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

Selected Project: Appointment Manager.

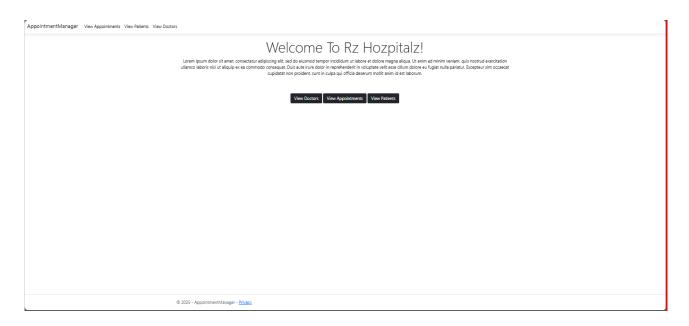
Coder: Nisanth Saravanan

Reviewer: Ranjithkumar Palanisamy

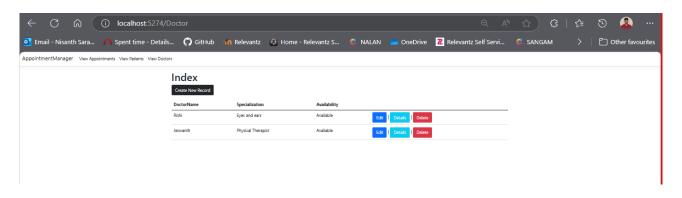
Project Description:

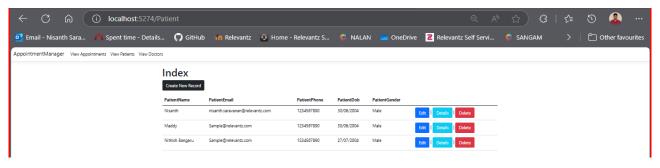
A MVC Project that let's us add doctor, patient and appointment, in Razor pages.

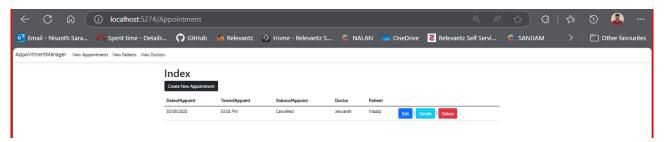
Project Output Screens:



GET Method: Status: Working.







POST Method: Status: Working.

Create

Patient Name: XYZ Email: admin@relevantz.com Contact Number: 1234567890 Date of Birth: (YYYY-MIM-DD Format) 27-07-2004 Gender: Male Create Back to List

Create Doctor Doctor Name: ABC Specialization: Something Availability: Available Create Back to List

Create

Appointment

Patient Name:
XYZ
Doctor Name:
ABC
Date of Appointment: (YYYY-MM-DD Format)
2025-08-30
Time of Appointment: (24 Hour Format)
15:04
Status of Appointment:
Completed
Create
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

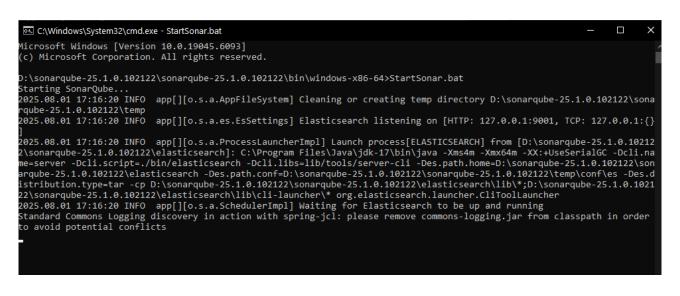
DoctorName	Specialization	Availability	
Rishi	Eyes and ears	Available	Edit Details Delete
Jeswanth	Physical Therapist	Available	Edit Details Delete
ABC	Something	Available	Edit Details Delete

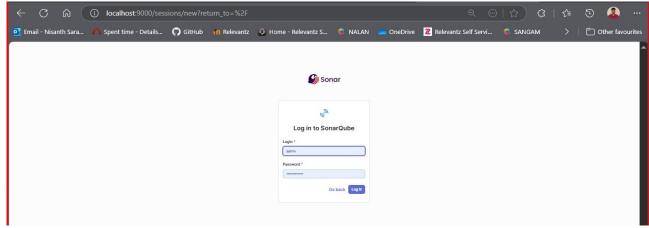
Index

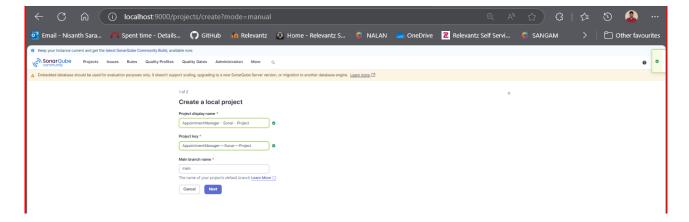
Create New Appointment

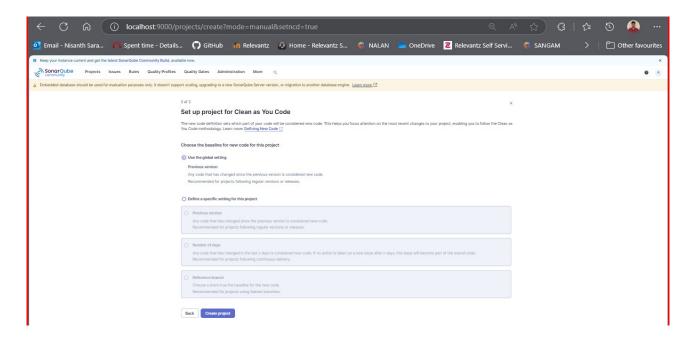
DateofAppoint	TimeofAppoint	StatusofAppoint	Doctor	Patient	
30/08/2025	03:04 PM	Cancelled	Jeswanth	Maddy	Edit Details Delete
30/08/2025	03:04 PM	Completed	ABC	XYZ	Edit Details Delete

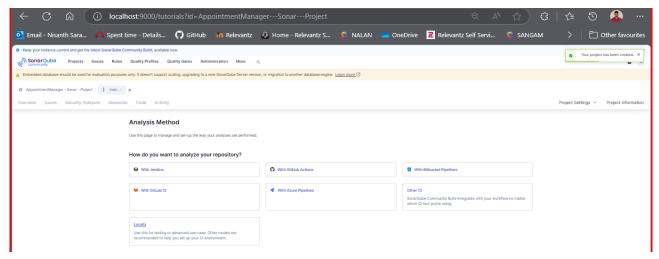
SonarQube Setup:







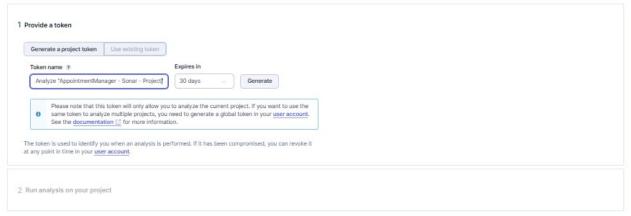




Analysis Method > Locally

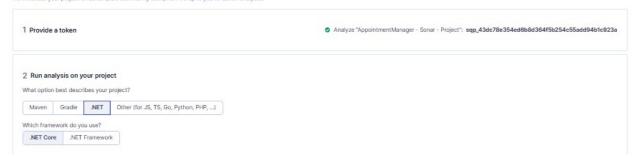
Analyze your project

We initialized your project on SonarQube Community Build, now it's up to you to launch analyses!



Analyze your project

We initialized your project on SonarQube Community Build, now it's up to you to launch analyses!

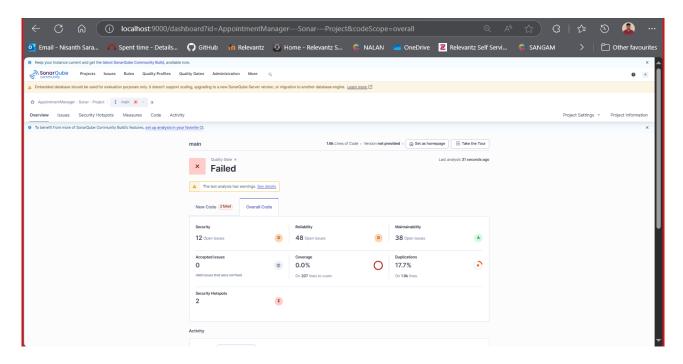


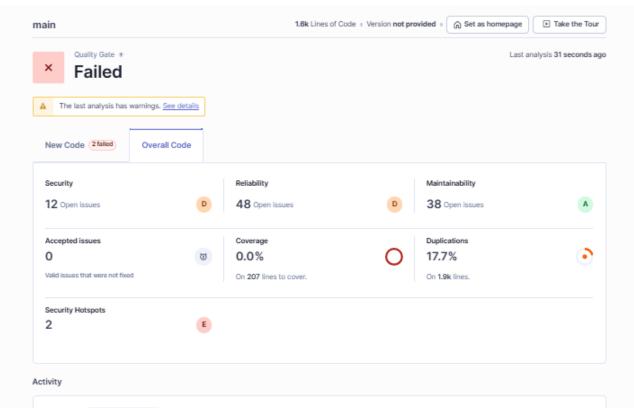
```
PS D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager> dotnet build
Restore complete (0.5s)
AppointmentManager succeeded with 31 warning(s) (11.7s) → bin\Debug\net8.0\AppointmentManager_dll
D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager\Views\Appointment\Delete.cshtml(36,39): warning CS8602: Dereference of a possibly null reference.
D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager\Views\Appointment\Delete.cshtml(42,39): warning CS8602: Dereference of a possibly null reference.
D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager\Views\Appointment\Deletails.cshtml(35,39): warning CS8602: Dereference of a possibly null reference.
```

```
PS D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager> dotnet
sonarscanner end /d:sonar.token="sqp_43dc78e354ed6b8d364f5b254c55add94b1c923a"
Sonarscanner for MSBuild 10.3
Using the .NET Core version of the Scanner for MSBuild
Post-processing started.
17:21:15.491 Starting with Scanner for .NET v8 the way the `sonar.projectBaseDir` property is automatically detected has changed and this has an imp
act on the files that are analyzed and other properties that are resolved relative to it like `sonar.exclusions` and `sonar.test.exclusions`. If you
would like to customize the behavior, please set the `sonar.projectBaseDir` property to point to a directory that contains all the source code you wa
not to analyze. The path may be relative (to the directory from which the analysis was started) or absolute.
Calling the SonarScanner CLI...
INFO: Scanner configuration file: C:\Users\nisanth.saravanan\.dotnet\tools\.store\dotnet-sonarscanner\10.3.0\dotnet-sonarscanner\10.3.0\tools\netcore
app3.1\any\sonar-scanner-5.0.2.4997\bin\..\conf\sonar-scanner-properties
INFO: Project root configuration file: D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager
\INFO: SonarScanner 5.0.2.4997
INFO: SonarScanner 5.0.2.4997
INFO: Java 17.0.13 Eclipse Adoptium (64-bit)
INFO: Hiddows 10.20 and 64
```

```
INFO: EXECUTION SUCCESS
INFO: Total time: 20.3445
INFO: Final Memory: 15M/60M
INFO: -------
The SonarScanner CLI has finished
17:21:36.954 Post-processing succeeded.
PS D:\Intern Files\Intern Assessment\L1 Assessment\Code Quality\AppointManager_Code_Review_Repo\AppointmentManager\AppointmentManager>
```

Initial SonarQube Analysis:





Peer-Review Comments:

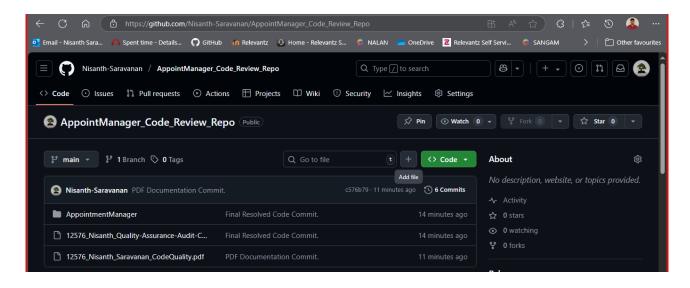
QUALITY ASSURANCE AUDIT CHECKLIST TEMPLATE									
Ref No.	Source[Code Fie] Position (Code Line)	SCORE [1-5]	MEETS STANDARDS	OPPORTUNITIES FOR IMPROVEMENT	MINOR CONCERNS	MAJOR CONCERNS	NOTES	RECOMMENDATIONS	STATUS MARK RESOLVED
1	AppObContext.cs - line:9	3	No	Yes	Yes	No	Class name must be pascal	change appdbcontext to Pascal case	RESOLVED
2	Patientos - line : 6 , 10 , 12 , 18	4	No	Yes	Yes	No	variable must be non-nullable	add "?" to data type ⇒ string?	RESOLVED
3	Appointment.cs - line:18, 20	4	No	Yes	Yes	No	variable must be non-nullable	add "?" to data type ⇒ string?	RESOLVED
4	Patientos - line : 6	3	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED
5	Appointment.cs - line : 6	3	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED
- 6	Oactor.cs - line:6	4	No	Yes	Yes	No	Class name must be pascal	To pascal	RESOLVED
7	Oactor.cs - line: 10 , 12 , 14	4	No	Yes	Yes	No	variable must be non-nullable	add "?" to data type ⇒ string?	RESOLVED
- 8	Niews/Home/Index.cshtml	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	Namings for Class	
12	General	5	Yes	Yes			Proper Naming	Namings for Objects	
13	General	5	Yes	Yes		_	Proper Naming	Namings for Variables	
14	General	5	Yes	Yes			Proper Naming	Namings for Namespace	
15	General	5	Yes	Yes	_	_	Proper Naming	Namings for label in cahtml	
16	General	5	Yes	Yes			Proper Naming	Namings for Placeholder in cs.html	
17	General	5	Yes	Yes	_	_	Proper Naming	Proper method namings	
18	General	5	Yes	Yes			Proper Naming	Proper File Namings	
19	General	5	Yes	Yes			implemented asynchryonous	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



Post Refactoring SonarQube Analysis:

