# System Requirements Specification Index

For

# Grocery Delivery Application (MS SQL)

Version 4.0

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#### **GROCERY DELIVERY APPLICATION SYSTEM**

#### **System Requirements Specification**

## 1. Business-Requirement:

#### 1.1 PROBLEM STATEMENT:

The purpose of this application is to allow the visitors to view the product, search product by name, add address before placing order and see the order details or many more functions below are mentioned.

#### 1.2 Following is the requirement specifications:

	Grocery Delivery Application
Home Controller	
1	View All Available Products.
2	View list of categories. (as menu bar)
3	Allow you to place an order.
4	Show product details by product id.
5	Show order info.

#### 2. Resources available:

#### 2.1 GROCERY DELIVERY:

Names	Resource	Remarks	Status
Package Structure/Proj			
ect			
controller	HomeController	Homecontroller handle all action method for respective user interface view(cshtml file)	Partially Implemented
Properties	launchsettings.json	Contain all URL settings for API	Already Implemented
	appsettings.json	Contains connection string for database.	Already Implemented

#### 2.2 GROCERY DELIVERY. BUSINESS LAYER:

Names Resource Remarks Status
-------------------------------

Package			
Structure			
	Interface directory	Inside this directory contains	Already Implemented
	contain all	all business logic code and	
	interface for	CURD Operation Logic	
Interfaces	Services class	method.	
	IGroceryServices,		
	GroceryServices,		
	IGroceryRepository		Partially Implemented
Services,	cs file for Method	Using this all cs file performed	
Repository	and business logic	all CURD operation.	
	Cs file for		Already Implemented
	represent all view		
ViewModels	entities	All view entities setting class	

#### 2.3 GROCERY DELIVERY. DATA LAYER:

Names	Resource	Remarks	Status
Package			
Structure			
	Contain all business	Using this cs file performed	Already Implemented
GroceryDbConte	logic for data set and	all Data related settings	
xt	Dbset setting	operations.	

#### **2.4 GROCERY DELIVERY. ENTITIES:**

Names	Resource	Remarks	Status
Package			
Structure			
	ApplicationUser,		Already Implemented
	ApplicationUser, MenuBar, Product,	Contain all entities property	
Entities Class	ProductOrder	for application	

#### **2.5 PACKAGE: GROCERY DELIVERY. TESTS**

#### Resources

Note: - Under the GroceryDelivery. Tests contain All Test cases for code evaluation, please don't try to alter and edit it.

## 3. REST ENDPOINTS

Rest End-points to be exposed in the controller along with method details for the same to be created

#### 3.1 HomeController

. Exposed	Purpose	
GET	Show or Fetch all product	
-	Show of Fetch all product	
<ienumerable<produc< td=""><td></td></ienumerable<produc<>		
t>>		
	Show all details of a product	
GFT	Show an actains or a product	
ProductId		
<product></product>		
POST	Place an order for an item	
ApplicationUser user	Place all older for all item	
Int(ProductId)		
<applicationuser></applicationuser>		
GET	Order information page	
Int (userId)	Order information page	
<ienumerable<produc< td=""><td></td></ienumerable<produc<>		
tOrder>>		
GET	Go to respective category	
-	Go to respective category	
<category></category>		
	- <ienumerable<produc t="">&gt;  GET ProductId <product>  POST ApplicationUser user Int(ProductId) <applicationuser>  GET Int (userId) <ienumerable<produc torder="">&gt;  GET -</ienumerable<produc></applicationuser></product></ienumerable<produc>	

# 4. Business Validations

#### **4.1 Application User Entity:**

- UserId Int
- Name string
- Email string
- MobileNumber long
- PinCode long
- HouseNo\_Building\_Name string
- Road\_area string
- City string

State string

#### 4.2 Menubar Entity:

- Id int
- Title string
- Url string
- OpenInNewWindow bool

#### **4.3 Product Entity:**

- ProductId int
- ProductName string
- Description string
- Amount Double
- Stock int
- CatId int
- Photo string

#### **4.4 Product Order Entity:**

- OrderId int
- Product Id
- Usrld int

#### **4.5 Common Constraints:**

- Following validation constraints are to be added :
- All the value for Address Details Under the ApplicationUser: must not be null and min of 4 chars.
- All the category/Menu Bar value: must not be null and min of 3 chars
- All the product: must not be null and min of 3 chars.
- All the ProductOrder: must not be null.
- For all receiving Url parameter, validation check must be done and must throw custom exception if data is invalid
- Must not go and touch the test resources, as they will be used for Auto-Evaluation.

#### 5. EXECUTION STEPS TO FOLLOW

- 1. All actions like build, compile, running application, running test cases will be through Command Terminal.
- 2. To open the command terminal the test takers need to go to the Application menu (Three horizontal lines at left top) Terminal  $\rightarrow$  New Terminal.
- 3. On command prompt, cd into your project folder (cd <Your-Project-folder>).
- 4. To connect SQL server from terminal:

(GroceryDelivery/sqlcmd -S localhost -U sa -P pass@word1)

- To create database from terminal -
  - 1. Create Database GroceryDelivery\_Db
  - 2. Go
- 5. Steps to Apply Migration(Code first approach):
  - Press Ctrl+C to get back to command prompt
  - Run following command to apply migration-(GroceryDelivery /dotnet-ef database update)
- 6. To check whether migrations are applied from terminal:

(GroceryDelivery /sqlcmd -S localhost -U sa -P pass@word1)

```
1> Use GroceryDelivery_Db
```

2> Go

1> Select \* From EFMigrationsHistory

2> Go

7. To build your project use command:

(GroceryDelivery /dotnet build)

- 8. To launch your application, Run the following command to run the application: (GroceryDelivery /dotnet run)
- 9. This editor Auto Saves the code.
- 10. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.
- 11. To test any UI based application the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.

12. To run the test cases in CMD, Run the following command to test the application: (You can run this command multiple times to identify the test case status, and refactor code to make maximum test cases passed before final submission) (GroceryDelivery.Test/dotnet test --logger "console;verbosity=detailed").

- 13. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
- 14. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
- 15. You need to use CTRL+Shift+B command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.