User Guide

WEBBISKOOLS QUIZ MANAGER

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OVERVIEW

This web application has been designed to allow users to create, read, update, and delete quizzes and their containing questions and answers. You must have a pre-existing account to login and use the web application.

PREREQUISITES

In order to run the web application, you will need the following:

- .NET Core 3.0 SDK
- Google Chrome
- Windows operating system

RUNNING THE APPLICATION

1. Open the project folder and double-click on **RunApplication.bat** to start the web application.

Name	Date modified	Type	Size
.git	07/11/2019 14:36	File folder	
.vs	04/11/2019 14:03	File folder	
Documentation	07/11/2019 14:38	File folder	
WebbiSkools.QuizManager.FunctionalTests	07/11/2019 12:59	File folder	
WebbiSkools.QuizManager.Tests	06/11/2019 18:08	File folder	
WebbiSkools.QuizManager.Web	07/11/2019 14:34	File folder	
.gitignore	04/11/2019 15:20	Text Document	7 KB
RunApplication.bat	07/11/2019 14:26	Windows Batch File	1 KB
RunApplicationDev.bat	07/11/2019 14:31	Windows Batch File	1 KB
RunTests.bat	07/11/2019 14:30	Windows Batch File	1 KB
WebbiSkools.QuizManager.sln	04/11/2019 15:20	Visual Studio Solu...	3 KB

Figure 1: RunApplication.bat file location

2. Access the web application by opening a browser and navigating to https://localhost:5001.

Your connection is not private

Attackers might be trying to steal your information from **localhost** (for example, passwords, messages or credit cards). Learn more

NET::ERR_CERT_AUTHORITY_INVALID

Advanced   Back to safety

Figure 2: Navigating to https://localhost:5001

3. Click the **Advanced** button and then click the "Proceed to localhost (unsafe)" link.

Your connection is not private

Attackers might be trying to steal your information from **localhost** (for example, passwords, messages or credit cards). Learn more

NET::ERR_CERT_AUTHORITY_INVALID

Hide advanced   Back to safety

This server could not prove that it is **localhost**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

Proceed to localhost (unsafe)

Figure 3: Navigating past "connection is not private" warning

4. You should now see the first page of the web application.

Figure 4: Quiz Manager homepage

1. Run the application in development mode by double-clicking on the **RunApplicationDev.bat** file in the project folder.

Figure 5: RunApplicationDev.bat file location

2. Double-click on **RunTests.bat** to run the test suite.

Figure 6: RunTests.bat file location

The script first runs all the unit tests and the result can then be seen in the command line window.

The script will then begin opening multiple instances of the Google Chrome browser as it runs each functional test. Once all functional tests have finished running, the result can then be seen in the command line window.

Once you have read the results of the unit and functional tests, you can close the command line window by pressing any key.
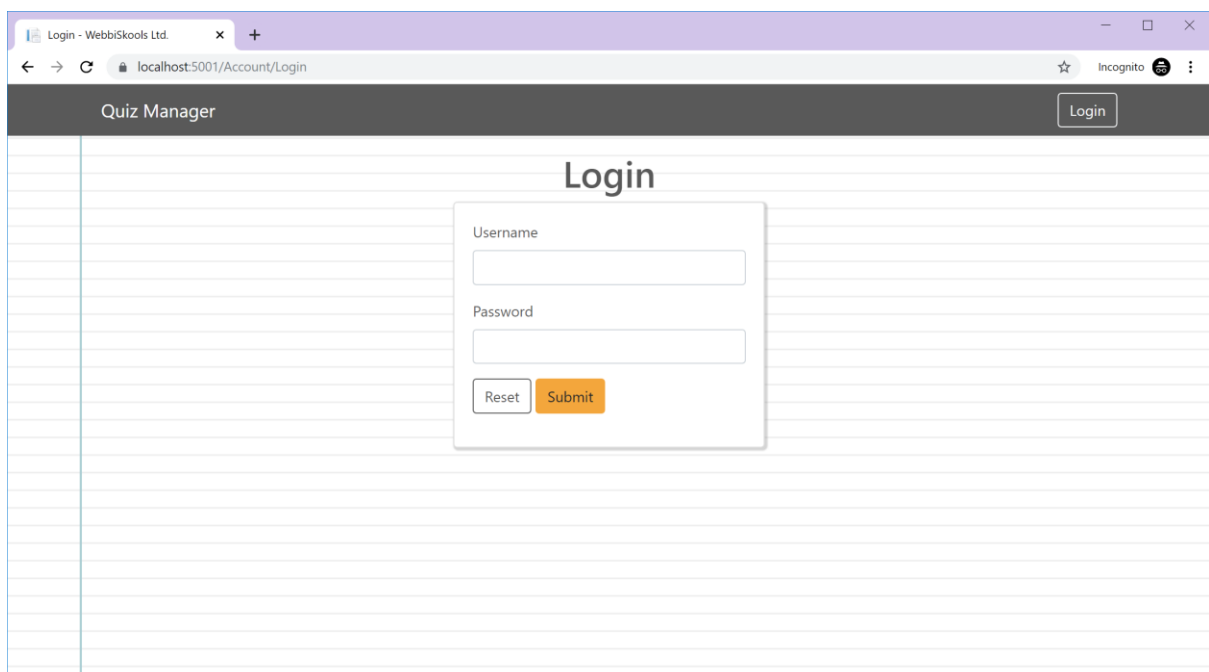
USING THE APPLICATION

Users are given one of three permission levels, restricted, view or edit. There are test accounts for each of these permission levels already added into the database for you to use. The details for each of these are below.

Permission Level	Username	Password
Restricted	RestrictedPermissionsUser	password
View	ViewPermissionsUser	password
Edit	EditPermissionsUser	password

To log in to one of these accounts, navigate to https://localhost:5001. This will take you to the login page where you can fill in your username and password. Note that the username is not case sensitive. Upon successful login, you will be redirected to the list of all available quizzes.

Figure 9: Login page

Providing you are logged in to an account, the **Login** button will be replaced with a **Logout** button. Clicking this button will sign you out of that user account and redirect you back to the Login page. If you are unable to see this button it is likely the screen size of the device you are browsing on is too small. In this case, click on the button with three horizontal lines in the top right-hand corner to show the **Logout** button.
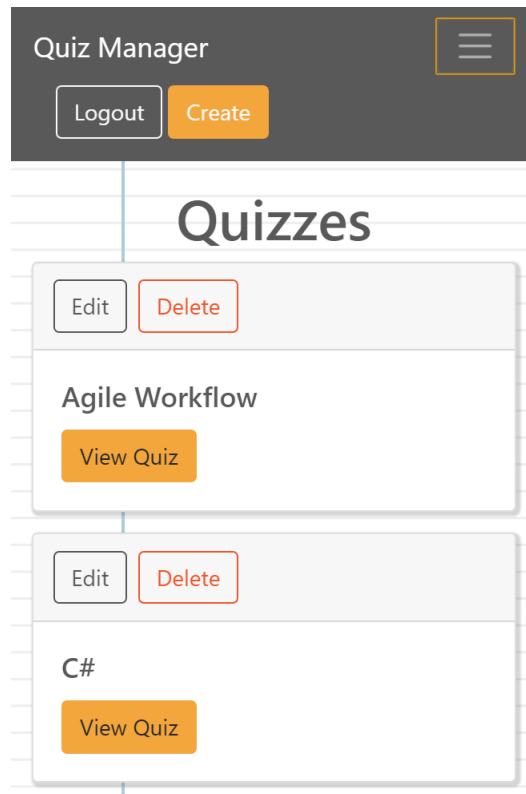
Figure 10: Logout button

VIEWING A QUIZ

To view a quiz, click on the **View Quiz** button of the particular quiz you'd like to view. You will be redirected to a page that displays all the questions within that quiz.
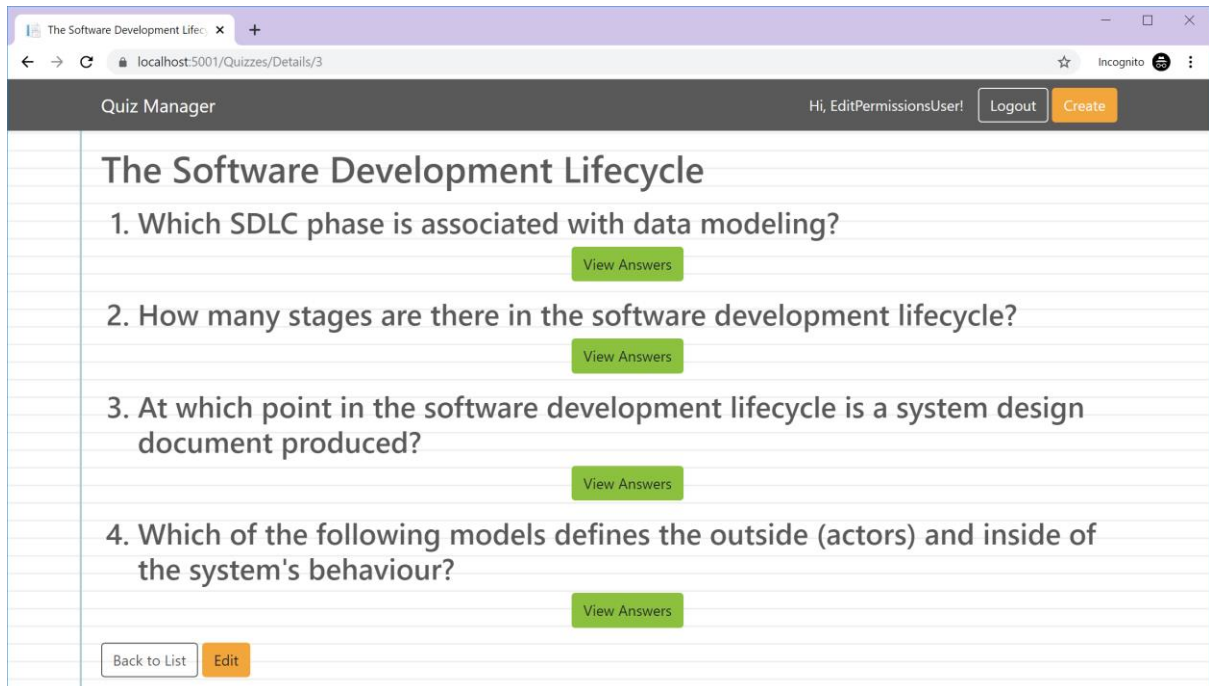

Figure 11: View quiz

If you are logged in as a user that has the View or Edit permission level then you will also see a button underneath each question labelled **View Answers**. Click the **View Answers** button to reveal the possible answers to each quiz. Users with the Restricted permission level will not see this button and will not be able to view the possible answers for each question.

CREATING A QUIZ

To create a quiz, you must be logged in as a user with the Edit permission level. Once you are logged in as a user with the Edit permission level you will see a new button in the top right-hand corner of the page labelled **Create**. If you are unable to see this button it is likely the screen size of the device you are browsing on is too small. In this case, click on the button with three horizontal lines in the top right-hand corner to show the **Create** button.
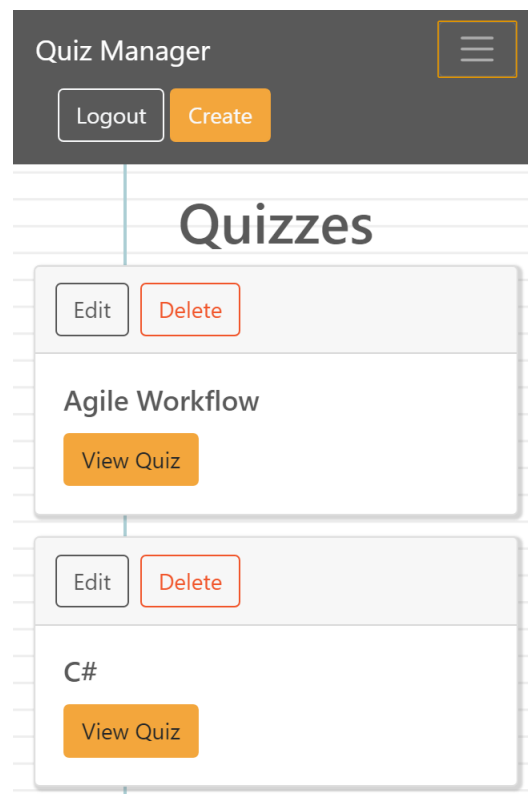

Figure 12: Create button

You will be presented with a form asking for the quiz's title, a question and at least three answers. You can add a question by clicking on the **Add Question** button. This will add another question box and three answer boxes. This button can be used to add a question in between two existing questions if needed. If you want to add an answer to a question you can click the **Add Answer** button. This will add a blank answer to the end of the list of answers for that question. You can only have a maximum of five answers for any one question.

Figure 13: Create quiz

If you want to delete a question, you can do so by clicking its corresponding **Delete Question** button. This will remove the question and its associated answers. Each answer will also have a corresponding **Delete Answer** button. This will remove the associated answer. You can only delete answers if there are more than three answers for that particular question.

To save the quiz click the **Submit** button. This will add the quiz to the database and redirect you back to the list of available quizzes where you should now see your newly created quiz. You can now view that quiz and its associated questions and answers by clicking on its **View Quiz** button.

EDITING A QUIZ

To edit a quiz, you must be logged in as a user with the Edit permission level. Once you are logged in as a user with the Edit permission level you will see a button labelled **Edit** above every quiz on the list of quizzes page. Once you click this button you will be redirected to the edit quiz page.

Figure 14: Edit quiz

You will be presented with a form similar to the one you saw when creating a quiz, except this one will be populated with the values from the quiz you have selected. From here you can add questions, add answers, delete questions, and delete answers the same way you do when creating a quiz.

DELETING A QUIZ

To delete a quiz, you must be logged in as a user with the Edit permission level. Once you are logged in as a user with the Edit permission level you will see a button labelled **Delete** above every quiz on the list of quizzes page. Once you click this button you will be redirected to the delete quiz page.
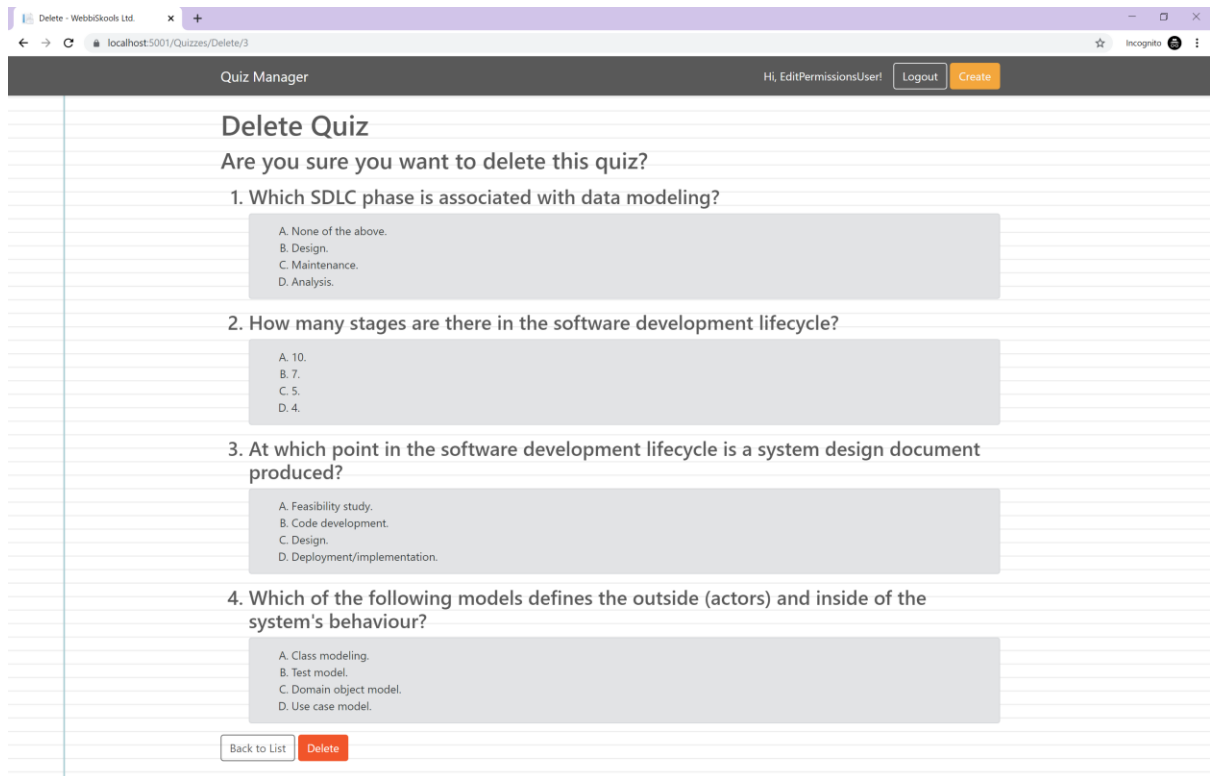
The delete quiz page will show you the quiz and its associated questions and answers with a message asking you to confirm that you want to delete the quiz. Once you are happy for the quiz to be deleted, click the **Delete** button at the bottom of the page. The quiz will be removed from the database and you will be redirected to the list of quizzes page where you will no longer see the quiz you have just deleted.