Made by: Georgi Zhizgov

Test plan

Individual track Assignment

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# Back end testing

When testing the back end three parts should be kept in mind- API layer, Service layer and entities.

Entities and Service require Unit test using Mockito. Using Mockito we can add the annotation @Mock to the repository interface, which is extended by the JPA repository, and create a mock class of it.

When we add @InjectsMockito to the Service we make the service class use the mocked repository class.

On the other hand, the API layer should also be tested if sending and getting the right information with the HTTP request. What we need to use is Spring Mvc testing, which is compatible with Mockito.

# Front end testing

Front end testing will be done using Cypress.

The benefit of it Is that it is a package which can be downloaded for seconds and It provides E2E testing, which go through all the components and test it as a real-life user. It is also connected to the actual back end and database which is different from the back end testing because the data in the back end for testing is mocked.

# Test cases for US-1,2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- condition | Test Data | Expected Result |
| TC-1 | US -1,2 | Log in with correct credentials | Web Application is started | Email:  ga  @abv.bg  Password: 1234 | Confirmation of successful log in and Redirect To Home Page |
| TC-2 | US -1,2 | Log in with wrong credentials | Web Application is started | Email:  ga  @abv  Password: 1234 | System prompts that the input credentials are wrong |
| TC-3 | US -1,2 | Log in by entering only username | Web Application is started | Email: gzhizgov@abv.bg | System prompts that there is no password entered, which is required |
| TC-4 | US -1,2 | Log in by entering only password | Desktop Application is started | Password: 1234 | System prompts that there is no email entered, which is required |

# Test cases for US -3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-5 | US -3 | Register successfully | Web App  Should be loaded | Use your personal  Information to register | Redirect To Log In Page |
| TC-6 | US -3 | Register with already existing data | Web App should be loaded | Enter the same data as in the registration before(enter the same email) | The system prompts that the registration failed |
| TC-7 | US -3 | Register with missing data | Web App should be loaded | Enter all the data except one or two or more details | The system prompts that there is missing important information |

# Test cases for US -4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-8 | US -4 | See all destinations | Web app should be loaded |  | The system shows all the destinations |

# Test cases for US -5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-9 | US -5 | See top 5 visited destinations | Web app should be loaded |  | The system shows all the destinations |

# Test cases for US -6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-10 | US -6 | Update destination successfully | Desktop app should be loaded | Select an destination from the list box | The system prompts that the tournament was successfully updated |
| TC-11 | US -6 | Update destination  Without selecting one | Desktop app should be loaded | No data | The system prompts that no tournament has been selected |

# Test cases for US -7

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-12 | US -7 | Modify personal information | User should be logged in as a Customer | Change a letter in your name | The system prompts that information has been successfully updated. |

# Test cases for US -8

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-13 | US -8 | Delete a destination successfully | User should be logged as an Admin | Select a destination and press on button delete. | The system prompts that destination is deleted |

# Test case for US-10

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-14 | US -10 | Create a destination successfully | User should be logged as an Admin | Name: “Student Hotel”,  Location: “Eindhoven centraal”,  Price per night: 80 | The system prompts that the destination has been successfully created |
| TC-15 | US -10 | Create a destination with missing information | User should be logged as an Admin | Name: “Student Hotel”,  Location: “Eindhoven centraal”,  Price per night: | The system prompts that you cannot proceed while there is missing information |
| TC-16 | US -10 | Create the destination with the same name and location as the first one | User should be logged as an Admin | Name: “Student Hotel”,  Location: “Eindhoven centraal”,  Price per night: 85 | The system prompts that there is already a destination with the same name and location |

# Test case for US-11

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | US | Name | Pre- Condition | Test Data | Expected result |
| TC-17 | US -11 | Create a reservation successfully | User should be logged as an Customer | Start Date: set it one month from today ,  End Date: two days after start date,  Guests:1 | The system prompts that the destination has been successfully created |