# 5.Testing

Testing is the process of evaluating the functionality of an application to check an activity whether the actual and expected results match or not and find out defects to ensure that the software is defects free for long lasting quality. It is the most important stage to completely check from end-to-end before submit this product.

In this project, testing is important that aids to point out defects in my project. There are some points are in below:

* While during the implementation stage sometimes programmer may make a mistake like incorrect coding of an algorithm in complex logical errors. That time testing is really required to point out the error in web-based application.
* It is important that aids to ensure that the quality of the product.
* It aids to find out whether our product is responsiveness or not in devices like smartphone, desktop and web browser like Google Chrome, Firefox etc.
* Sometimes, links are not working properly like clicking on a social icon that we make sure that go to the correct place.

In testing phase there are many types of testing available in below:

1. Unit testing
2. Blackbox testing
3. Whitebox testing
4. Acceptance testing
5. Integration testing
6. Beta testing
7. System testing
8. Functionality testing
9. Usability testing
10. Interface testing

In above there are many testing’s that are available. So, we are going to use only two types of testing are:

## 5.1 Unit Testing

This testing is done during the coding of an application. It is the first level of testing done before different types of testing. Unit testing is done to check every small details of an application separately by developers. It is also known as white box testing and code can be reused. It is easy to manage code with less cost then other type of testing.

In Unit Testing, we are going to testing that our coding is working properly or error free or not in below:

1. **User Register Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test input data** | **Expected result** | **Actual result** | **Result** |
| **1** | User Register Test | Username: John123  Password: Wick12  Address: UAS  Email: john@gmail.com  Phone:9841986532 | User details should be registered in database. | User details successfully inserted without any problems. | Pass |

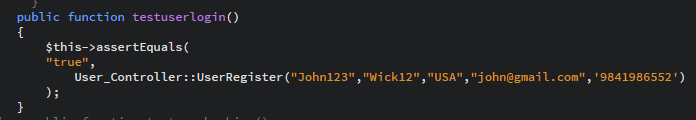


Figure 1:Testing Register User data.

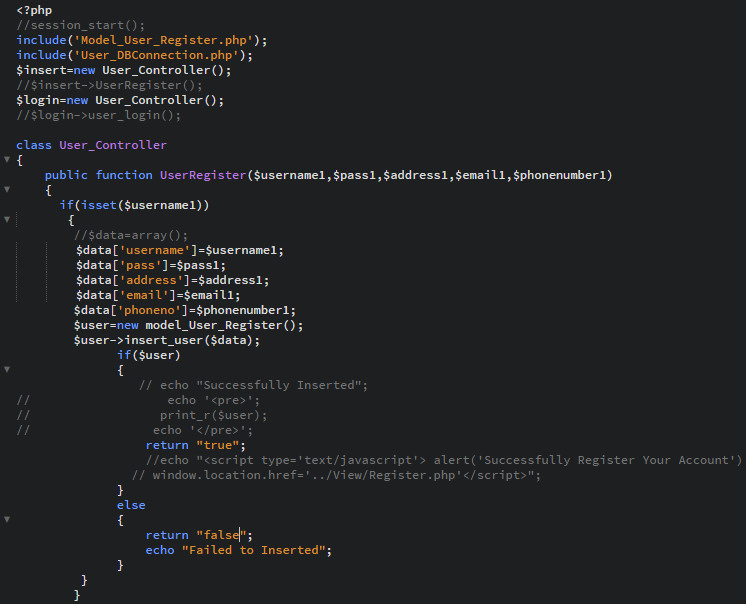


Figure 2:Testing Register user data

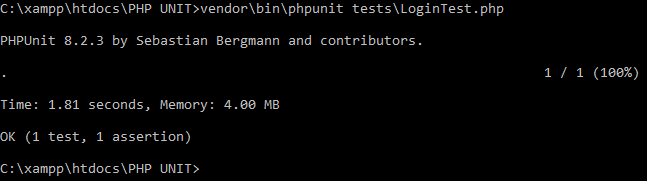


Figure 3:Result of User Register

1. **Login Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test input data** | **Expected result** | **Actual result** | **Result** |
| **2** | User login testing | Username: John123  Password: Wick12 | User should be logged into user dashboard. | User successfully logged into system. | Pass |

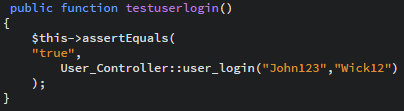


Figure 4:User Login Test



Figure 5:User Login Test.

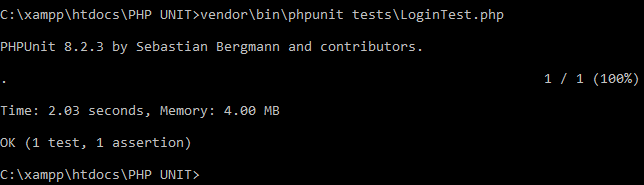


Figure 6:Result of User Login Case.

1. **User Room Reservation Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test input data** | **Expected result** | **Actual result** | **Result** |
| **3** | User Booked room with specific requirement. | Title: Mr.  Name: John Wick  Email: john@gmail.com  Nationality: Nepalese  Country: Nepal  Phone:9841236591  TypeofRoom: Superior Room  Bed Type: Double  NoofRoom:2  Meal: Room Only  Checkin:03/07/2019  Checkout:05/07/2019 | Room booking details should be stored in database without any error. | Successfully all data stored in database without any problem. | Pass |

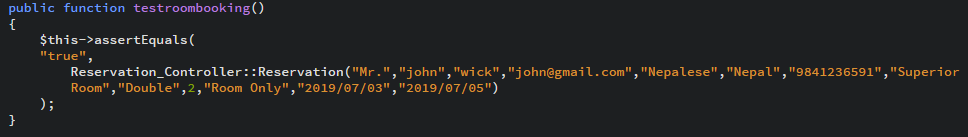


Figure 7:Testing of Room Reservation System.

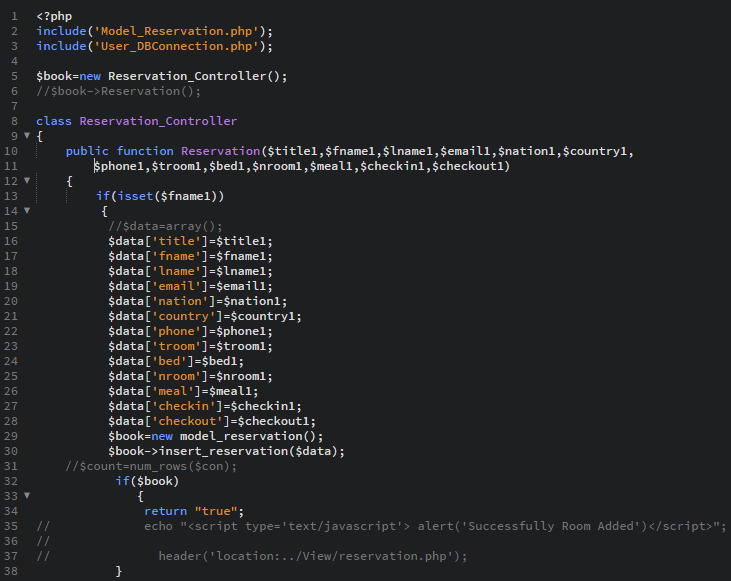


Figure 8:Testing of Room Reservation System.

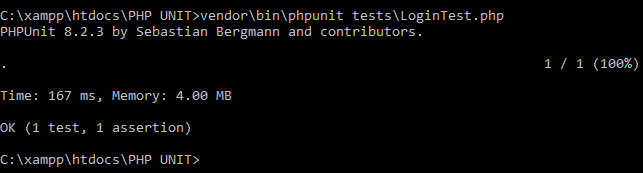


Figure 9:Result of Room Reservation System.

1. **Newsletter Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **4.** | User have options to subscribe their newsletter. | Fullname: Selena Gomez  Phone: 9841756320  Email: [Selena@gmail.com](mailto:Selena@gmail.com) | User entry data should be store in database. | Successfully insert data in system database. | Pass |

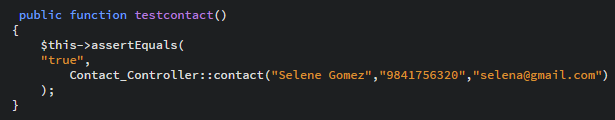


Figure 10:Newsletter Testing.

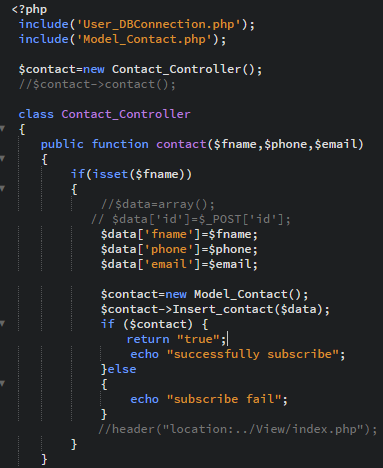


Figure 11:Newsletter Testing.

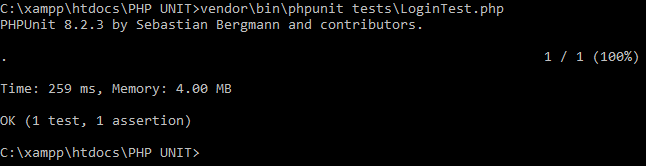


Figure 12:Newsletter Testing Result.

1. **Add New Admin Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **5.** | New admin can insert in database or not. | Username: Peter  Password: Peter123 | The data of admin should be added in system. | New admin successfully inserted data. | Pass |

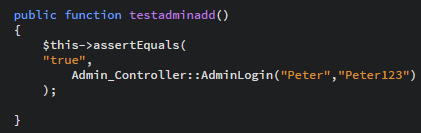


Figure 13:Testing of Add New Admin.

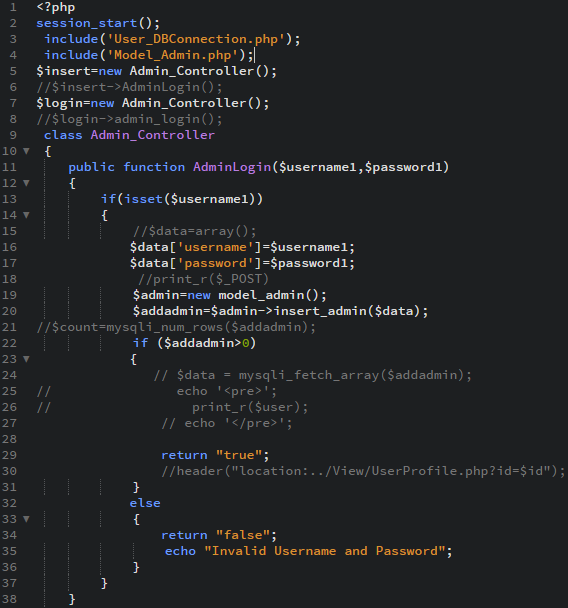


Figure 14:Testing of Add New Admin

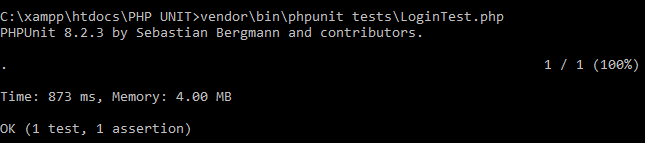


Figure 15:Added New Admin Result.

1. **Admin Login Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **6.** | Admin must be able to login to system | Username: Admin  Password: Admin | Username and password matched then page it should be redirect into admin dashboard. | Successfully login in admin dashboard. | Pass |

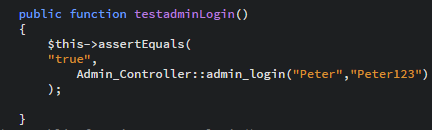


Figure 16:Admin Login Testing.

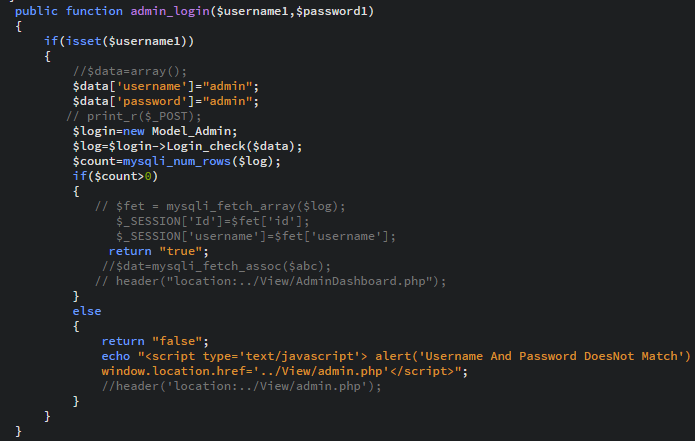


Figure 17:Admin Login Testing.

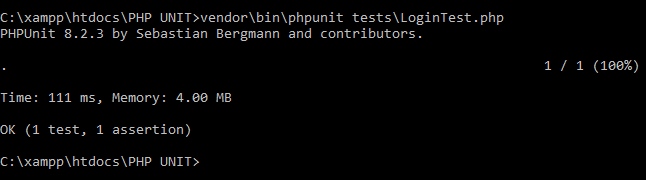


Figure 18:Login Admin Testing Result.

1. **Add Room Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **7.** | Add new room by admin | RoomType: Superior Room  BedType: Double | Room and bed type should be inserted in system database. | Successfully stored New room. | Pass |

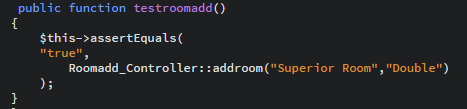


Figure 19:Admin Add New Room Testing.

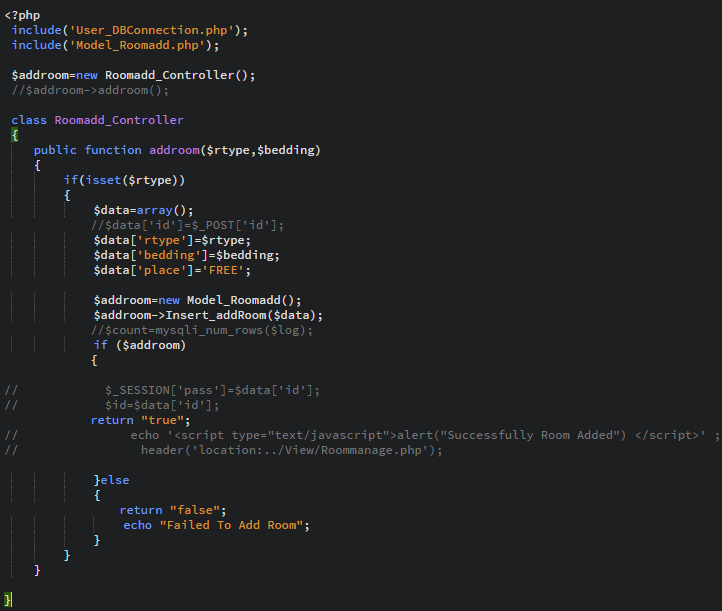


Figure 20:Admin Add New Room Testing.

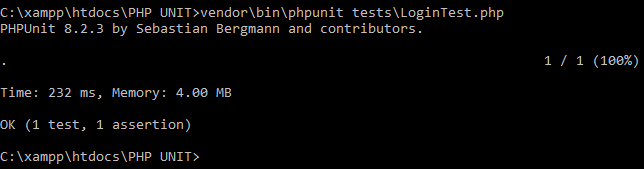


Figure 21:Admin Add New Room Result.

1. **Check Username in User Register**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **8.** | Username checking | Username: John123  Password: Wick12  Address: UAS  Email: john@gmail.com  Phone:9841986532 | System must be show that the username already exists. | Success that username already exist and data doesn’t store in database. | Pass |

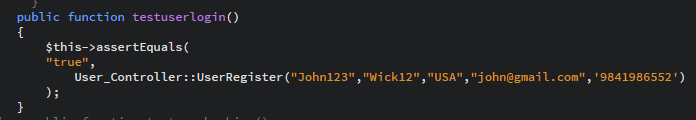


Figure 22:Testing of Re-submit username.

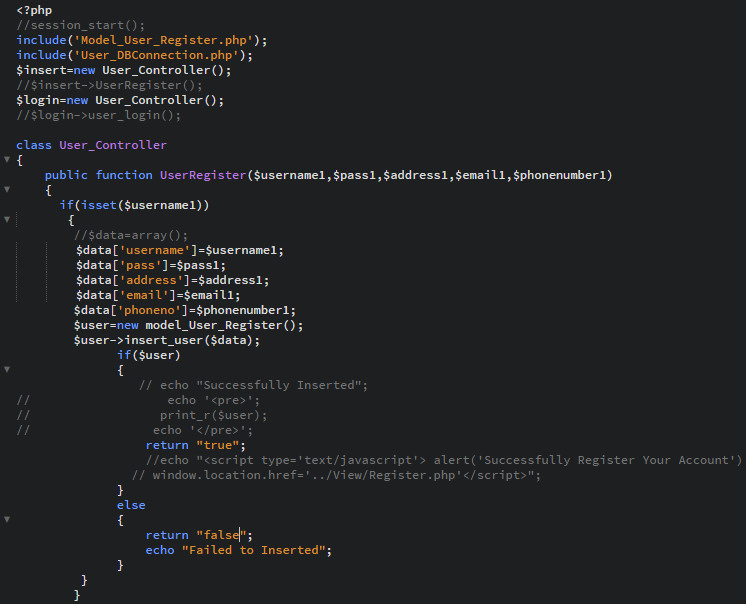


Figure 23:Testing of Re-submit username.

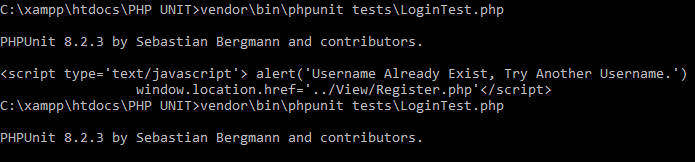


Figure 24:Re-submit Username Result.

## 5.3 Blackbox Testing

This testing is a method of software testing that defines the functionality of software application based on their description. It is also known as behavioural testing, which is tested all the functionality without known anything of internal structure, design and implementation and only observed entirely by what inputs are going and what outputs are coming. This testing can be applied every level of software testing stage.

In this stage, we are going to testing this product functionality with expected results.

**1) User Registration Test**

**Pre-Condition:** User must register before entering into the system.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test input data** | **Expected result** | **Actual result** | **Result** |
| **1** | Check user registration properly working or not. | Username: Pradipdkl  Password:Pradip  Address: Dhapashi  Email: pradipdkl@gmail.com  Phone:9779813398480 | The user data should be registered into database and get username and password. | Successfully register user account and able to accessed with the system. | Pass |

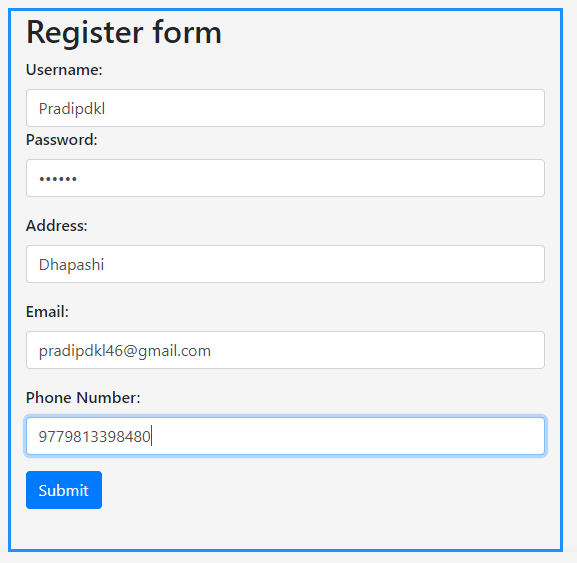


Figure 25:User Register data.

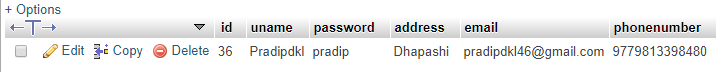


Figure 26:User Register Database.

**2. User Login Test**

**Pre-Condition:** User must be login before accessed into the system dashboard.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **2.** | Check user can able to login into system or not. | Username: Pradipdkl  Password: Pradip | User should be login into system dashboard. | User successfully accessed into the system dashboard. | Pass |

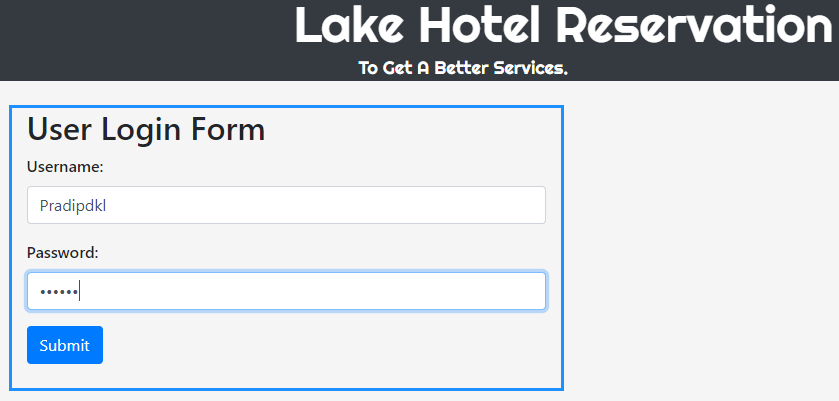


Figure 27:User Login Form

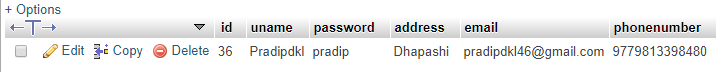


Figure 28:User Login Database

**3.User Data Update**

**Pre-Condition**: User must be able edit their user details.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **3.** | To check if the user data update is working or not. | Username: Pradip1234  Password: Pradip  Address: Dhapashi  Email: pradipdkl@gmail.com  Phone:9779843936666 | User edit data must be changed and insert into database. | User successfully updated their data. | Pass |

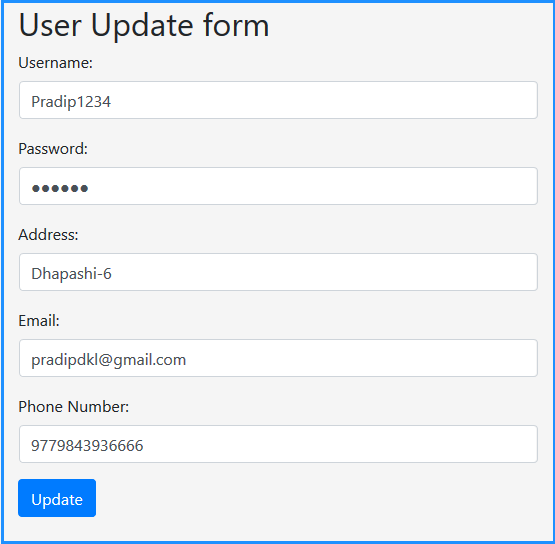


Figure 29:User Update Form

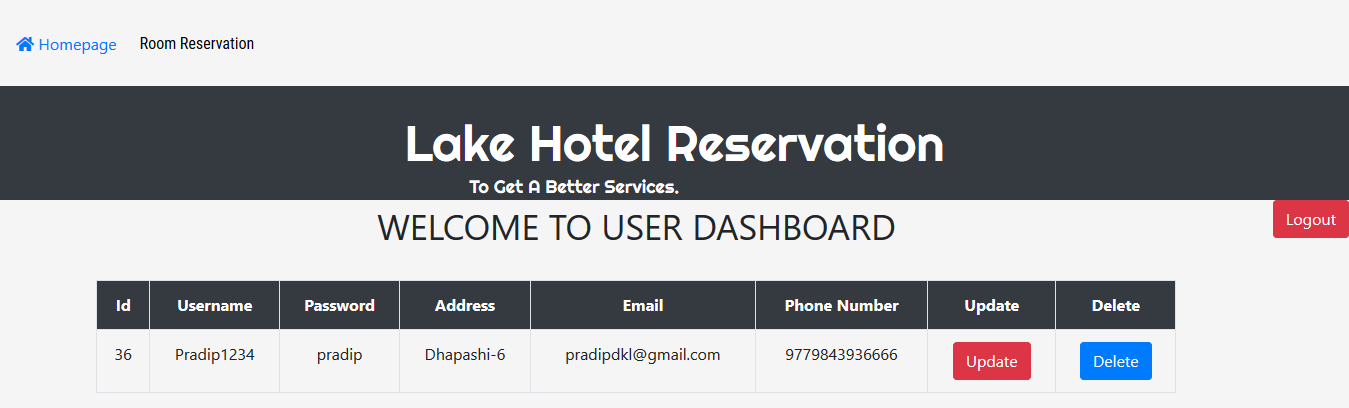


Figure 30:User Update Dashboard.



Figure 31:User Update Database

**4. User Reservation Room Test**

**Pre-Condition:** User must be able to book room with user requirement.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **4.** | To check if the user booked room is working or not. | Title: Mr.  Name: Peter McKinnon  Email: peter@gmail.com  Nationality: Non-Nepalese  Country: Canada  Phone:9779874563210  TypeofRoom: Superior Room  Bed Type: Double  NoofRoom:1  Meal: Half Board  Checkin:02/07/2019  Checkout:07/07/2019 | All the entering data must be stored in database and book hotel room. | Successfully reserved their room with specific user requirement. | Pass |

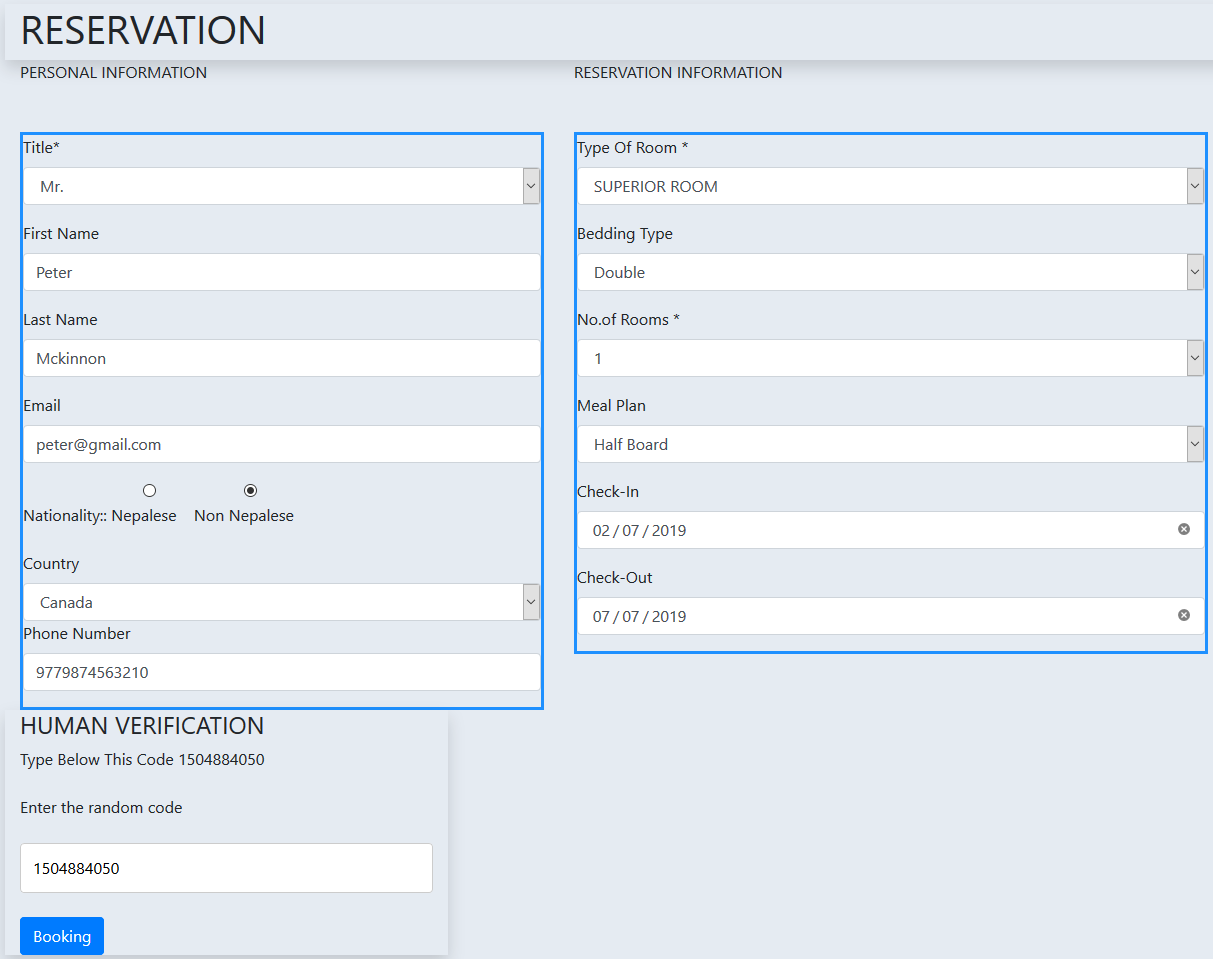


Figure 32:Room Reservation System.



Figure 33:Room Reservation Database.

**5. Admin Login Test**

**Pre-Condition:** Admin must be able to login before accessed into the admin panel.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **5.** | Check if admin account access into system or not | Username: admin  Password: admin | Admin can able to enter into admin dashboard. | Successfully login and able to accessed into system. | Pass |

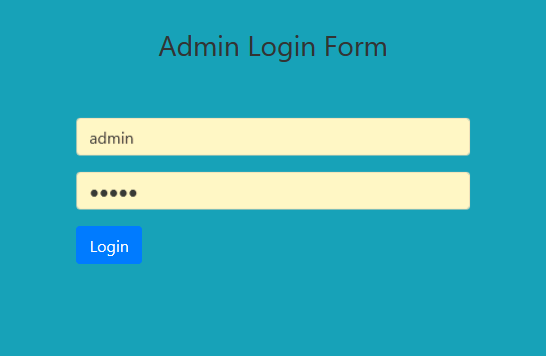


Figure 34:Admin Login Form

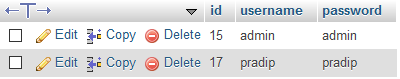


Figure 35:Admin Login Database

**6.Newsletter Test**

**Pre-Condition:** User have option to subscribe their newsletter.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **6.** | User subscribe newsletter inserted working properly or not. | Fullname: Pradip Dkl  Phone: 9843936666  Email: Pradip@gmail.com | User data should be insert into database for to get notification. | Successfully user data insert in database. | Pass |

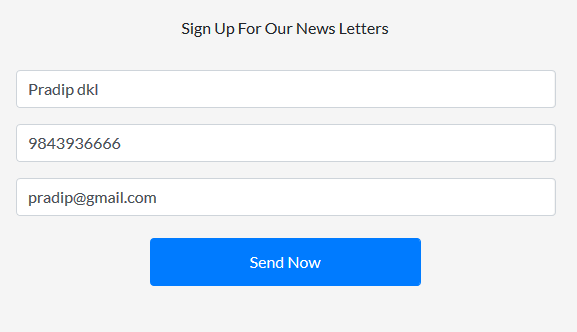


Figure 36:News Letter Form



Figure 37:Newsletter Database

**7. Remove Newsletter Test**

**Pre-Condition:** Only admin have permission to delete their data.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **7.** | To check that newsletter data delete or not. | Fullname: Pradip  Phone:9876541230  Email: p@gmail.com | Admin should be deleted newsletter data form database. | Successfully admin can be able to removed. | Pass |

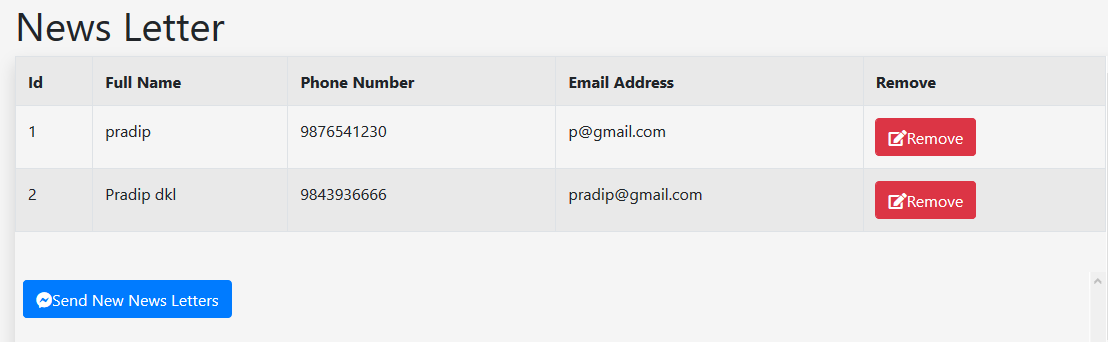


Figure 38:Newsletter Dashboard.



**8.Send Letter Test**

**Pre-Condition:** Admin should be sent message to user to get information.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **8.** | To check that message sent to user or not. | Title: Reservation  Subject: Reservation Successfully.  News: Successfully Room Booking | Admin should be deleted newsletter data form database. | Successfully admin can be able to removed. | Pass |

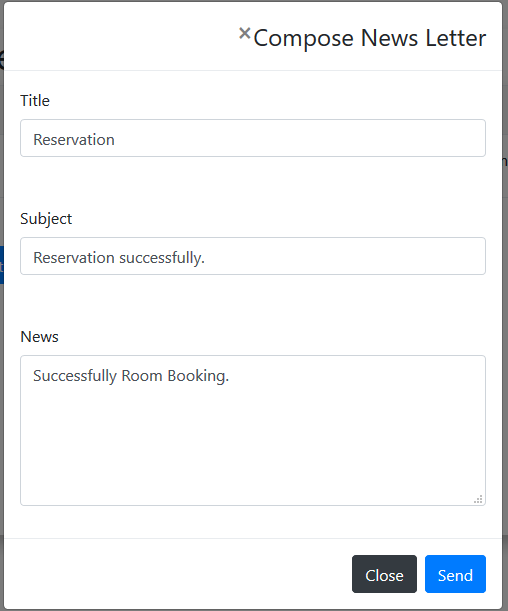


Figure 39:Compose Newsletter



Figure 40:Newsletter in Database

**9. Add Room Test**

**Pre-Condition:** Admin should be able to add room type and bed type.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **9.** | To check if admin can able to adding or not. | RoomType: Superior Room  BedType: Quad | Admin should be added room and bed type in database. | Successfully admin can able to insert room and bed. | Pass |

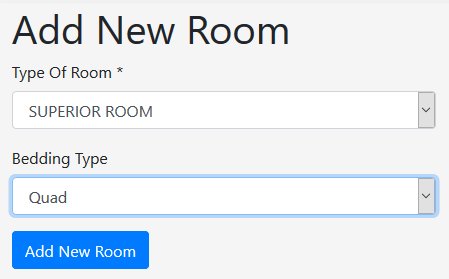


Figure 41:Add New Room



Figure 42:Adding New Room in Database.

**10.Delete Room Test**

**Pre-Condition:** Admin should be able to delete room type and bed type.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Excepted Result** | **Actual Result** | **Result** |
| **10.** | To check if admin can able to delete their room details. | RoomType: Superior Room  BedType: Single | Admin should be deleted room and bedding type from database. | Successfully admin can able to delete room details. | Pass |

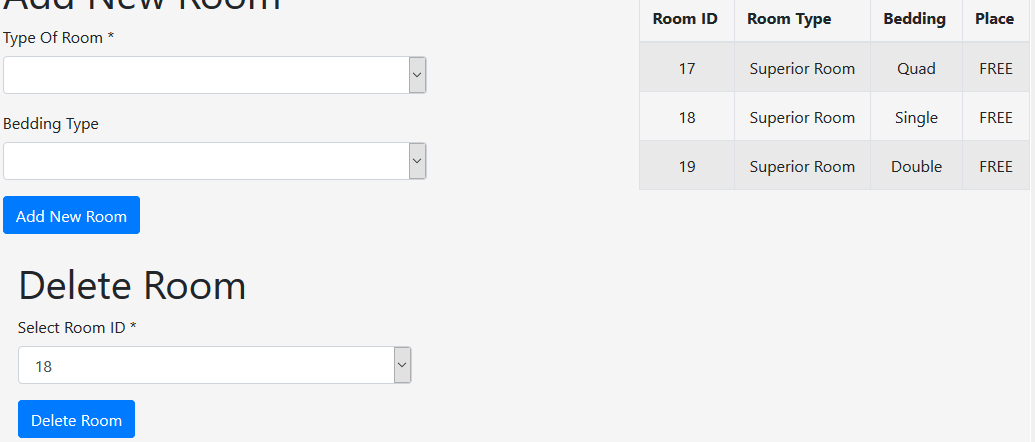


Figure 43:Delete Room Dashboard.

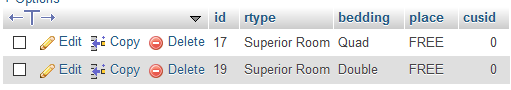


Figure 44:Delete Room in Database

**11. Add New Admin Test**

**Pre-Condition:** Admin have permission to add new admin account.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual result** | **Result** |
| **11.** | Check if admin add new admin user or not. | Username: John@John  Password: John@Jhon | Admin should be added new admin account in database. | Successfully added new admin account in database. | Pass |

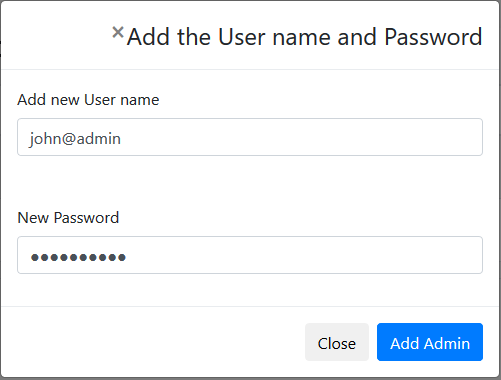


Figure 45:Add New admin Form

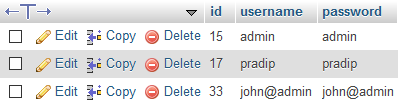


Figure 46:Add New Admin in Database.

**12.Delete Admin Account Test**

**Pre-Condition:** Admin have permission to delete their account.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Test Scenario** | **Test Input Data** | **Expected Result** | **Actual Result** | **Result** |
| **12.** | To check if admin account able to delete or not | Username: Pradip  Password: Pradip | Admin should be deleted their admin account from database. | Successfully deleted admin account from database. | Pass |

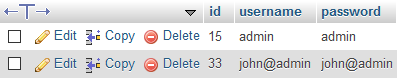


Figure 47:Delete Admin from Database.