

12576 Nisanth Saravanan
RIX2024-Batch 1_Code Quality & Design Principles Lab
Assessment

Selected Project: Appointment Manager.

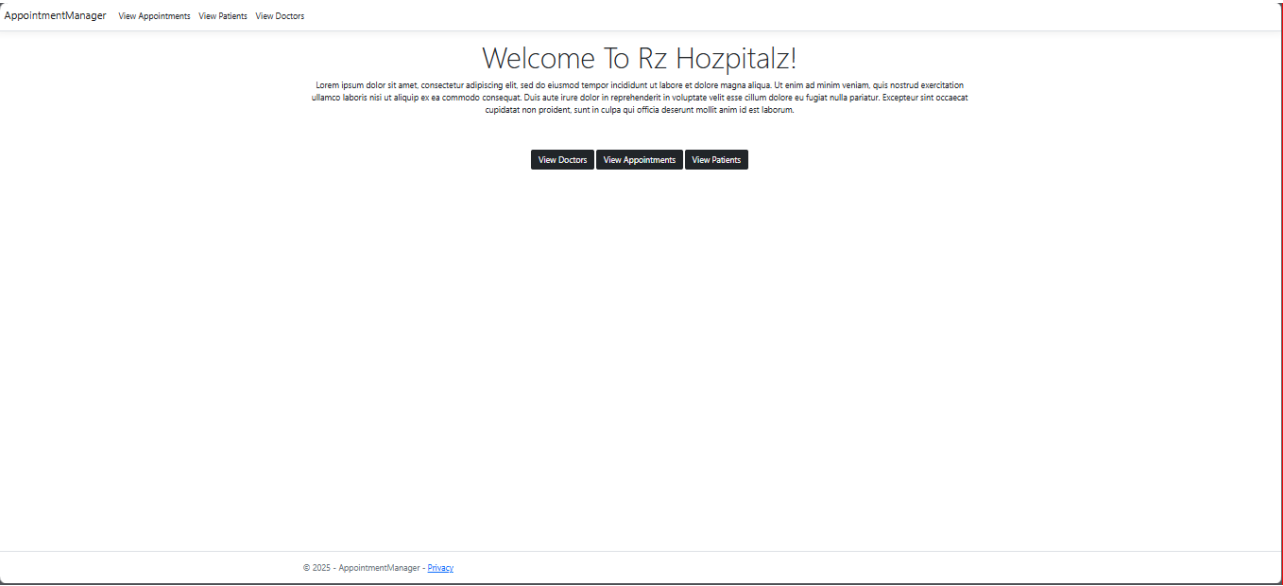
Coder: Nisanth Saravanan

Reviewer: Ranjithkumar Palanisamy

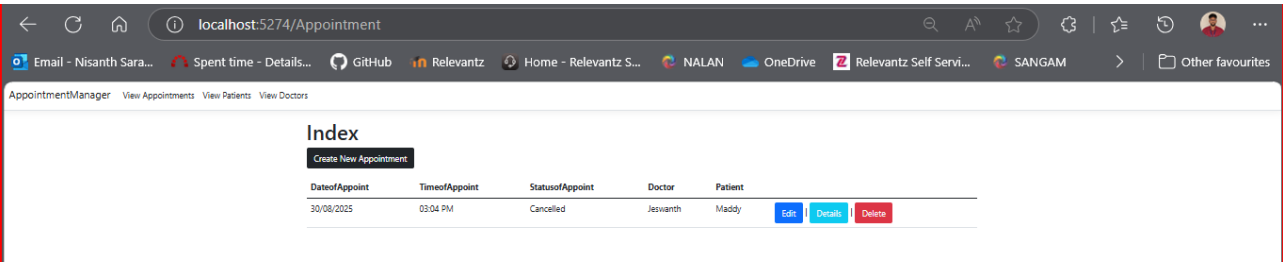
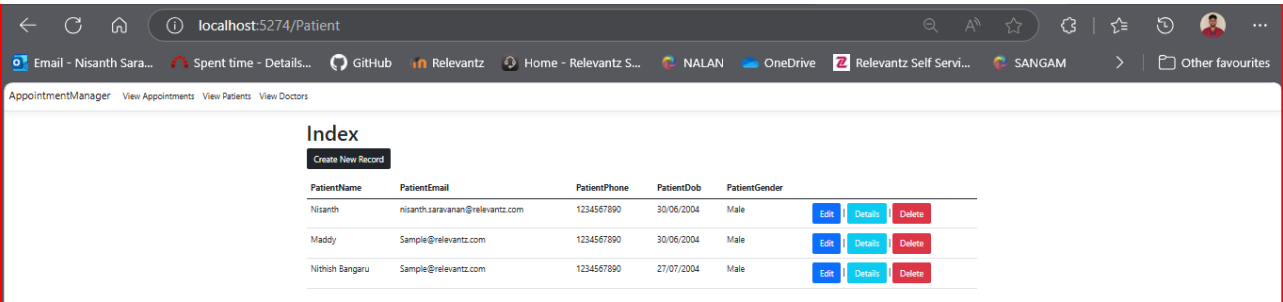
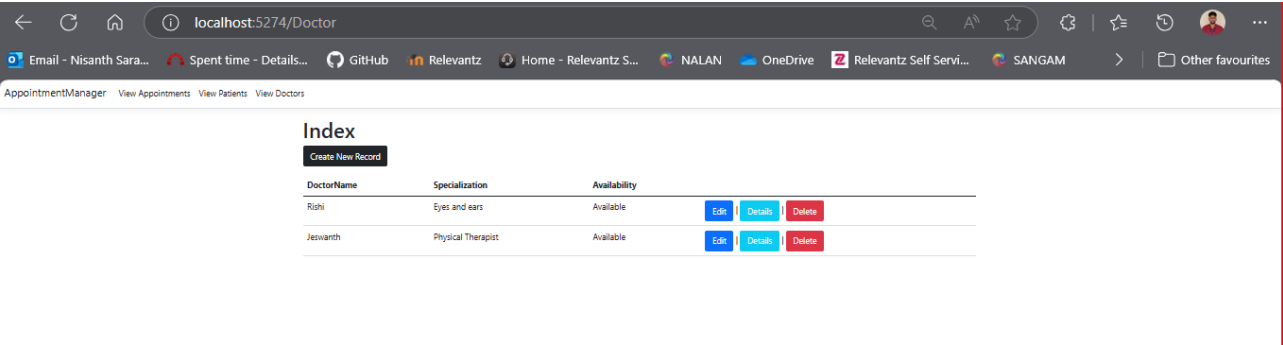
Project Description:

A MVC Project that let's us add doctor, patient and appointment, in Razor pages.

Project Output Screens:



GET Method: Status: Working.



POST Method: Status: Working.

Create

Patient

Patient Name:

Email:

Contact Number:

Date of Birth: (YYYY-MM-DD Format)

Gender:

[Back to List](#)

Create

Doctor

Doctor Name:

Specialization:

Availability:

[Back to List](#)

Create

Appointment

Patient Name:

Doctor Name:

Date of Appointment: (YYYY-MM-DD Format)

Time of Appointment: (24 Hour Format)

Status of Appointment:

[Back to List](#)

Reflection after POST:

Index

Create New Record

PatientName	PatientEmail	PatientPhone	PatientDob	PatientGender			
Nisanth	nisanth.saravanan@relevantz.com	1234567890	30/06/2004	Male	Edit	Details	Delete
Maddy	Sample@relevantz.com	1234567890	30/06/2004	Male	Edit	Details	Delete
Nithish Bangaru	Sample@relevantz.com	1234567890	27/07/2004	Male	Edit	Details	Delete
XYZ	admin@relevantz.com	1234567890	27/07/2004	Male	Edit	Details	Delete

Index

Create New Record

DoctorName	Specialization	Availability			
Rishi	Eyes and ears	Available	Edit	Details	Delete
Jeswanth	Physical Therapist	Available	Edit	Details	Delete
ABC	Something	Available	Edit	Details	Delete

Index

Create New Appointment

DateofAppoint	TimeofAppoint	StatusofAppoint	Doctor	Patient			
30/08/2025	03:04 PM	Cancelled	Jeswanth	Maddy	Edit	Details	Delete
30/08/2025	03:04 PM	Completed	ABC	XYZ	Edit	Details	Delete

Initial SonarQube Analysis:

The screenshot shows the SonarQube dashboard for a project named 'AppointmentManager'. The interface is in a browser window at 'localhost:9000'. The top navigation bar includes links for 'Email', 'Spent time', 'Details', 'GitHub', 'Relevantz', 'Home', 'Relevantz S...', 'NALAN', 'OneDrive', 'Relevantz Self Servi...', 'SANGAM', and 'Other favourites'. The main header shows the project name and a 'main' branch. The dashboard displays a 'Quality Gate' status of 'Failed' with a warning icon. Below this, a table shows various metrics: Security (12 Open Issues, D), Reliability (48 Open Issues, D), Maintainability (38 Open Issues, A), Accepted issues (0, 0.0%), Coverage (0.0%, 207 lines to cover), Duplications (17.7%, 1.9k lines), and Security Hotspots (2, E). The 'Activity' section is visible at the bottom.

main 1.6k Lines of Code • Version not provided • Set as homepage • Take the Tour

Quality Gate **Failed** Last analysis 31 seconds ago

The last analysis has warnings. [See details](#)

New Code **2 failed** Overall Code

Security 12 Open Issues D	Reliability 48 Open Issues D	Maintainability 38 Open Issues A
Accepted issues 0 Valid issues that were not fixed	Coverage 0.0% On 207 lines to cover.	Duplications 17.7% On 1.9k lines.
Security Hotspots 2 E		

Activity

This detailed view of the SonarQube dashboard shows the same metrics as the screenshot above. The 'Quality Gate' status is 'Failed'. The table of metrics is as follows:

Security 12 Open Issues D	Reliability 48 Open Issues D	Maintainability 38 Open Issues A
Accepted issues 0 Valid issues that were not fixed	Coverage 0.0% On 207 lines to cover.	Duplications 17.7% On 1.9k lines.
Security Hotspots 2 E		

Activity

Peer-Review Comments:

QUALITY ASSURANCE AUDIT CHECKLIST TEMPLATE										
Ref No.	Source[Code File] Position [Code Line]	SCORE [1-5]	MEETS STANDARDS	OPPORTUNITIES FOR IMPROVEMENT	MINOR CONCERNS	MAJOR CONCERNS	NOTES	RECOMMENDATIONS	STATUS MARK RESOLVED	
1	AuthService - line: 7	3	No	Yes	Yes	No	Class name must be pascal	change authService to Pascal case	RESOLVED	
2	PatientLoc - line: 6, 10, 12, 18	4	No	Yes	Yes	No	variable must be non-nullabile	add "!" to data type => string?	RESOLVED	
3	AppointmentLoc - line: 18, 20	4	No	Yes	Yes	No	variable must be non-nullabile	add "!" to data type => string?	RESOLVED	
4	PatientLoc - line: 6	3	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED	
5	AppointmentLoc - line: 6	3	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED	
6	DoctorLoc - line: 6	4	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED	
7	DoctorLoc - line: 10, 12, 14	4	No	Yes	Yes	No	variable must be non-nullabile	add "!" to data type => string?	RESOLVED	
8	NewsItemIndex.html	5	No	Yes	Yes	No	check the paragraph tag once	Add some simple and understandable sentence	NOT RESOLVED The paragraph is a design placeholder	
9	General	4	No	Yes	Yes	No	Add some why comments	Add some why commands	RESOLVED	
10	General	3	No	Yes	Yes	No	Remove unwanted commands	Delete those commands	RESOLVED	
11	General	5	Yes	Yes	-	-	Proper Naming	Naming for Class		
12	General	5	Yes	Yes	-	-	Proper Naming	Naming for Objects		
13	General	5	Yes	Yes	-	-	Proper Naming	Naming for Variables		
14	General	5	Yes	Yes	-	-	Proper Naming	Naming for Namespace		
15	General	5	Yes	Yes	-	-	Proper Naming	Naming for label in html		
16	General	5	Yes	Yes	-	-	Proper Naming	Naming for Placeholder in html		
17	General	5	Yes	Yes	-	-	Proper Naming	Proper method naming		
18	General	5	Yes	Yes	-	-	Proper Naming	Proper File Naming		
19	General	5	Yes	Yes	-	-	Implemented async/await	Implemented Asynchronous		
20	General	5	Yes	Yes	-	-	Remove unused imports	check every import have used	RESOLVED	
21										



12576_Nisanth_Quality-Assurance-Audit-Checklist.xlsx

GitHub Link:

[Nisanth-Saravanan/AppointManager Code Review Repo](https://github.com/Nisanth-Saravanan/AppointManager)

Post Refactoring SonarQube Analysis:

The screenshot shows the SonarQube dashboard for a project named 'AppointmentManager'. The browser address bar indicates the URL is 'localhost:9000/dashboard?id=AppointmentManager---Sonar---Project&codeScope=overall'. The dashboard header includes navigation links for Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, and More. A notification bar at the top states: 'Keep your instance current and get the latest SonarQube Community Build, available now.' Below this, a warning message reads: 'Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)'.

The main section displays the 'main' branch with '1.6k Lines of Code' and a 'Version not provided' status. A 'Quality Gate' section shows a green checkmark and the word 'Passed', with a note: 'The last analysis has warnings. [See details](#)'. The last analysis was performed 3 minutes ago.

Below the Quality Gate, there are two tabs: 'New Code' and 'Overall Code'. The 'Overall Code' tab is selected, showing a grid of metrics:

Security	Reliability	Maintainability
10 Open issues (D)	30 Open issues (D)	27 Open issues (A)
Accepted issues: 6 (Valid issues that were not fixed)	Coverage: 0.0% (On 207 lines to cover)	Duplications: 17.6% (On 1.9k lines)
Security Hotspots: 2 (E)		

At the bottom, there is an 'Activity' section.

This image provides a detailed view of the SonarQube dashboard metrics. The 'main' branch is selected, showing '1.6k Lines of Code' and 'Version not provided'. The 'Quality Gate' is 'Passed', with a warning: 'The last analysis has warnings. [See details](#)'. The last analysis was performed 3 minutes ago.

The 'Overall Code' tab is selected, displaying a grid of metrics:

Security	Reliability	Maintainability
10 Open issues (D)	30 Open issues (D)	27 Open issues (A)
Accepted issues: 6 (Valid issues that were not fixed)	Coverage: 0.0% (On 207 lines to cover)	Duplications: 17.6% (On 1.9k lines)
Security Hotspots: 2 (E)		

At the bottom, there is an 'Activity' section.