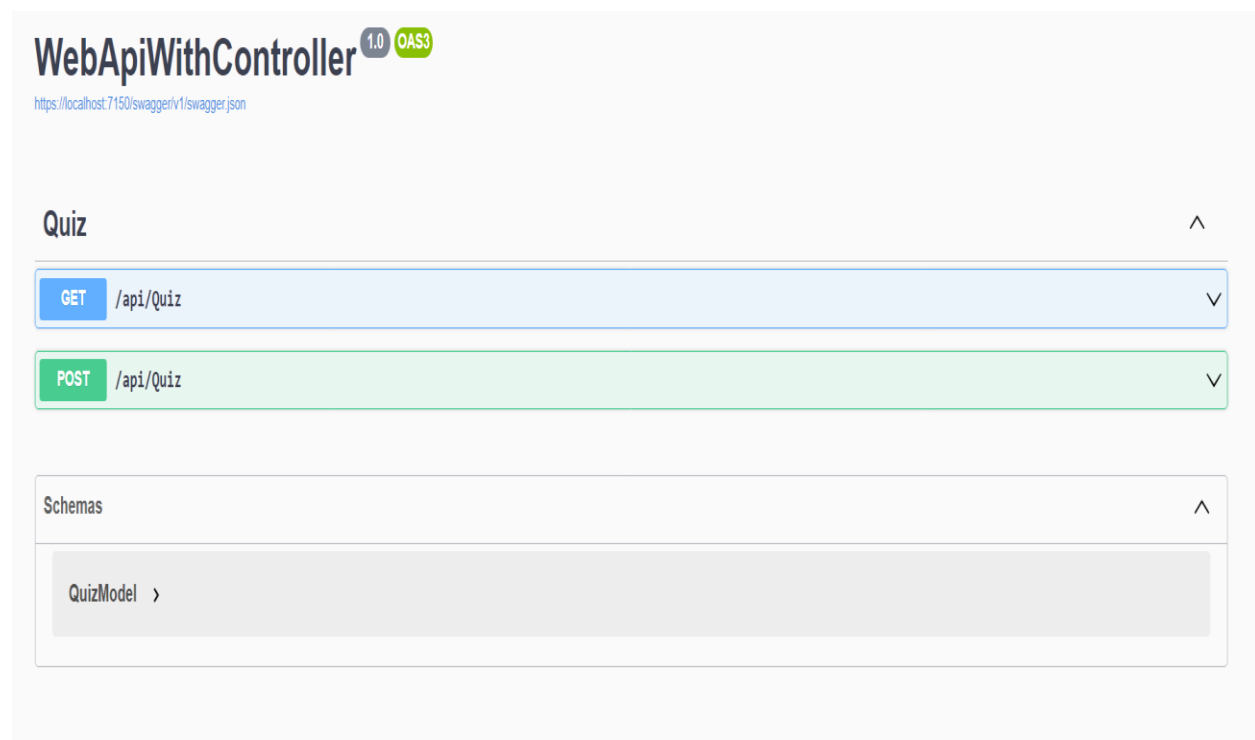Rubanchinnarathinam

11990

Jenkins assessment

1. Create a dotnet core application for quiz program

Fields are:

Example Value | Schema

```json
[
  {
    "question_No": 0,
    "question_Text": "string",
    "question_Category": "string",
    "question_Answer": "string"
  }
]
```

N-unit testing

Test	Duration	Traits	Error Message
▲ ✓ WebApiQuizProject.test (3)	31 ms		
▲ ✓ WebApiQuizProject.test (3)	31 ms		
▲ ✓ Tests (3)	31 ms		
✓ TestMethodForGetQues...	18 ms		
✓ TestMethodForPostQue...	13 ms		
✓ TestMethodForPostQue...	< 1 ms		

Group Summary

WebApiQuizProject.test

Tests in group: 3

🕐 Total Duration: 31 ms

Outcomes

✓ 3 Passed

using Microsoft.AspNetCore.Http.HttpResults;

```csharp
using WebApiWithController.Controllers;

using WebApiWithController.Models;

namespace WebApiQuizProject.test

{

    public class Tests

    {

        private QuizController controller;

        [SetUp]

        public void Setup()

        {

            controller = new QuizController();

        }


        [Test]

        public void TestMethodForGetQuestions()

        {

            IEnumerable<QuizModel> result = controller.GetQuestions();

            Assert.That(result, Is.Not.Null);

            Assert.That(result.Count(), Is.EqualTo(0));

        }

        [Test]

        public void TestMethodForPostQuestions()

        {

            var newItem = new QuizModel
```

```csharp
            {
                Question_No = 1,
                Question_Text = "test",
                Question_Category = "test",
                Question_Answer = "test"
            };
            var actionResult = controller.PostQuestions(newItem);
            Assert.That(actionResult, Is.Not.Null);


        }
        [Test]
        public void TestMethodForPostQuestionNull()
        {
            var newItem = new QuizModel
            {
                Question_No = 1,
                Question_Text = null,
                Question_Category = null,
                Question_Answer = null
            };
            var actionResult = controller.PostQuestions(newItem);
            Assert.IsNotInstanceOf<BadRequest>(actionResult);
        }
    }
```

}

3. the swagger and test the Web Api

4. Application to the Git repository

    1. create a new repository

    2. push all the files to the git hub repository

Creating new repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Owner *
Repository name *

rubanch ▾ / JenkinsAssessment

✅ JenkinsAssessment is available.

Great repository names are short and memorable. Need inspiration? How about **bug-free-meme** ?

Description (optional)

_____

🔘 🖥️ **Public**
Anyone on the internet can see this repository. You choose who can commit.

⚪ 🔒 **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

☐ **Add a README file**
This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore

.gitignore template: None ▾

```
Counting objects: 100% (231/231), done.
Delta compression using up to 12 threads
Compressing objects: 100% (208/208), done.
Writing objects: 100% (231/231), 3.10 MiB | 2.61 MiB/s, done.
Total 231 (delta 97), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (97/97), done.
To https://github.com/rubanch/JenkinsAssessment.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

rubanchinnarathin.m@RLP1649 MINGW64 /d/snakegen-R/WebApiForTestsAndJenkins (main)
$ |
```
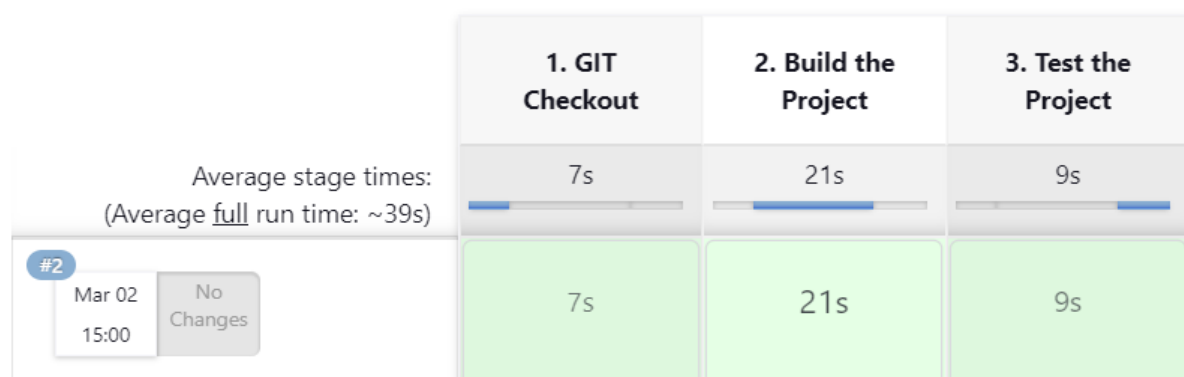
main ▾   1 Branch   0 Tags   Go to file   t   Add file ▾   <> Code ▾

Rubanchinnarathinam first commit   ddf5042 · 1 minute ago   1 Commits

📁 .vs	first commit	1 minute ago
📁 .vscode	first commit	1 minute ago
📁 WebApiTeacherProject.test	first commit	1 minute ago
📁 WebApiWithController	first commit	1 minute ago
📄 WebApiWithController.sln	first commit	1 minute ago

All the files are updated in the files.

4. Configuring the Jenkins

Stage View

	1. GIT Checkout	2. Build the Project	3. Test the Project
Average stage times: (Average full run time: ~39s)	7s	21s	9s
#2 Mar 02 15:00 No Changes	7s	21s	9s

Starting the sonar server

Creating a new project file in sonar

Stage View

	1. GIT Checkout	2. Build the Project	3. Test the Project	4. Code Quality Test	5. Code Quality Build	6. Publish Report
Average stage times: (Average full run time: ~48s)	6s	17s	8s	5s	8s	19s
#3 Mar 02 15:11 No Changes	5s	12s	6s	5s	8s	19s
#2 Mar 02 15:00 No Changes	7s	21s	9s			

Code:

```
node

{

   stage(' 1. GIT Checkout')

   {

      git 'https://github.com/rubanch/Assignment-gen1.git'

   }

   stage(' 2. Build the Project')

   {

      bat 'dotnet build'

   }

   stage(' 3. Test the Project')

   {

      bat 'dotnet test'

   }


   stage(' 4. Code Quality Test')

   {
```

```
        bat 'dotnet sonarscanner begin /k:"jenkinsAssessment"
/d:sonar.host.url="http://localhost:9000"
/d:sonar.login="sqp_e41cb85a10e08fcf940480c4bccaaa9206f83c29"'

    }


    stage(' 5. Code Quality Build')

    {

      bat 'dotnet build'

    }


    stage(' 6. Publish Report')

    {

      bat 'dotnet sonarscanner end
/d:sonar.login="sqp_e41cb85a10e08fcf940480c4bccaaa9206f83c29"'

    }

}
```

⊗ QuizQuesionspipeline

✎ Add description

Disable Project

Stage View

	1. GIT Checkout	2. Build the Project	3. Test the Project	4. Code Quality Test	5. Code Quality Build	6. Publish Report	7. Dockerize the project
Average stage times: (Average full run time: ~48s)	6s	16s	7s	3s	7s	15s	3s
#7 Mar 02 15:47 No Changes	8s	21s	8s	3s	7s	19s	3s failed

⊘ QuizQuetionspipeline

✎ Add description

Disable Project

Stage View

	1. GIT Checkout	2. Build the Project	3. Test the Project	4. Code Quality Test	5. Code Quality Build	6. Publish Report	7. Dockerize the project
Average stage times: (Average full run time: ~1min 46s)	9s	17s	8s	4s	9s	19s	1min 28s
#5 Mar 02 16:01 No Changes	11s	16s	8s	4s	10s	21s	44s

Containers

Images

Volumes

Builds NEW

Dev Environments BETA

Docker Scout

Extensions

Add Extensions

Search for images, containers, volumes, extensions... Ctrl+K

Sign in

festive_bartik

myproject:latest

f76738a7efbb

STATUS
Running (1 second ago)

Logs   Inspect   Bind mounts   Exec   Files   Stats

```
2024-03-02 16:17:52 info: Microsoft.Hosting.Lifetime[14]
2024-03-02 16:17:52       Now listening on: http://[::]:8080
2024-03-02 16:17:52 info: Microsoft.Hosting.Lifetime[0]
2024-03-02 16:17:52       Application started. Press Ctrl+C to shut down.
2024-03-02 16:17:52 info: Microsoft.Hosting.Lifetime[0]
2024-03-02 16:17:52       Hosting environment: Production
2024-03-02 16:17:52 info: Microsoft.Hosting.Lifetime[0]
2024-03-02 16:17:52       Content root path: /App
```