

---

# System Requirements Specification

**Index**

**For**

**Feedback  
Management  
Application**

**Version 1.0**

# FEEDBACK MANAGEMENTAPPLICATION

## System Requirements Specification

---

### 1 PROJECT ABSTRACT

The **Feedback ManagementApplication** is a ASP.NET Core Web API 7.0 with MS SQL Server database connectivity. It enables users to manage various aspects of Feedback management.

**Following is the requirement specifications:**

	Feedback Management Application	
Modules		
	1	Feedback
Feedback Module Functionalities		
	1	Create an Feedback
	2	Update the existing Feedback details
	3	Get the Feedback by Id
	4	Get all Feedbacks
	5	Delete an Feedback

## 2 ASSUMPTIONS, DEPENDENCIES, RISKS / CONSTRAINTS

### 2.1 Feedback CONSTRAINTS

- When fetching an Feedback by ID, if the Feedback ID does not exist, the operation should throw a custom exception.
- When updating an Feedback, if the Feedback ID does not exist, the operation should throw a custom exception.
- When removing an Feedback, if the Feedback ID does not exist, the operation should throw a custom exception.

### Common Constraints

- For all rest endpoints receiving @RequestBody, validation check must be done and must throw custom exception if data is invalid
- All the database operations must be implemented on entity object only
- Do not change, add, remove any existing methods in service layer
- In Repository interfaces, custom methods can be added as per requirements.
- All RestEndpoint methods and Exception Handlers must return data wrapped in **ResponseEntity**

## 3 BUSINESS VALIDATIONS

- FeedbackId (Int) Key, Not Null
- UserId(int), Not null
- Comment (string)
- Rating(Int)
- Submission Date (DateTime) of the event Feedback not null.

## 4 REST ENDPOINTS

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

### 4.1 EVENTCONTROLLER

<b>URL Exposed</b>		<b>Purpose</b>
1. /get-all-Feedbacks		Fetches all the Feedbacks
Http Method	GET	
Parameter	-	
Return	<IEnumerable<Feedba ck>>	
2. /create-Feedback		Add a new Feedback
Http Method	POST	
Parameter 1	Feedback	
Return	Feedback	
3. /delete-Feedback		Delete Feedback with given Feedback id
Http Method	DELETE	
Parameter 1	Int (id)	
Return	-	
4./ get-Feedback-by-id		Fetches the Feedback with the given id
Http Method	GET	
Parameter 1	Int (id)	
Return	Feedback	
5. /update-Feedback		Updates existing Feedback
Http Method	PUT	
Parameter 1	Int (id)	
Parameter 2	Feedback	
Return	Feedback	

## 5. TEMPLATE CODE STRUCTURE

---

## 5.1 Package: FeedbackManagementApp

### Resources

Names	Resource	Remarks	Status
Package Structure			
controller	Feedback Controller	Controller class to expose all rest-endpoints for auction related activities.	Partially implemented
Program.cs	Program.cs file	Contain all Services settings and SQL server Configuration.	Already Implemented

Interface	IFeedbackService, interface	Inside all these interface files contains all business validation logic functions.	Already Implemented
Service	FeedbackService CS file	Using this all class we are calling the Repository method and use it in the program and on the controller.	Partially Implemented
Repository	IFeedbackRepository FeedbackRepository CS file and interface.	All these interfaces and class files contain all CRUD operation code for the database. Need to provide implementation for service related functionalities	Partially Implemented
Models	Feedback cs file	All Entities/Domain attribute are used for pass the data in controller.	Already Implementation

## 5.2 Package: FeedbackManagementApp.Tests

### Resources

The FeedbackManagementApp.Tests project contains all test case classes and functions for code evaluation. Don't edit or change anything inside this project.

## 6. EXECUTION STEPS TO FOLLOW

---

1. After successfully cloning the project template on desktop, you will be able to see folder named with your user id. (e.g. [user@gmail.com](mailto:user@gmail.com))
2. Go to below path and open solution file with Visual Studio.  
Path: `user@gmail.com > FeedbackManagementApp > FeedbackManagementApp.sln`
3. All actions like build, compile, running application, running test cases will be through Command Terminal.
4. To open the command terminal the test takers need to go to (Top horizontal menu bar) View → Terminal.
5. To connect SQL server from terminal:  
(FeedbackManagementApp /`sqlcmd -S localhost -U sa -P pass@word1`)
  - To create database from terminal -  
`1> Create Database FeedbackDb`  
`2> Go`
6. Steps to Apply Migration(Code first approach):
  - Press **Ctrl+C** to get back to command prompt
  - Run following command to apply migration-  
(FeedbackManagementApp /`dotnet-ef database update`)
7. To check whether migrations are applied from terminal:  
(FeedbackManagementApp /`sqlcmd -S localhost -U sa -P pass@word1`)  
`1> Use FeedbackDb`  
`2> Go`  
`1> SELECT * FROM __MigrationHistory`  
`2> Go`
8. To build your project use command:  
(FeedbackManagementApp /`dotnet build`)
9. To launch your application, Run the following command to run the application:  
(FeedbackManagementApp /`dotnet run`)
10. To launch your application, press `F5` or use `Ctrl + F5` to start your application without debugging.

**Note: The application will run in the local browser**

**11. To test any Restful application, you can use POSTMAN.**

**12. To test any applications on a browser, use the internal browser in the workspace.**

**13. To run the test cases in CMD, Run the following command to test the application:**

**(FeedbackManagementApp.Tests/`dotnet test --logger "console;verbosity=detailed"`)**

**(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)**

**14. Steps to push changes to GitHub:**

- Go to "View" -> "Git Changes" from the top menu bar of Visual Studio.
- In the "Changes" window on the right side of Visual Studio, you'll see the modified files.
- Enter any commit message in the "Message" box at the top of the window, and click on "Commit All" button.
- After committing your changes, Click the "Push" button (Up Arrow Button) to push your committed changes to the GitHub repository.

**15. If you want to exit (logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to follow step-14 compulsorily. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**

**16. 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.**

**17. You need to follow step-14 compulsorily, 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.**