The prompt to be shown to the user in the menu
System.String[]	menuOptions	An array of menu options.

Returns

TYPE	DESCRIPTION
System.String	The selected menu option.

GeneratePolicyCertificate(Quotation)

Menu to Generate a new PDF Certificate for a Policy

Declaration

```
public void GeneratePolicyCertificate(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

MainMenuRouting(String)

Routing for the MainMenu() Method.

Declaration

```
public void MainMenuRouting(string menuOption)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	menuOption	The option received from MainMenu()

ReportsMenu()

The Main Menu for Navigation of reports generation

Declaration

```
public void ReportsMenu()
```

SaveQuotationToDatabase(Quotation)

Prompt to progress from Quotation to the Customer Generation Menu to save the Quotation.

Declaration

```
public async void SaveQuotationToDatabase(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

SearchExpiringPoliciesMenu()

Menu for handling the search of Expiring Policies

Declaration

```
public void SearchExpiringPoliciesMenu()
```

SearchExpiringQuotationsMenu()

Menu for handling the search of Expiring Quotations

Declaration

```
public void SearchExpiringQuotationsMenu()
```

SearchPolicyMenu()

Main Menu for selecting what criteria to search for a Quotation that represents a policy by

Declaration

```
public void SearchPolicyMenu()
```

SearchPolicyMenuId()

Search Policy Menu for searching by Quotation ID

Declaration

```
public async void SearchPolicyMenuId()
```

SearchQuotationMenu()

Main Menu for selecting what criteria to search for a Quotation by

Declaration

```
public void SearchQuotationMenu()
```

SearchQuotationMenuId()

The Search Quotation Menu for searching by Quotation ID

Declaration

```
public async void SearchQuotationMenuId()
```

SelectQuotationCriteriaMenu(Quotation)

The Main Menu for Quotation Criteria Selection

Declaration

```
public void SelectQuotationCriteriaMenu(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The current instantiated Quotation object

Implements

IMenuService

Namespace MMI.Services.QuotationService

Classes

QuotationService

The implementation of IQuotationService using the Quotation API.

Interfaces

IQuotationService

Interface for Quotation Service

Interface IQuotationService

Interface for Quotation Service

Namespace: MMI.Services.QuotationService

Assembly: MMI.dll

Syntax

```
public interface IQuotationService
```

Methods

GetExpiringPoliciesAsync()

Declaration

```
Task<List<Quotation>> GetExpiringPoliciesAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<Quotation>>	

GetExpiringQuotationsAsync()

Declaration

```
Task<List<Quotation>> GetExpiringQuotationsAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<Quotation>>	

GetPolicyAsync(Int32)

Declaration

```
Task<Quotation> GetPolicyAsync(int id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	

GetQuotationAsync(Int32)

Declaration

```
Task<Quotation> GetQuotationAsync(int id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	

SaveQuotationAsync(Quotation)

Declaration

```
Task<Quotation> SaveQuotationAsync(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	

UpdateQuotationAsync(Quotation)

Declaration

```
Task<Quotation> UpdateQuotationAsync(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	

Class QuotationService

The implementation of IQuotationService using the Quotation API.

Inheritance

System.Object

QuotationService

Implements

IQuotationService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: MMI.Services.QuotationService

Assembly: MMI.dll

Syntax

```
public class QuotationService : IQuotationService
```

Constructors

QuotationService(ILogger<QuotationService>)

Constructor for QuotationService

Declaration

```
public QuotationService(ILogger<QuotationService> logger)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger<QuotationService>	logger	The logger DI Container

Methods

GetExpiringPoliciesAsync()

Gets a list of all the policies from the API which are expiring within 30 days.

Declaration

```
public async Task<List<Quotation>> GetExpiringPoliciesAsync()
```

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<Quotation>>	A System.Collections.Generic.List<T> of expiring Quotation representing the policies.

GetExpiringQuotationsAsync()

Gets a list of all the quotations from the API which are expiring within 3 days.

Declaration

```
public async Task<List<Quotation>> GetExpiringQuotationsAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Collections.Generic.List<Quotation>>	A System.Collections.Generic.List<T> of expiring Quotation

GetPolicyAsync(Int32)

Gets a policy from the API

Declaration

```
public async Task<Quotation> GetPolicyAsync(int id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	id	The Id to be passed to the api

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	A completed task containing the result of a quotation, which represents the policy

GetQuotationAsync(Int32)

Gets a quotation from the API

Declaration

```
public async Task<Quotation> GetQuotationAsync(int id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	id	The id to be passed to the api

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	A Completed task containing the result of a Quotation.

SaveQuotationAsync(Quotation)

Saves a quotation to the API - this is a POST request

Declaration

```
public async Task<Quotation> SaveQuotationAsync(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The quotation object to be sent to the API

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	The saved quotation object from the server

UpdateQuotationAsync(Quotation)

Updates a quotation to be a policy - this is a PUT request

Declaration

```
public async Task<Quotation> UpdateQuotationAsync(Quotation quotation)
```

Parameters

TYPE	NAME	DESCRIPTION
Quotation	quotation	The quotation that should be converted to a policy

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Quotation>	The updated quotation object from the server

Implements

[IQuotationService](#)