LP-II STQA

Mini Project-2

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Date- 29/10/20

Output-

Mini-Project 2:

Create a small web-based application by selecting relevant system environment / platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Narrate scripts in order to perform regression tests. Identify the bugs using Selenium Web Driver and IDE and generate test reports encompassing exploratory testing.

SYSTEM-

BBQHouse- BBQ House is an online web application for a restaurant. Customers can register and login to view the menu, place orders or even book tables for a given date. The user can experience table booking and food ordering facilities while sitting at home. Details about restaurant are also displayed with different branches and history.

1. Features to be tested - (Complete test plan document attached separately)

TEST CASE TABLE- Tests to be executed

Test Case Id	Test Case Name	Objective	Description	Expected Result
SeleniumTest1	LoginTest	To check the login functionality of app	Run the web app to check the login page functionality.	Test case passes on providing valid input and app navigates to Index page
SeleniumTest2	FailedLoginTest	To check the output when incorrect information is entered	Checks for the test data of user in the database.	Login failed
SeleniumTest3	SignupTest	To check the working of signup and registration page	Test explores the sign up page features and validates the data functions.	Successful signup and registration of new user details into the table.
SeleniumTest4	OrderTest	To explore the working of food ordering page	Explores the navigations on ordering page and various features like item selection, final bill calculation.	Successful able to place orders
SeleniumTest5	TableBookingTest	To explore the working of table booking feature of the web app	Explores the navigations on table booking page and features like date selection, number of guests etc	Succesfully able to book a table

			guests etc	
SeleniumTest6	NavigationTest	To check the complete navigation of the app using automated test scripts	Explore the full functionality of the web app from login, ordering to checkout	Smooth working and exploration of the app.
TestSuite1	FinalTestSuite	Test suite which runs all test cases one by one	Run all the tests for the iteration on the Selenium server.	Most of test cases (>85%) passed. Run using Selenium IDE and scripts and report using TestNG.

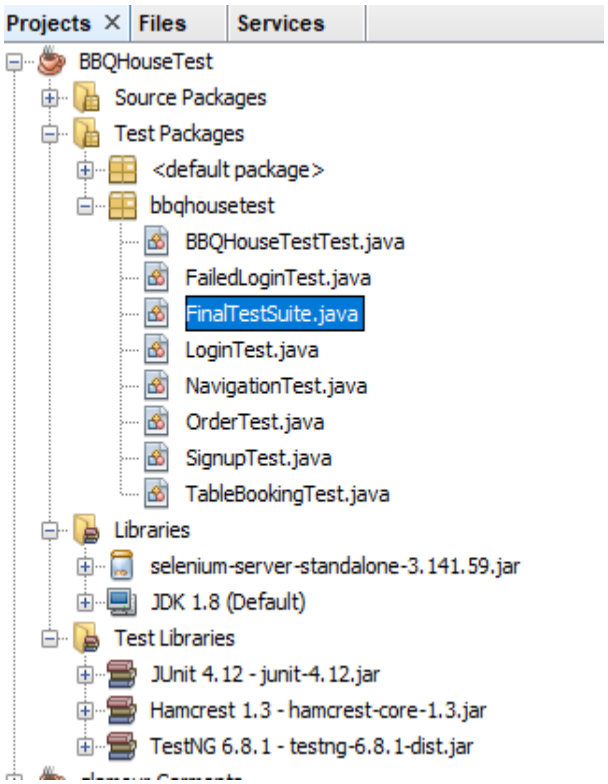
2. Bug taxonomy

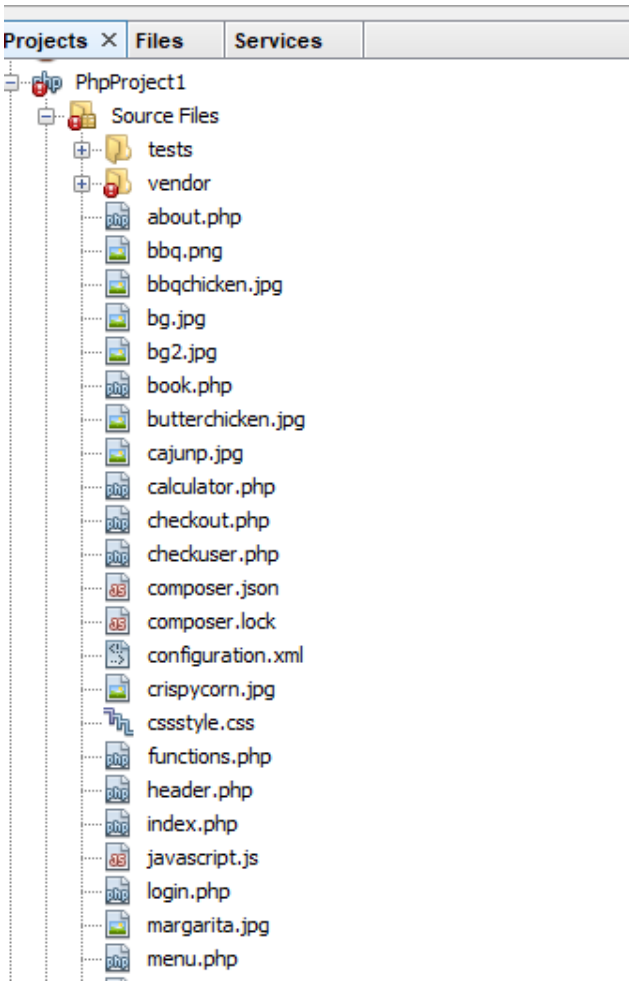
INTERFACE BUGS - Faulty GUI and navigations	Low	Low	Make UI constant so it looks same on different devices. Display of proper error messages. Check Swing component's event action listener code. Make sure that alerts that are opened during navigation are handled properly.
INTEGRATION AND SYSTEM BUGS- Improper system setup	Medium	Medium	Install required JDK version 1.8, JDBC connector. Make sure that ports required for selenium server and apache server are free.
TEST AND TEST DESIGN BUGS- Unsuccessful testing of functionalities	Medium	Medium	Install proper testing tools- Install relevant Chrome drivers, Selenium IDE plugins, Selenium standalone server, TestNG.
Non-availability of Independent Test environment and accessibility	Medium	High	Due to non availability of the environment, the schedule gets impacted and will lead to delayed start of Test execution.
Delayed Testing Due To new Issues	Medium	High	During testing, there is a good chance that some “new” defects may be identified and may become an issue that will take time to resolve. Find a suitable method to run the selenium scripts for the project. PHP export option is not available for newer versions of Selenium IDE, so convert into Java and run tests in a designated test project to explore the web app functionality.

4.2. Test Risks and Mitigation Factors- Bug Taxonomy

Risk	Prob.	Impact	Mitigation Plan
DATA BUGS- User sensitive data loss	High	High	• Delete current user specific cookie data after logout • User should be able to update only his/her data
FUNCTIONALITY BUGS- Buttons fail to access proper data	Medium	High	• Check the connection to database. • Ensure proper functional working through unit tests
CODING BUGS- Database connection failure	Medium	Critical	Ensure proper jdbc connectors are present and database login details are accurate.

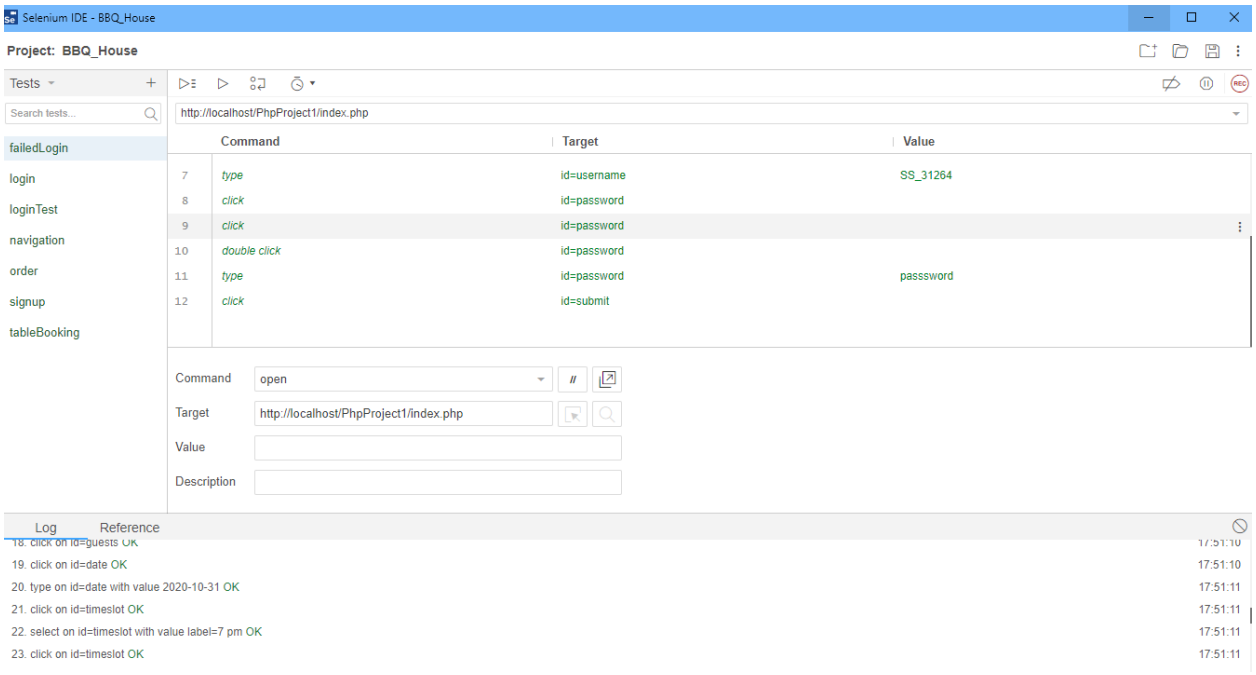
3. Web app code structure



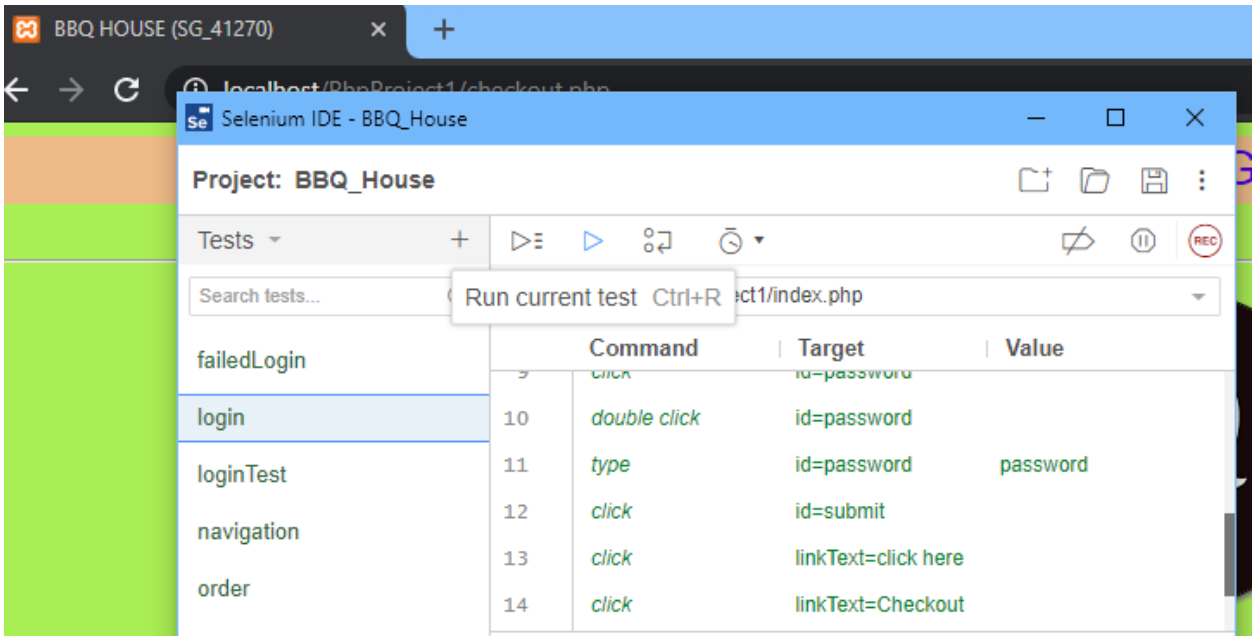


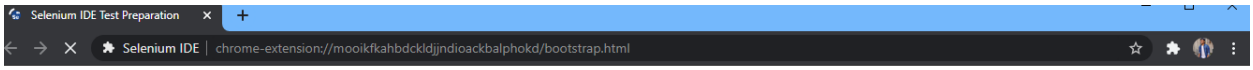
4. Testing-

Selenium IDE for Chrome Browser



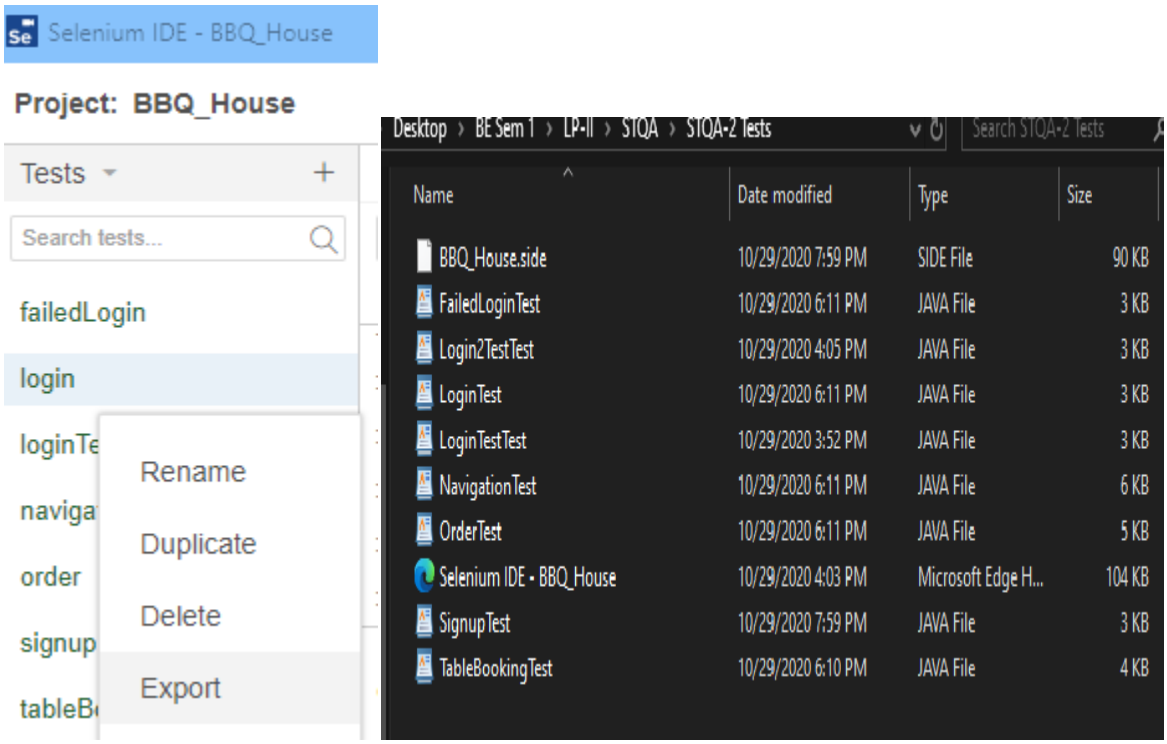
Generate and run Selenium exploratory test





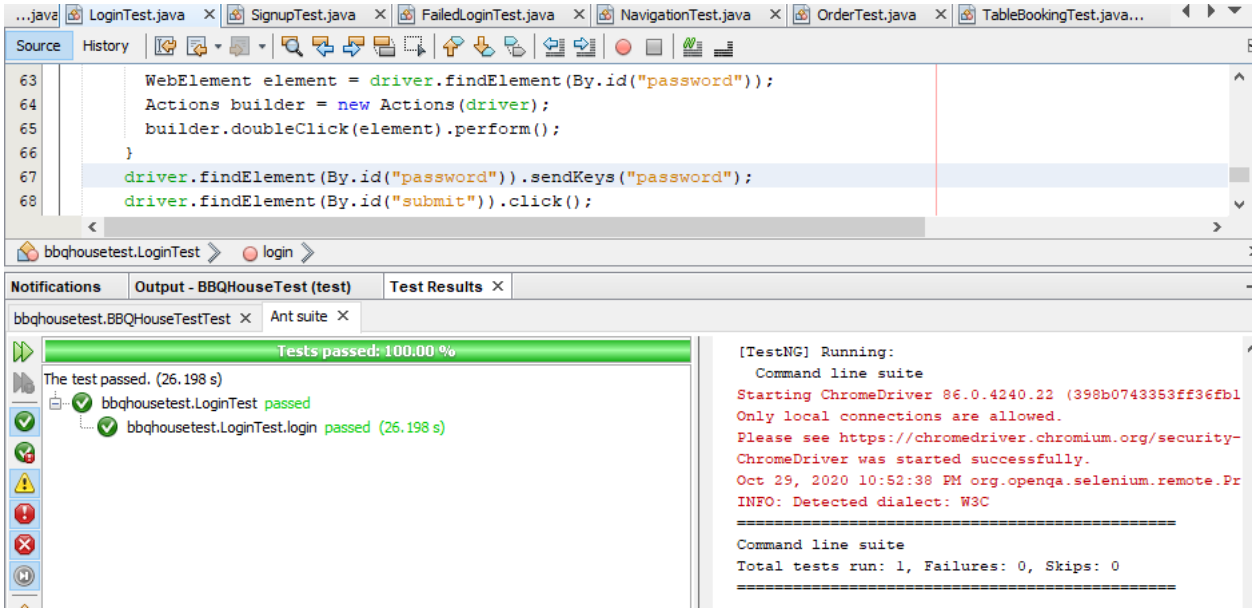
Preparing to run your test

4. Export the test scripts

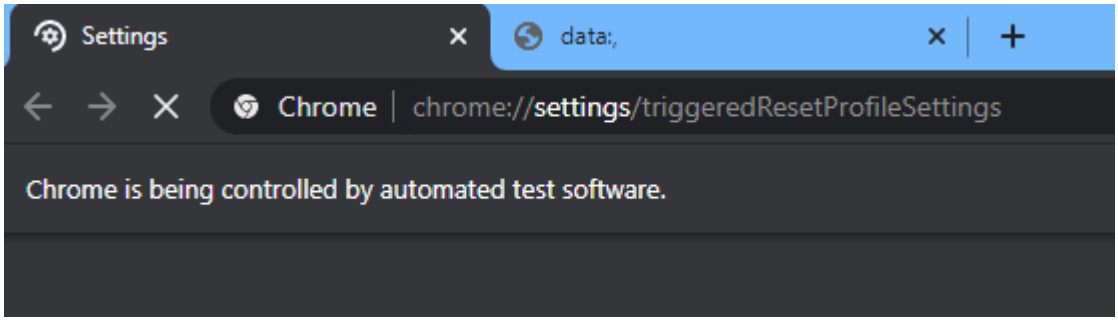


5. Create NetBeans project for regression testing and running selenium scripts on a standalone server

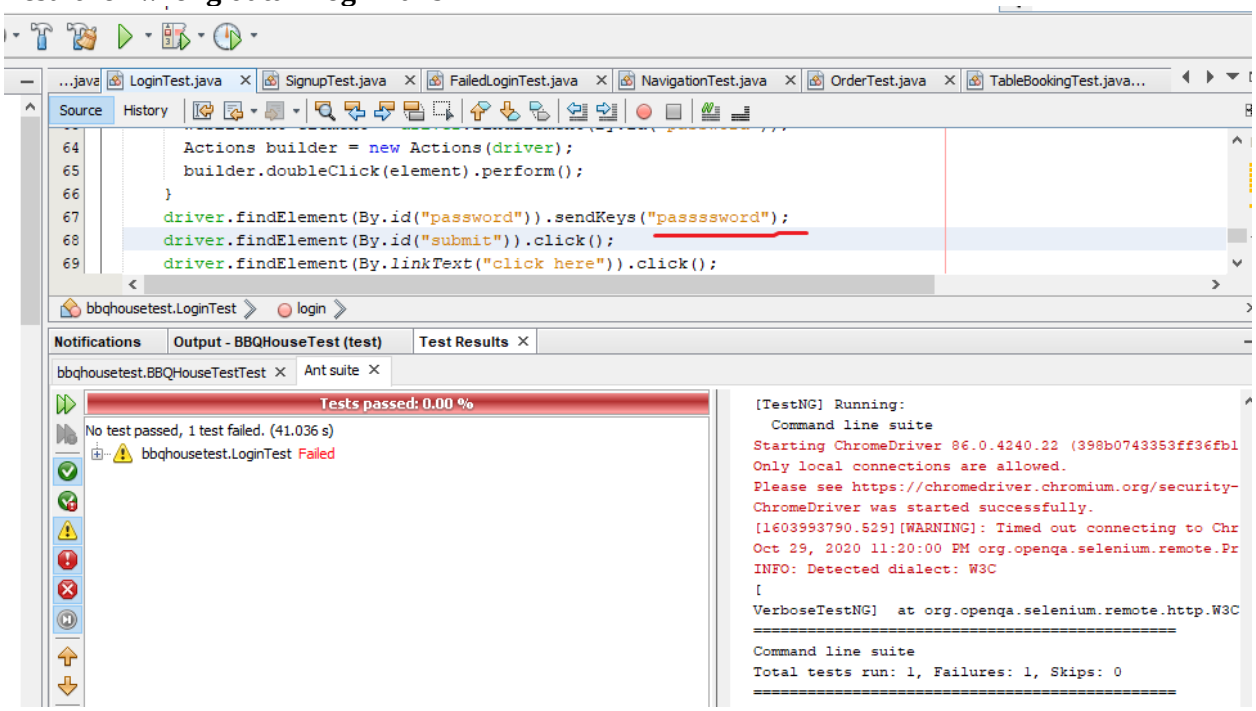
First with generated script



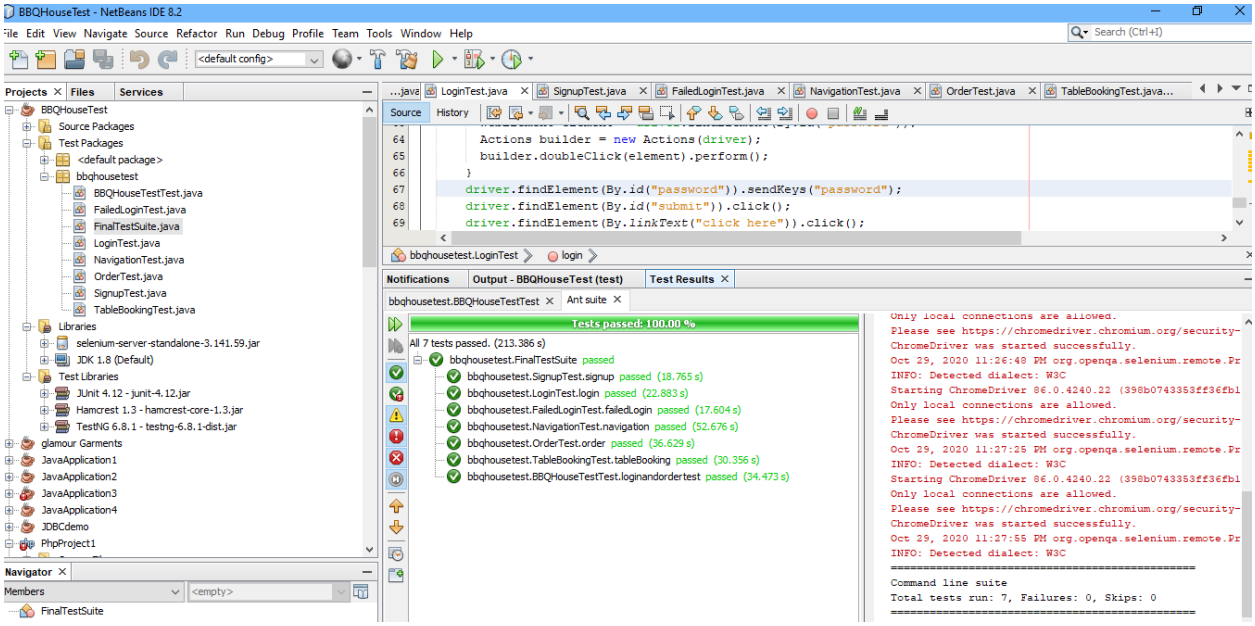
Now regression test by changing code inputs



Result for wrong data- Login fails

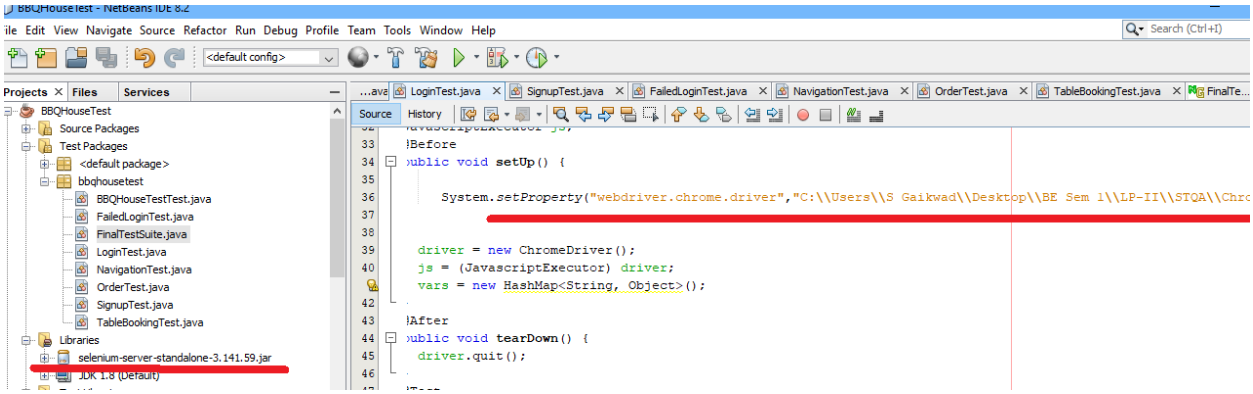


6. Junit/ TestNG test suite- Run all the tests and generate reports - Automated exploratory testing using Selenium



Make sure that selenium-standlone-server jar file is included in library jars.

And also ensure that proper web driver(Chrome or Firefox) is included.



7. Store the TestNG reports in pdf file and Selenium IDE web page.

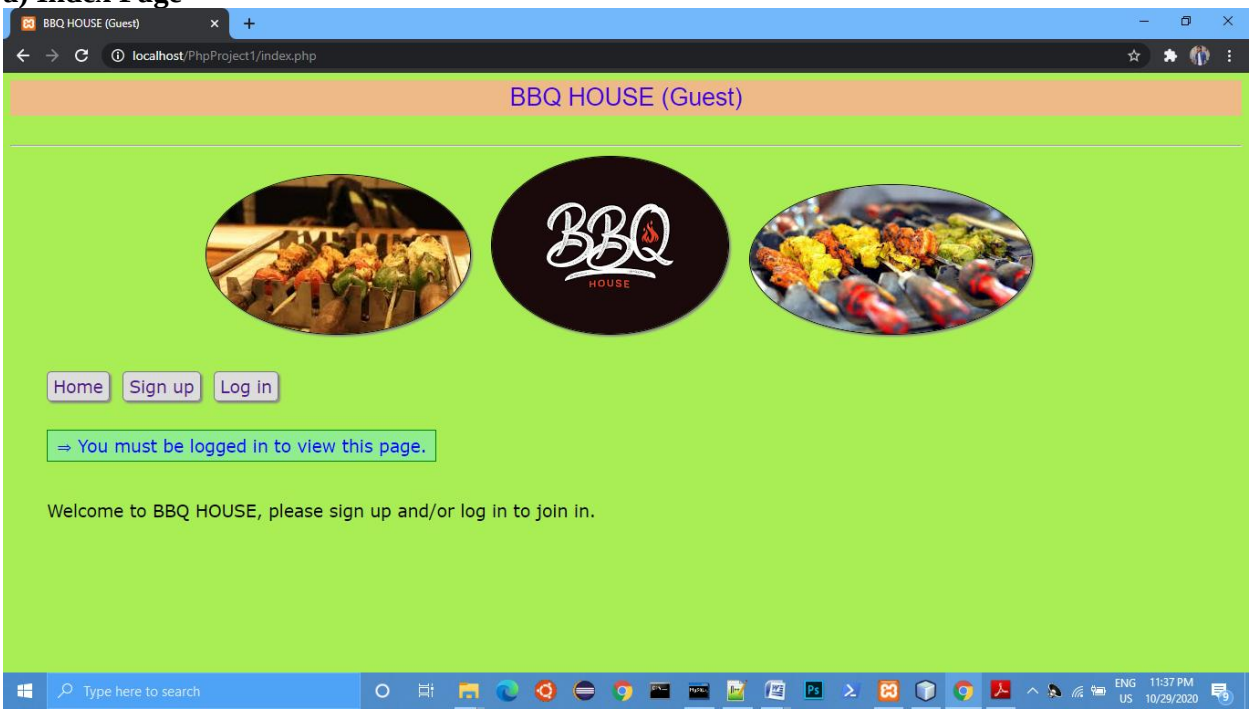
```
[TestNG] Running:
  Command line suite

[VerboseTestNG] RUNNING: Suite: "bbqhousetest.FinalTestSuite" containing
"0" Tests (config: null)
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.SignupTest.signup()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 2615
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:03:17 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.SignupTest.signup() finished in 16775 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.LoginTest.login()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 2385
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:03:32 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.LoginTest.login() finished in 21496 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.FailedLoginTest.failedLogin()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 41264
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:03:54 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.FailedLoginTest.failedLogin() finished in 15785 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.NavigationTest.navigation()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 13697
Only local connections are allowed.
```

```
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:04:09 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.NavigationTest.navigation() finished in 43787 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.OrderTest.order()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 35942
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:04:56 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.OrderTest.order() finished in 32996 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.TableBookingTest.tableBooking()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 28796
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:05:26 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.TableBookingTest.tableBooking() finished in 24078 ms
[VerboseTestNG] INVOKING: "bbqhousetest.FinalTestSuite" -
bbqhousetest.BBQHouseTestTest.loginandordertest()
Starting ChromeDriver 86.0.4240.22
(398b0743353ff36fb1b82468f63a3a93b4e2e89e-refs/branch-heads/4240@{#378})
on port 1080
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Oct 29, 2020 8:05:50 PM org.openqa.selenium.remote.ProtocolHandshake
createSession
INFO: Detected dialect: W3C
[VerboseTestNG] PASSED: "bbqhousetest.FinalTestSuite" -
bbqhousetest.BBQHouseTestTest.loginandordertest() finished in 36844 ms
[VerboseTestNG]
[VerboseTestNG] ===============================================
[VerboseTestNG]     bbqhousetest.FinalTestSuite
[VerboseTestNG]     Tests run: 7, Failures: 0, Skips: 0
```

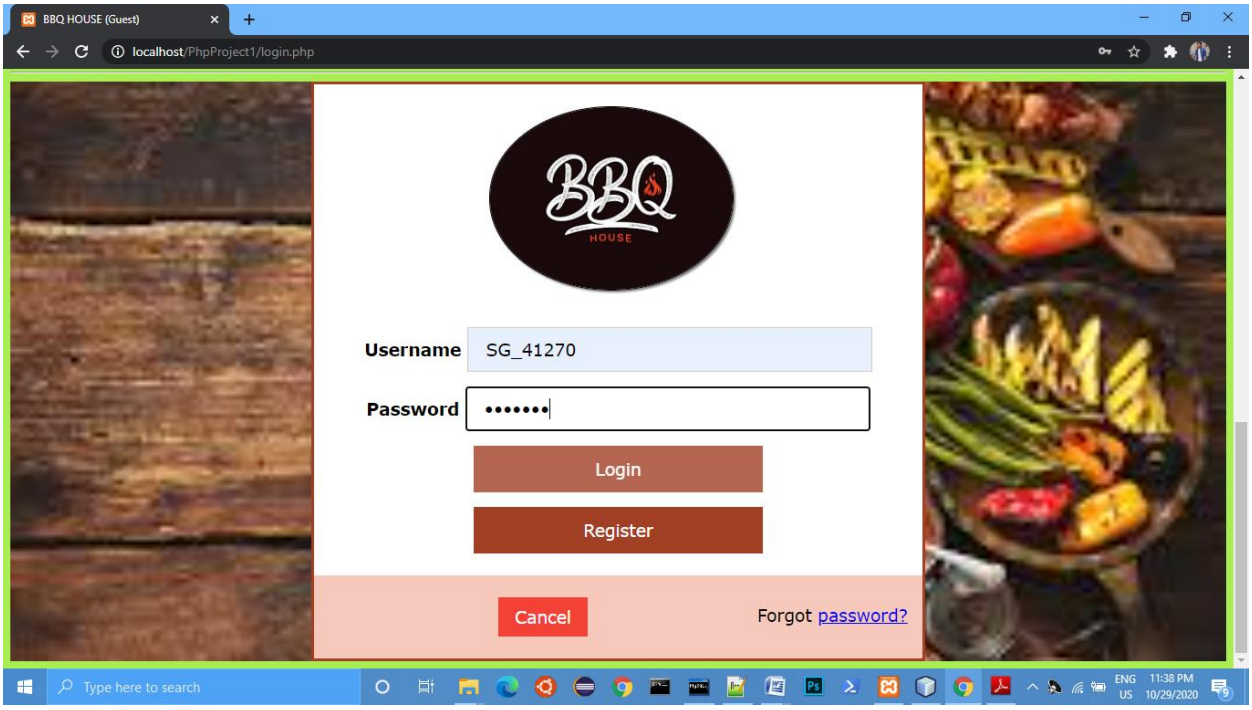
```
[VerboseTestNG] ===============================================

===============================================
Command line suite
Total tests run: 7, Failures: 0, Skips: 0
===============================================

Deleting directory
C:\Users\SGAIHW~1\AppData\Local\Temp\bbqhousetest.FinalTestSuite
test:
BUILD SUCCESSFUL (total time: 3 minutes 13 seconds)
```

Web App working screenshots-

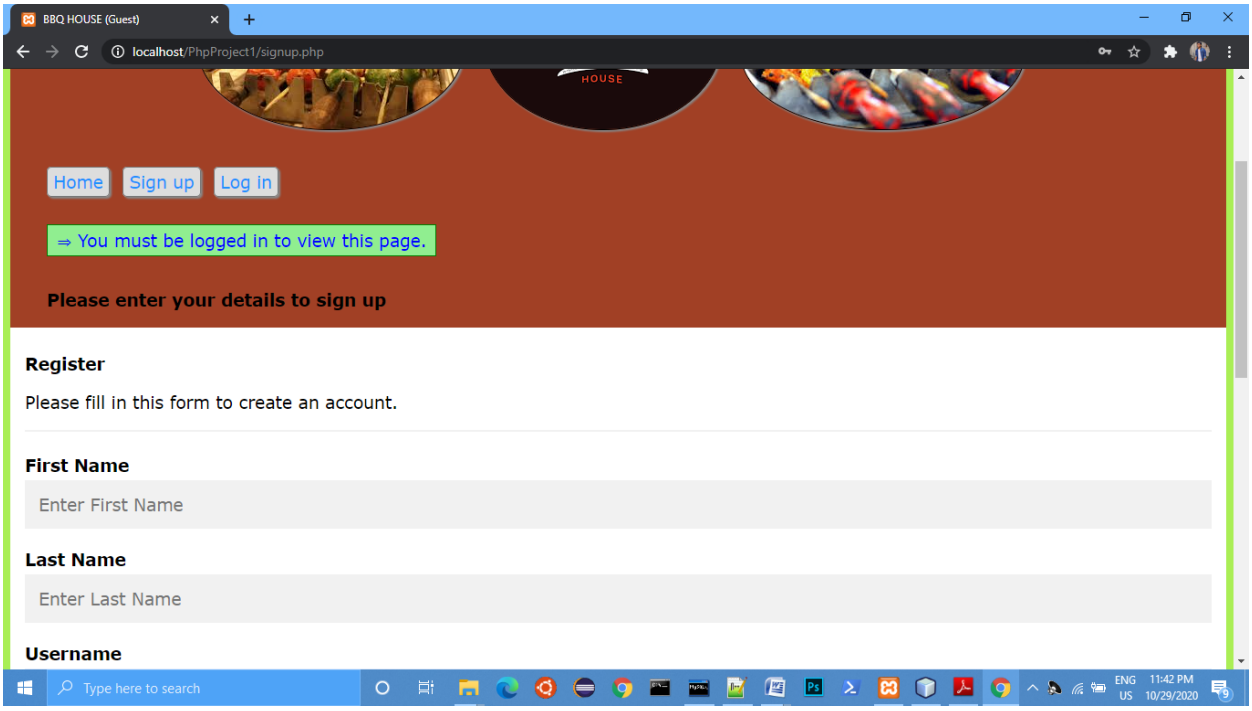
a) Index Page



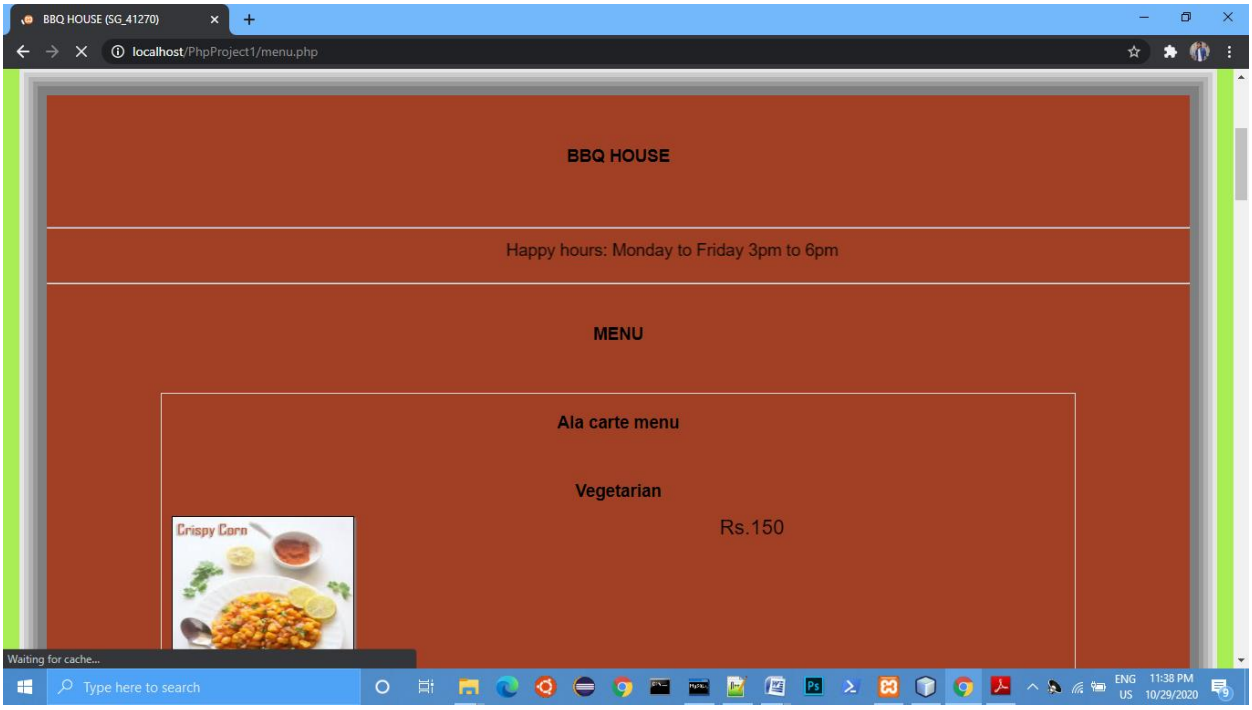
b) Login page



c)Registration page

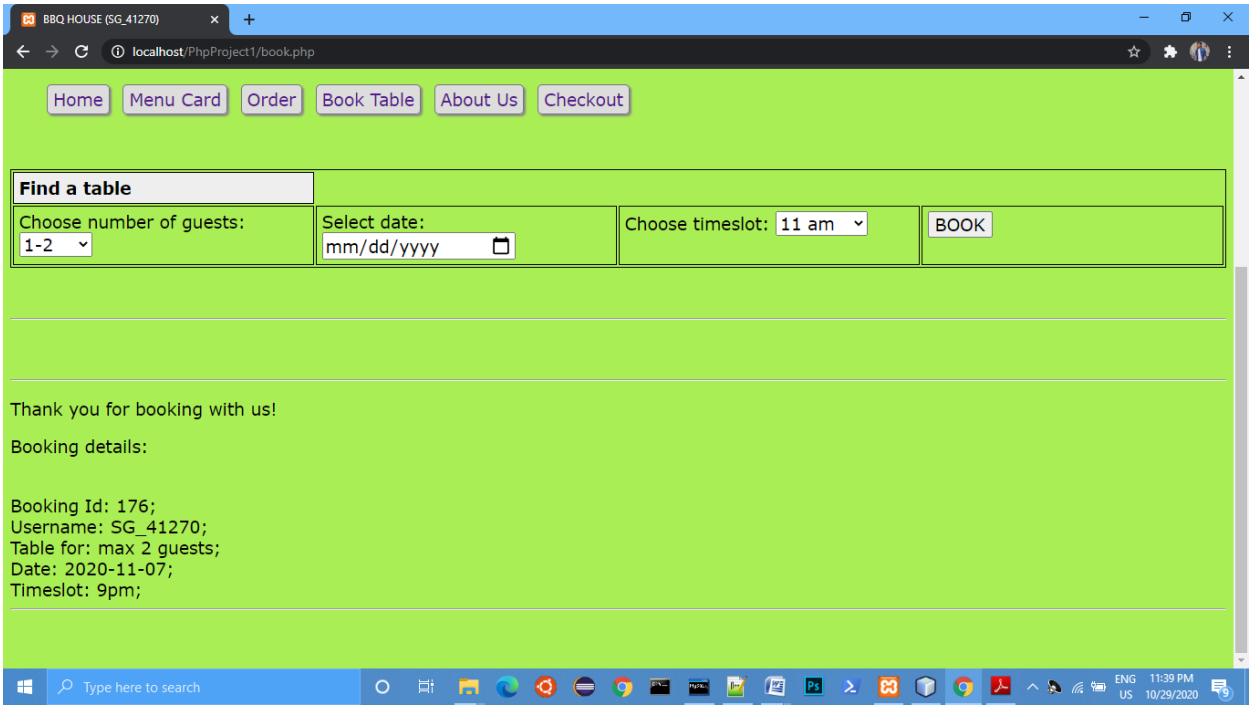


d) Menu page



e) Order page

f)Table booking page



g) About page

BBQ HOUSE (SG_41270)
localhost/PhpProject1/about.php
BBQ House
was founded in 2006 by one of our Promoters. We currently own and operate 138 outlets in India, 5 outlets in UAE, 1 outlet in Malaysia and 1 outlet in Oman. One of the leading casual dining chains in India, Barbeque Nation pioneered the concept of "over the table barbeque" live grills embedded in dining tables – allowing guests to grill their own barbecue's right at their tables. Indian cuisine is a natural part of the diet in the markets in which the Barbeque Nation Restaurants operate. We continue to offer new menu options, both vegetarian and non-vegetarian, largely based on Indian cuisine and use seasonal customer preferences to introduce new dishes. We also run popular food festivals at our Barbeque Nation Restaurants, thereby offering our customers a range of Indian and international cuisines. Our fixed price 'all you can eat' concept at our Barbeque Nation Restaurants offers our customers a varying spread of consistently delicious food at a value-oriented price in a pleasant and casual dining environment. We believe that barbeque cuisine is distinctively attractive as compared with other dining options due to its DIY and cooked-at-the-table nature and the flexibility and fun of mixing and matching a wide variety of meats, vegetables, sauces and condiments to create dishes according to each diner's individual tastes and preferences. In addition, fixed price dining is very popular amongst relatively larger groups, due to customers' perception of value for money and the comfort of certainty over the bill amount irrespective of varying individual appetites and consumption Our Barbeque Nation Restaurants typically offer customers at least five vegetarian and five non-vegetarian largely pre-cooked appetisers they can season and barbeque on a grill embedded in their table, an all-you-can-eat main course buffet and a selection of desserts. Our core values prioritise being customer-focused to provide excellent products and service and employee-focused by maintaining a superior quality work environment. Our Company was ranked 13th among best companies to work for in India across all categories by Economic Times "Great Places to Work" survey for 2019 conducted by Great Places to Work Institute. Our Company was also voted among the top ten employers within the Indian retail industry for 2019 by Great Places to Work and 14th among best large workplaces in Asia by Great Places to Work Institute.
Pimpri-Chinchwad
पिंपरी
चिंचवड
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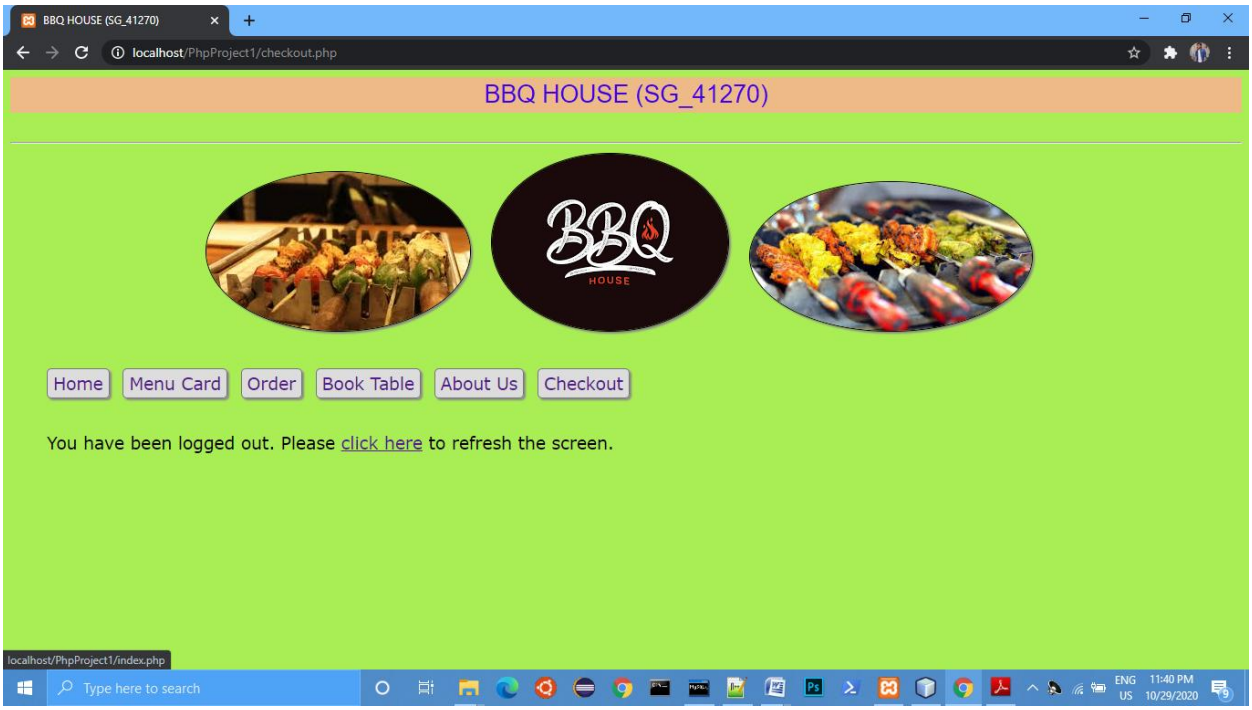
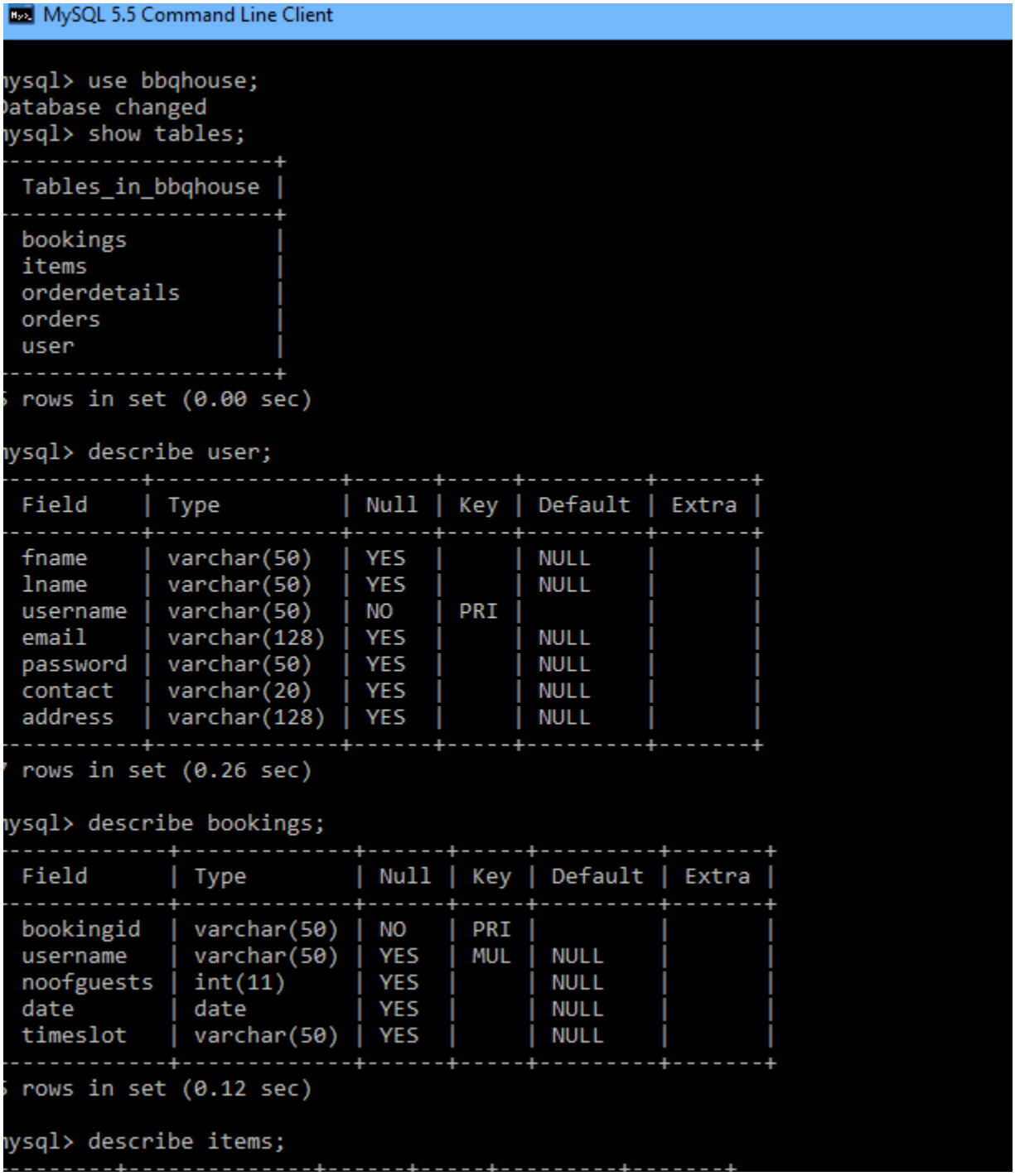
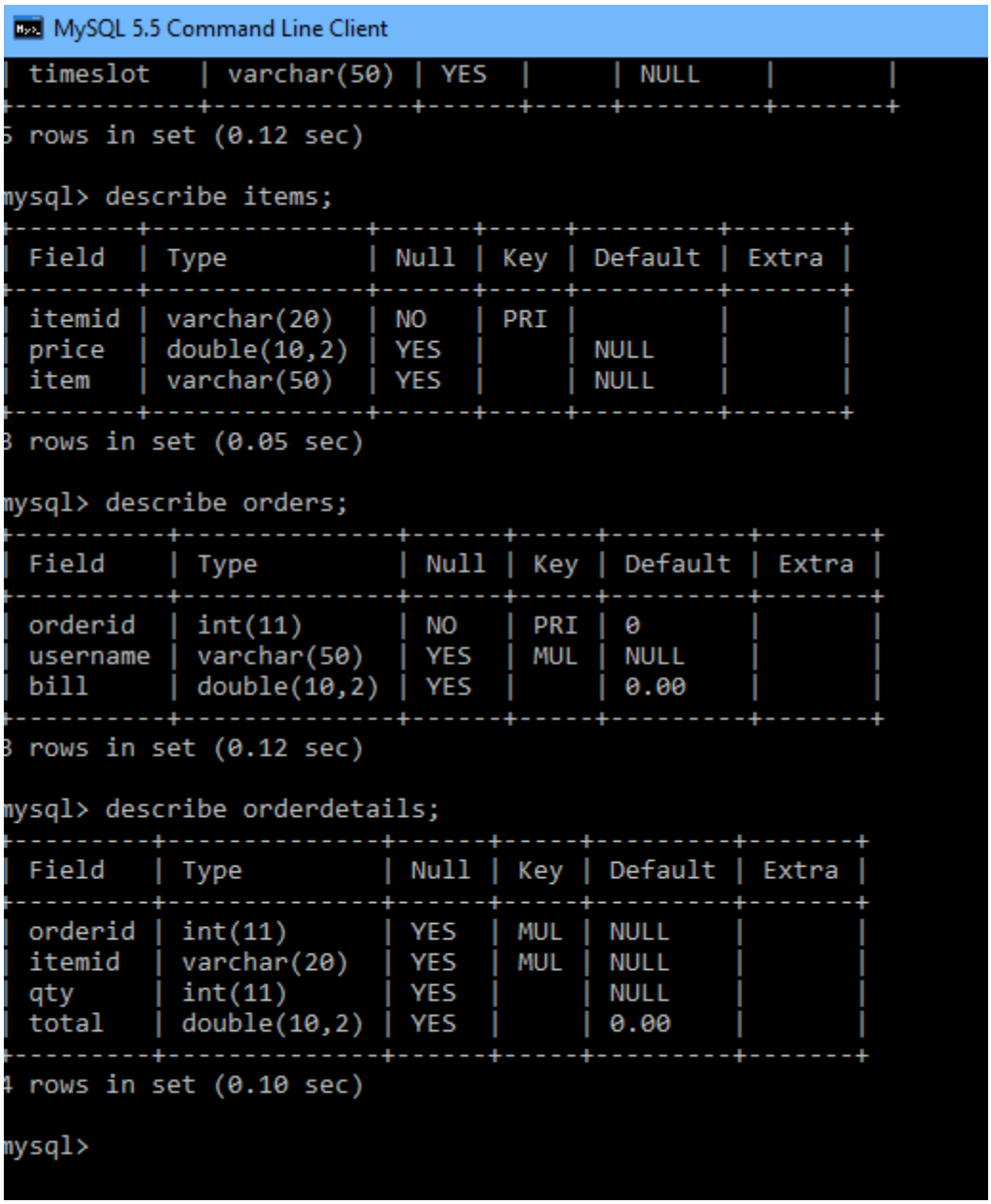
10/29/2020

h) Check out


BBQ HOUSE (SG_41270)
localhost/PhpProject1/checkout.php
BBQ HOUSE (SG_41270)
BBQ
HOUSE
Home
Menu Card
Order
Book Table
About Us
Checkout
You have been logged out. Please click here to refresh the screen.
localhost/PhpProject1/index.php
Type here to search
ENG
US
11:40 PM
10/29/2020

Database Structure-




MySQL 5.5 Command Line Client
| timeslot | varchar(50) | YES | | NULL | |
+----------+-------------+------+-----+---------+-------+
5 rows in set (0.12 sec)
mysql> describe items;
+--------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
itemid	varchar(20)	NO	PRI		
price	double(10,2)	YES		NULL	
item	varchar(50)	YES		NULL	
+--------+-------------+------+-----+---------+-------+
3 rows in set (0.05 sec)
mysql> describe orders;
+----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
orderid	int(11)	NO	PRI	0	
username	varchar(50)	YES	MUL	NULL	
bill	double(10,2)	YES		0.00	
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.12 sec)
mysql> describe orderdetails;
+---------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
orderid	int(11)	YES	MUL	NULL	
itemid	varchar(20)	YES	MUL	NULL	
qty	int(11)	YES		NULL	
total	double(10,2)	YES		0.00	
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.10 sec)
mysql>