MyTaxiService

Integration Test Plan Document

Software Engineering 2

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Contents

1. Introduction

1.4 Definitions	
Keywords	Definition
User	someone, who is going to use our application.
System	our application

1.5 Reference Documents	
RASD	Requirements Analysis and Specification Document
Design Document	Design Document which made by our team
Verification and Validation	12th topic in our Software Engineering 2 Lecture related to Verification part 2 (how to test the system)

2. Test Plan

2.1 General Approach

In order to test our project, we have concluded to create a manual test for each functionality and use also few automated tests. The performed tests will check the match between our application and the specifications written in requirements document.

2.2 Environment

We use test cases to be sure about our application stability. To perform this task we decide to use **Junit**. It is a simple Java tool that allows us to write an understandable and easy manner the unit tests.

2.3 Features to be tested

We are going to test below features of our system.

- Registration

- Login/Logout

- New order

- Cancelling order

- Update Profile

- Notify users

- Payment action

2. Test Plan

2.4 Test case report template

Test Case ID	The ID or the number of Test Case
Test Case Description	Description of the test case
Actors Involved	The actors of this Test Case
Preconditions	The state of the system at the time the test starts
Main Path	List of steps that need to be applied for this Test Case
Expected Result	The user should be registered.
Conclusion	Successful

3. Test cases

3. 1 Registration (with all fields filled in right)

Test Case ID	TC1
Test Case Description	Registration with all fields filled in right
Actors Involved	System,User
Preconditions	
Main Path	_ The user opens the web page or mobile application _ The system shows the Home page to user. _ The user clicks on "Register" button. _ The system shows the form page to user. _ The user fills the form. _ The user clicks on "submit" button.
Expected Result	The user should be registered.
Conclusion	Successful

Figure 1. Registration

3. Test cases

3. 1 Registration. (not filled in right)

Test Case ID	TC2
Test Case Description	Registration with all or some fields not filled in right
Actors Involved	System, User
Preconditions	
Main Path	• The user opens the web page or application • The system shows the Home Page to user. • The user clicks on "Register" button. • The system shows the form page to user. • The user fills the form. • The user clicks on "submit" button.
Expected Result	The user should not be registered and a notification about missed information should appear.
Conclusion	Successful

Figure 2. Registration

3. Test cases

3. 1 Registration (with already used email)

Test Case ID	TC3
Test Case Description	Registration with already used email
Actors Involved	System, User
Preconditions	
Main Path	• The user opens the web page or application • The system shows the Home Page to user. • The user clicks on "Register" button. • The system shows the form page to user. • The user fills the form. • The user clicks on "submit" button.
Expected Result	The user should not be registered and a notification about already used e-mail should appear
Conclusion	Successful

Figure 3. Registration

3. Test cases

3. 1 Registration (with wrong password)

Test Case ID	TC4
Test Case Description	Registration with wrong password confirmation
Actors Involved	System, User
Preconditions	
Main Path	- The user opens the web page or application - The system shows the Home Page to user. - The user clicks on "Register" button. - The system shows the form page to user. - The user fills the form. - The user clicks on "submit" button. .
Expected Result	The user should not be registered and a notification about wrong password should appear
Conclusion	Successful

Figure 4. Registration

Figure 3. User «Administrator» Use Cases

3. Test cases

3. 2 Login/Logout (with all fields filled in right)

Test Case ID	TC5
Test Case Description	Logging with all elds lled in right
Actors Involved	System, User
Preconditions	The user must be registered
Main Path	- The user opens the web page. - The system shows the Home page to user. - The user enters his email and password in the input form. - The user clicks on "Login" button.
Expected Result	The user should be logged in
Conclusion	Successful

Figure 5. Login/logout

3. Test cases

3. 2 Login/Logout (with wrong login name)

Test Case ID	TC6
Test Case Description	Login to the system with wrong login name
Actors Involved	System, User
Preconditions	The user must be registered
Main Path	• The user opens the web page or mobile app. • The system shows the Home page to user. • The user enters his email address and password in the form • The user clicks on "Login" button.
Expected Result	The user should not be logged in and as a result will get error message "wrong e-mail address or password"
Conclusion	Successful

Figure 6. Login/logout

3. Test cases

3. 2 Login/Logout (with wrong password)

Test Case ID	TC7
Test Case Description	Login to the system with wrong password
Actors Involved	System, User
Preconditions	The user must be registered
Main Path	• The user opens the web page or mobile app. • The system shows the Home page to user. • The user enters his email address and password in the form • The user clicks on "Login" button.
Expected Result	The user should not be logged in and as a result will get error message "wrong e-mail address or password"
Conclusion	Successful

Figure 7. Login/logout

3. Test cases

3. 2 Login/Logout (Logout)

Test Case ID	TC8
Test Case Description	Logging in with wrong password
Actors Involved	System, User
Preconditions	The user must be registered and must be logged in
Main Path	The user clicks on the logout button.
Expected Result	The user should not be logged in
Conclusion	Successful

Figure 8. Login/logout

3. Test cases

3. 3 New Order (New order without registration)

Test Case ID	TC9
Test Case Description	New order without registration
Actors Involved	System, User
Preconditions	There is no any preconditions
Main Path	- The user opens the web page or application - The system shows the Home Page to user. - The user click on "new order" button
Expected Result	When user will try to create an order without registration the system prompt back error message «please sign in»
Conclusion	Successful

Figure 9. New Order

3. Test cases

3. 3 New Order (with all fields filled in right)

Test Case ID	TC10
Test Case Description	Creating a new order with all fields filled in right
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	• The user clicks on "order taxi" button • The system loads event creation page • The user fills the field with required information • The user clicks on "order" button
Expected Result	The new order should be created
Conclusion	Successful

Figure 10. New Order

3. Test cases

3. 3 New Order (with all or some fields not filled in right)

Test Case ID	TC11
Test Case Description	Creating a new order with all or some fields not filled in right
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	- The user clicks on "order taxi" button - The system loads event creation page - The user fills the field with required information - The user clicks on "order" button
Expected Result	The new order should not be created and notification about wrong inputs should appear
Conclusion	Successful

Figure 11. New Order

3. Test cases

3. 3 New Order (without filling all compulsory fields)

Test Case ID	TC12
Test Case Description	Creating a new order without filling all compulsory fields
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	• The user clicks on "order taxi" button • The system loads event creation page • The user fills the field with required information • The user clicks on "order" button
Expected Result	The new order should not be created and error notification should appear with red marked showing error area
Conclusion	Successful

Figure 12. New Order

3. Test cases

3. 3 New Order (Creating the second order)

Test Case ID	TC13
Test Case Description	Creating the second order before ending or cancelling the first one
Actors Involved	System, User
Preconditions	The user must be logged in and an order already must be created
Main Path	• The user clicks on "order taxi" button
Expected Result	The order should not be created and notification about «an order is already created» should appear
Conclusion	Successful

Figure 13. New Order

3. Test cases

3. 4 Cancel Order

Test Case ID	TC14
Test Case Description	Cancelling order
Actors Involved	System, User
Preconditions	The user must be logged in and an order already must be created
Main Path	• The user creates order • The user clicks on "cancel order" button
Expected Result	The order is cancelled and user will get notification about 10€ penalty
Conclusion	Successful

Figure 14. Cancel Order

3. Test cases

3. 5 Update Profile (with all fields filled in right)

Test Case ID	TC15
Test Case Description	Updating profile with all fields filled in right
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	- The user clicks on profile picture - The system loads personal information page with existing information. - The user updates his information - The user clicks on "save" button
Expected Result	Profile should be updated. Updated fields should be changed
Conclusion	Successful

Figure 15. Update Profile

3. Test cases

3. 5 Update Profile (without filling compulsory fields)

Test Case ID	TC16
Test Case Description	Updating profile without filling compulsory fields
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	• The user clicks on profile picture • The system loads personal information page with existing information. • The user updates his information • The user clicks on "save" button
Expected Result	Profile should not be updated and notification about missed fields should appear
Conclusion	Successful

Figure 16. Update Profile

3. Test cases

3. 5 Update Profile (with wrong password confirmation)

Test Case ID	TC17
Test Case Description	Updating profile with wrong password confirmation
Actors Involved	System, User
Preconditions	The user must be logged in and the order already must be created
Main Path	• The user creates an order • The system sends notification about confirmation and details of order
Expected Result	The new page with notification and invoice should appear
Conclusion	Successful

Figure 17. Update Profile

3. Test cases

3. 6 Notify User (after completing order)

Test Case ID	TC18
Test Case Description	Notify users about confirmation after completing order
Actors Involved	System, User
Preconditions	The user must be logged in and the order already must be created
Main Path	• The user creates new order • The user fills all fields • The user clicks on "order" button • The system shows notification and invoice on new page
Expected Result	New page with notification and invoice should appear
Conclusion	Successful

Figure 18. Notify user

3. Test cases

3.6 Notify User (10 min before taxi arrival)

Test Case ID	TC19
Test Case Description	Notify users 10 minutes before taxi arrival
Actors Involved	System, User
Preconditions	The user must be logged in and the order already must be created
Main Path	• The system sends notification in application and by e-mail
Expected Result	Pop-up message should appear
Conclusion	Successful

Figure 19. Notify user

3. Test cases

3. 7 Payment (with valid credit card)

Test Case ID	TC20
Test Case Description	Perform payment with valid credit card
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	- The user clicks on "order" button - The system shows order creating page - The user fills all field and press on "next" button - The system shows payment page - The user enters payment details and press on "perform payment" button
Expected Result	The order should be created and confirmation should appear
Conclusion	Successful

Figure 20. Payment

3. Test cases

3. 7 Payment (without valid credit card)

Test Case ID	TC21
Test Case Description	Perform payment with invalid credit card
Actors Involved	System, User
Preconditions	The user must be logged in
Main Path	• The user clicks on "order" button • The system shows order creating page • The user fills all field and press on "next" button • The system shows payment page • The user enters payment details and press on "perform payment" button
Expected Result	The order should not be created and notification about invalid payment details should appear
Conclusion	Successful

Figure 21. Payment