# Testing

The process finding out the system is performing well or not is known as testing. In computer software, testing is used to find the key points in overall process which determines whether the function are working or not. Before finding the functionality performance of the system, developer will look into system to know the objectives are being met or not. And this all process is done through testing. When the design is complete and after that coding is performed and completed coding then testing will started in where the overall performance of the system is looked.

# Importance of testing

* Software testing is used find the customer satisfaction and reliability in the application.
* Testing also ensure the quality of the product. Quality product supplied to client supports in achievement their self-confidence.
* Testing is essential for an actual performance of software application.
* Its main importance is that software should not produce any failures result because it can be very costly future.

# Types of testing

**Functional testing types include:**

* Unit testing
* Integration testing
* System testing
* Sanity testing
* Smoke testing
* Interface testing
* Regression testing
* Beta/Acceptance testing

**Non-functional testing types include:**

* Performance Testing
* Load testing
* Stress testing
* Volume testing
* Security testing
* Compatibility testing
* Install testing
* Recovery testing
* Reliability testing
* Usability testing
* Compliance testing
* Localization testing

Among these testing I have chosen only following testing

**Black box testing:**

In this design, the internal system is not consider to test but the tests are based on the requirements and functionality of the system.

**For User Black Box Texting:**

**Test Name: Registering Donor Form**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 1 | To check the inserted value is working | First Name: Sabin  Last Name: Gautam  Blood Group:  B+  Address: Kalanki, Kathmandu  Age: 20  Contact Number: 9860560109  Gender: Male  Email Id:  Sabingautam05@gmail.com | The data should be inserted into donor table in database and redirect to the become donor page. | Successfully new donor information is inserted. | Pass |

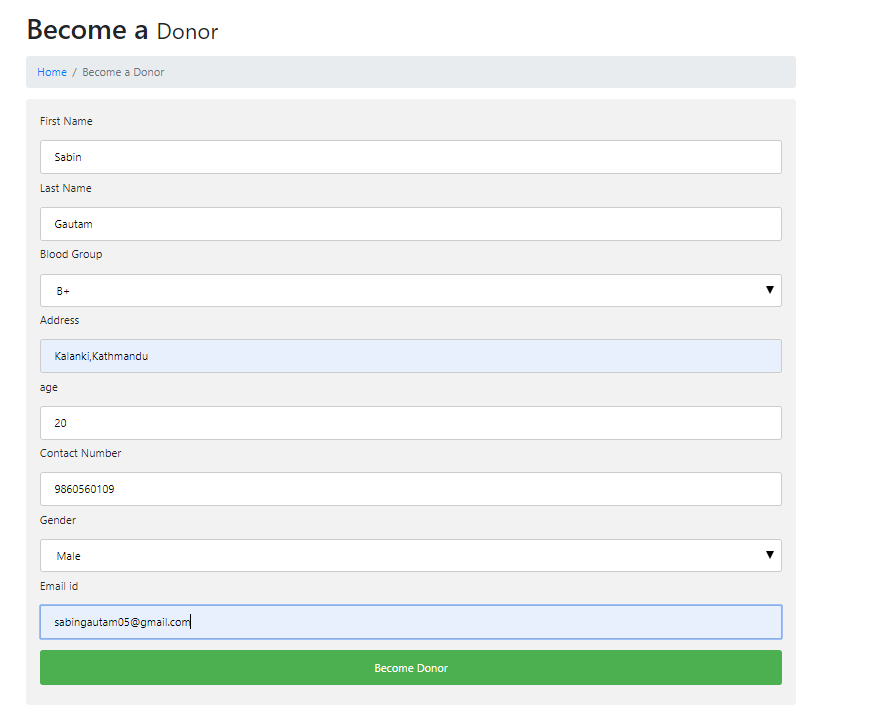
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Figure : Inserting donor Information

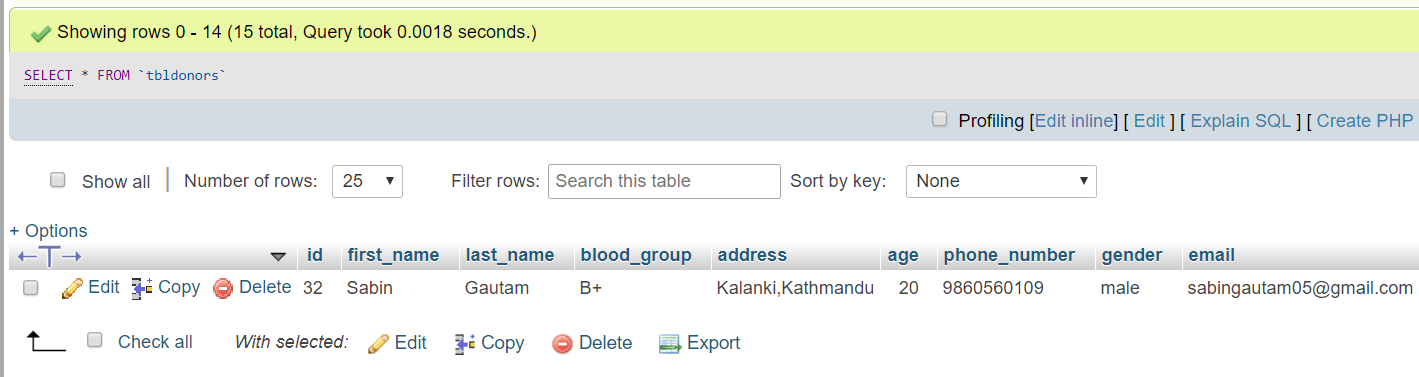
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Figure : database after inserting donor information

**Test Name: Searching Found**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 2 | To check search is working | Blood Group: B+  Location: Kalanki, Kathmandu | Blood group and location  Are filled in text box and search the donor information | Successfully found the result. | Pass |



Figure : Searching for result

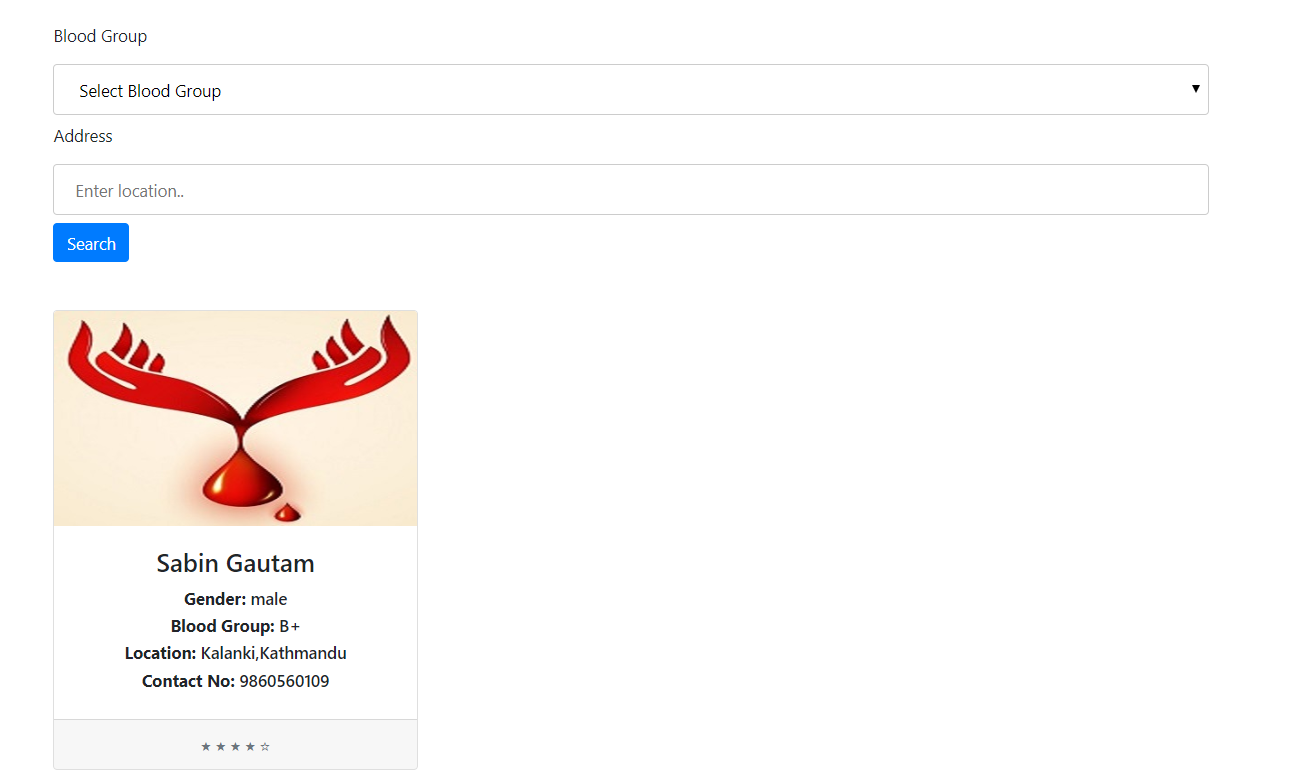


Figure : Result found

**Test Name: Searching not found**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 3 | To check Searching result is not found | Blood Group: A+  Location: Kalanki, Kathmandu | After entering blood group and location text box and result is not found | Successfully result is not found | Pass |

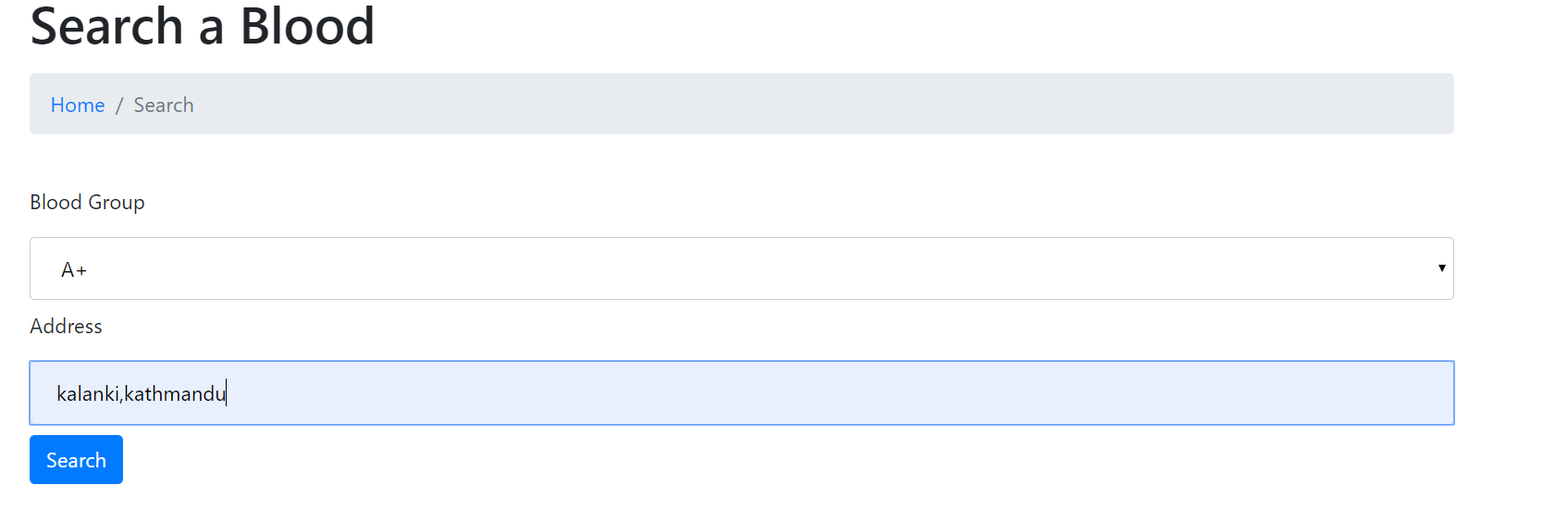


Figure : Entering input searching for result

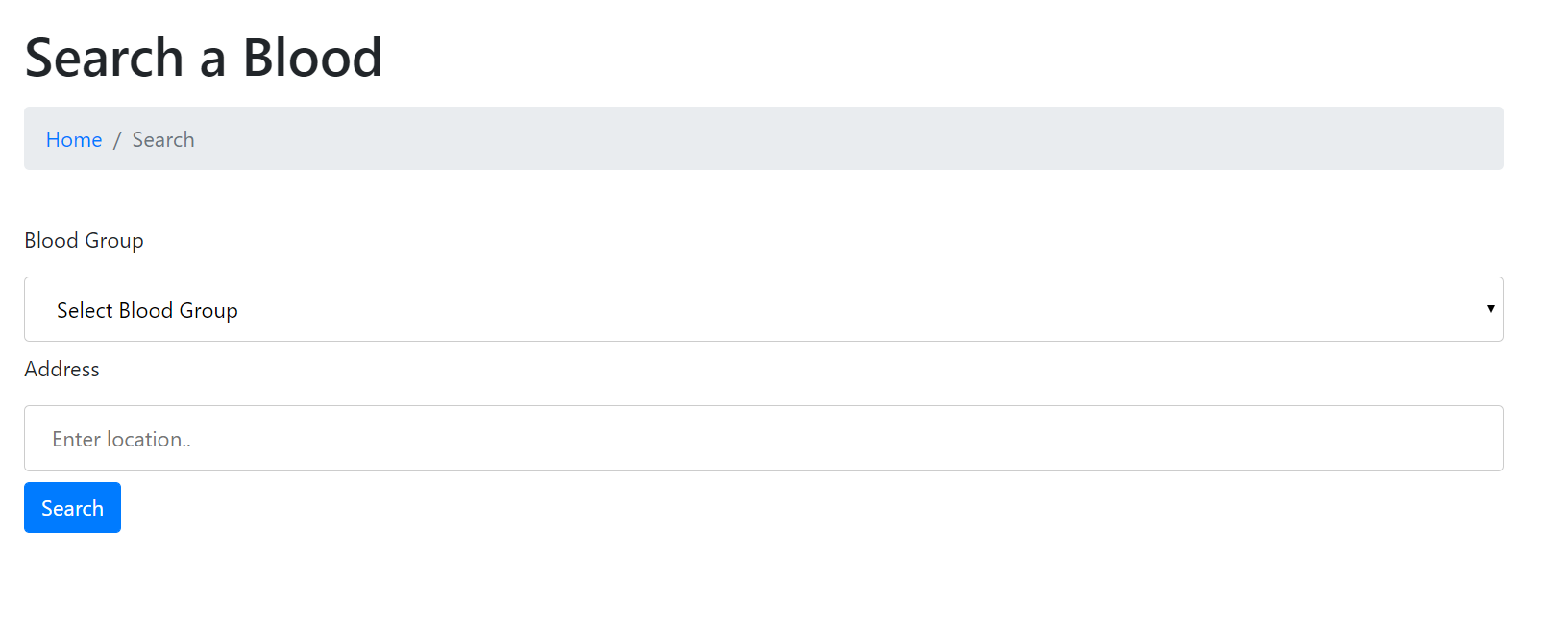


Figure : Result not found

**Test Name: Sending Message**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 4 | Sending message for information | Full Name: Sabin Gautam  Email: [sabingautam05@gmail.com](mailto:sabingautam05@gmail.com)  Phone Number: 9865320123  Message: Is there O neagtive is available or not. | Filling all text box and inserting data in database and redirecting to contact page | Successfully inserted the input and successfully direct to contact page | Pass |

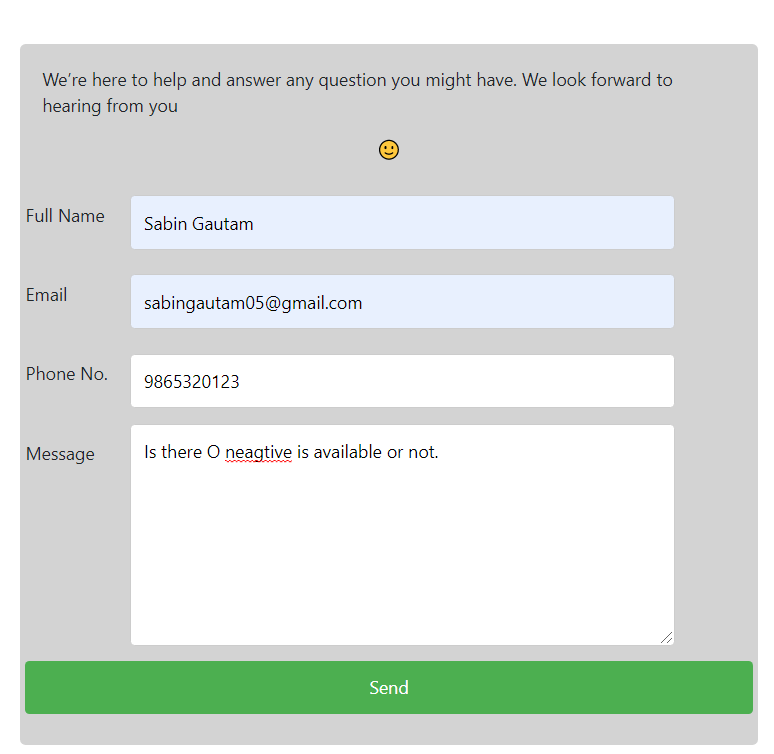
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Figure : Entering Input for sending Message

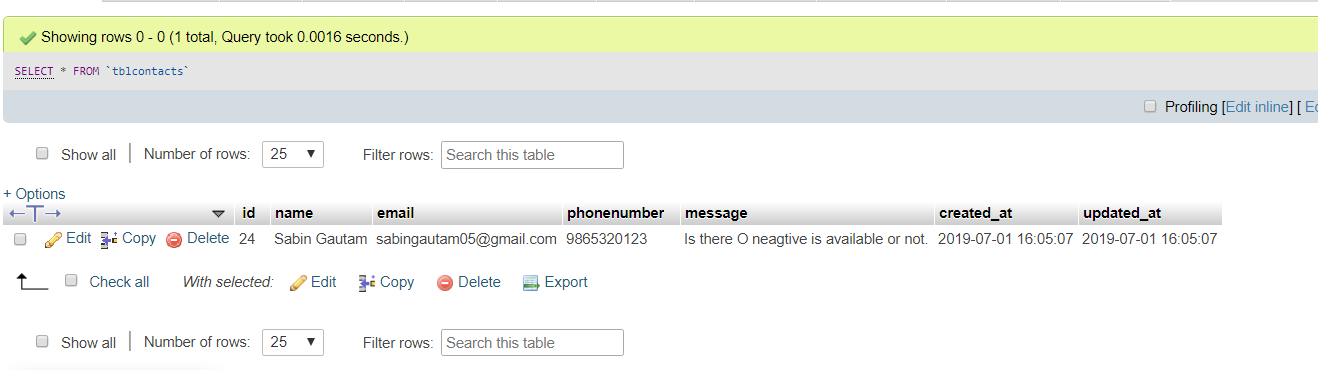
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Figure : database of send message

**Black Box testing For Admin**

**Test Name: Deleting Register Donor Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 5 | Delete donor information | First Name: Sabin  Last Name: Gautam  Blood Group:  B+  Address: Kalanki, Kathmandu  Age: 20  Contact Number: 9860560109  Gender: Male  Email Id:  Sabingautam05@gmail.com | Donor information should deleted from database after clicking on delete button and directed to donor information page | Successfully deleted clicked data | Pass |

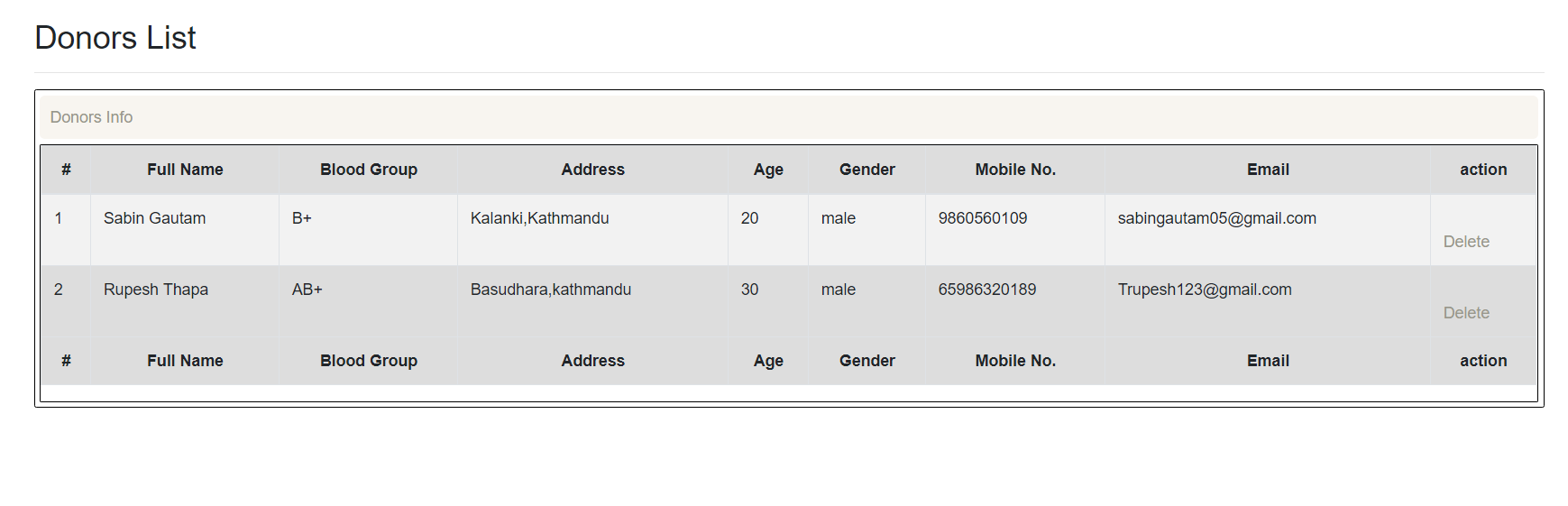


Figure : Donor information before delete

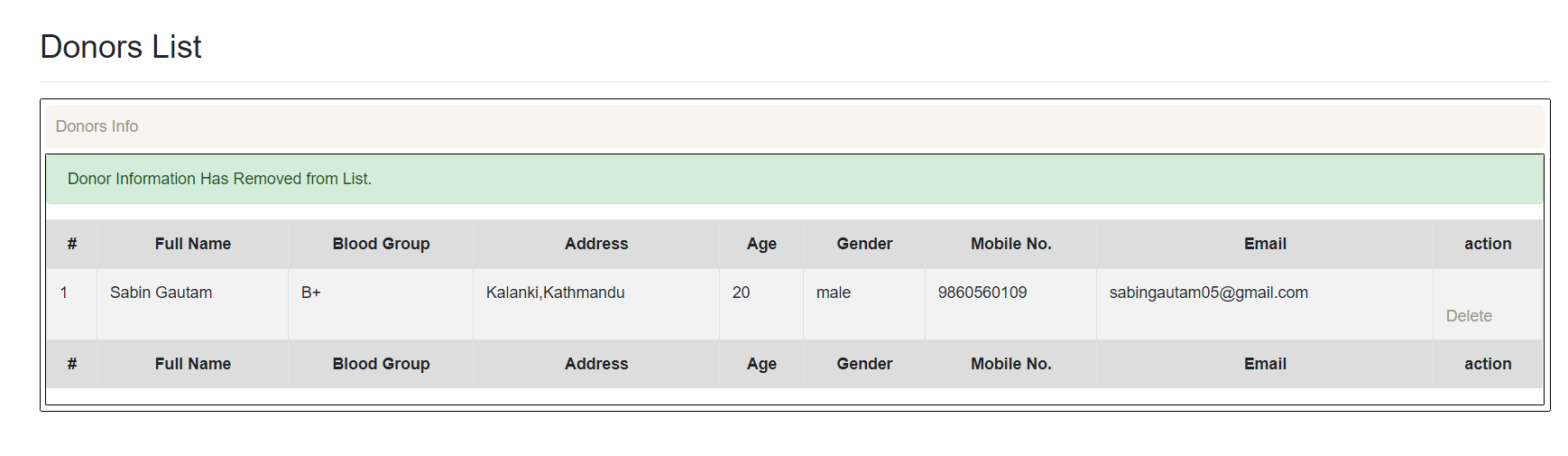


Figure : Donor information after delete

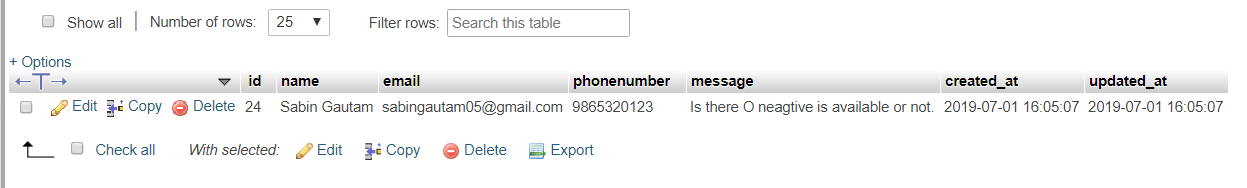


Figure : database record after delete

**Test Name: Deleting Record Blood Group**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 6 | Deleting blood group | Blood Group: A+ | Data should deleted from database after clicking on delete button | Successfully deleted blood group from recorded | Pass |

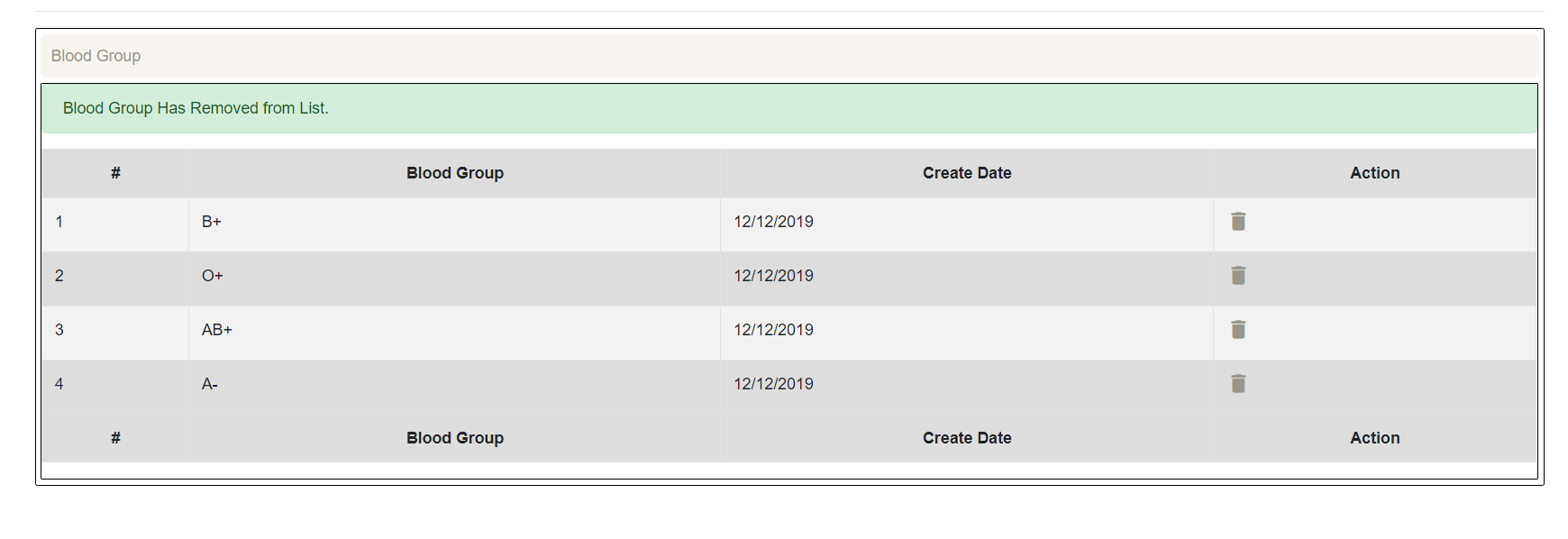


Figure : Deleting blood group Record

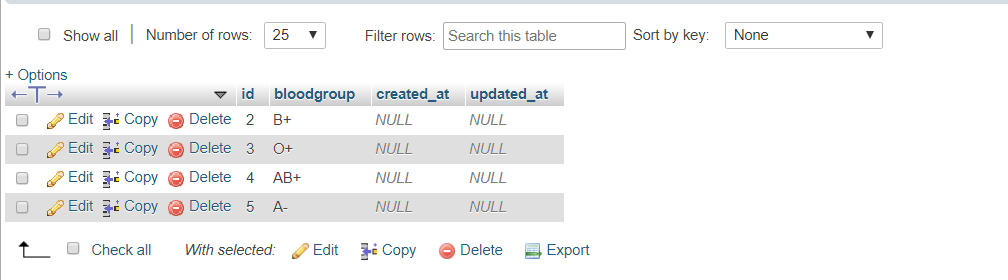
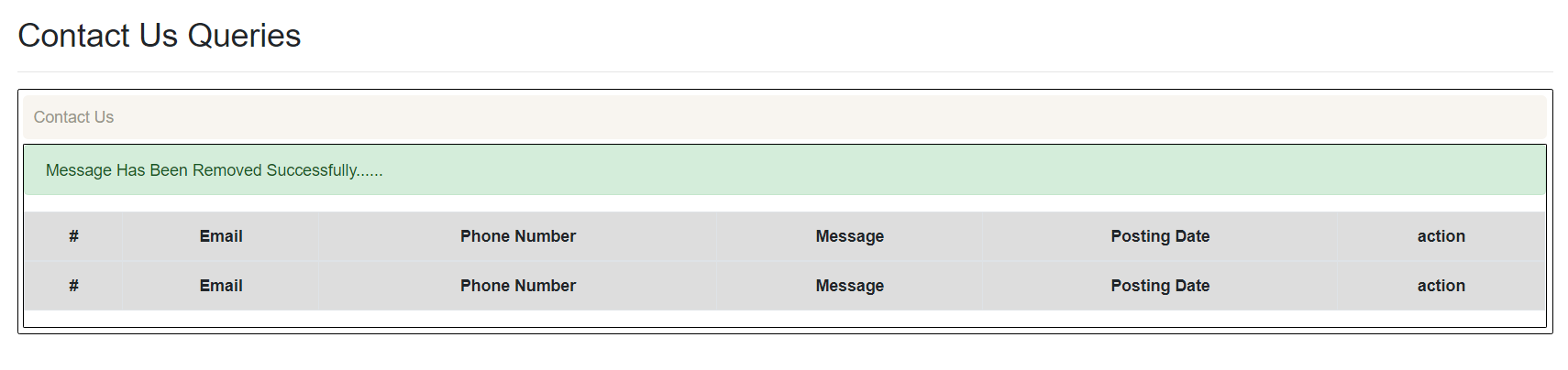


Figure : database of record blood group after record

**Test Name: Deleting Contact us Queries**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 7 | Deleting send message from user | Full Name: Sabin Gautam  Email: [sabingautam05@gmail.com](mailto:sabingautam05@gmail.com)  Phone Number: 9865320123  Message: is there O negative is available or not. | Send queries should deleted from record system | Successfully delete data | Pass |

****Figure : deleting send message

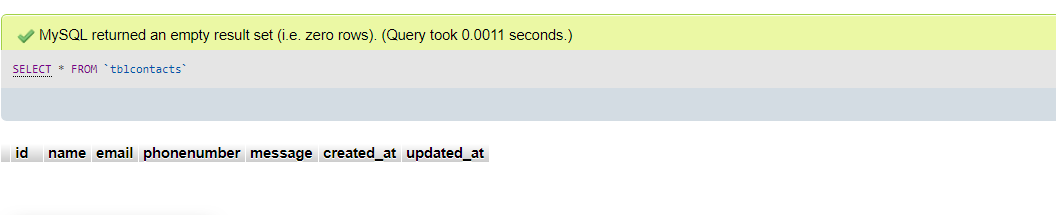
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Figure : database of deleted message

**Test Name: Updating Contact Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 8 | Changing the contact us information | Address : Syuchatar, Kathmandu  Email: [DBMS@gmail.com](mailto:DBMS@gmail.com)  Phone: 014034273 | The contact information should be updated and redirect to database | Successfully updated data | Pass |

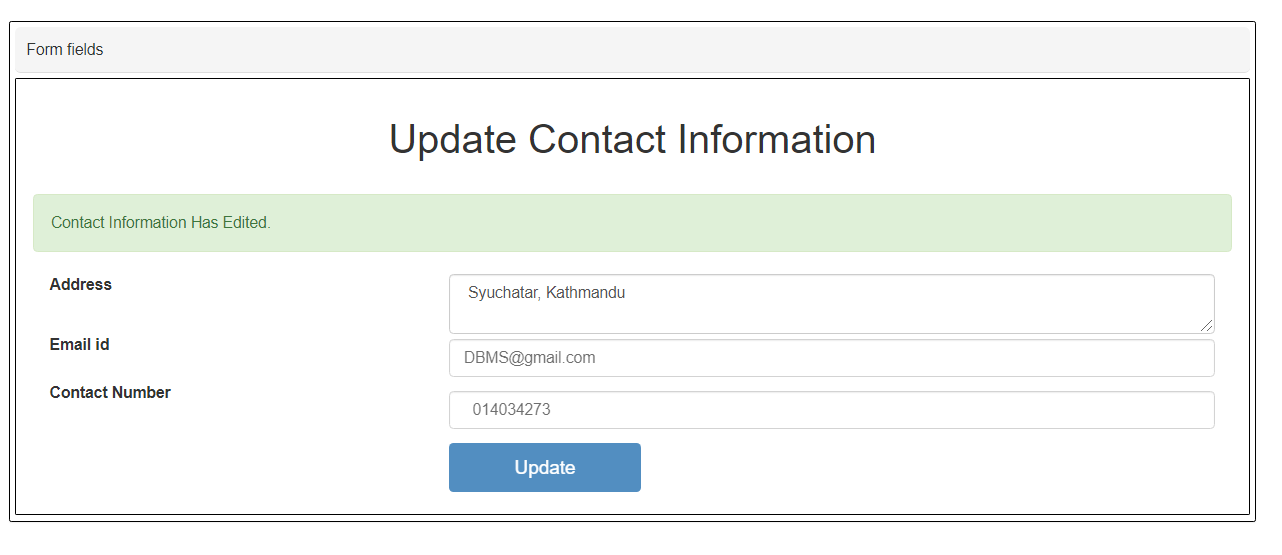
****

Figure : entering input to update contact info

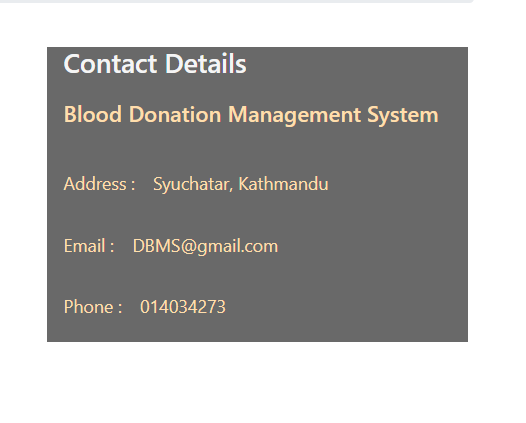
****

Figure : displaying update information

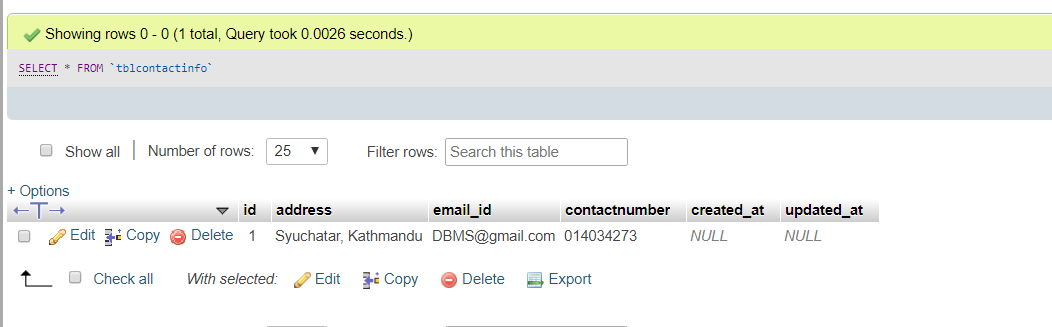
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Figure : database contact information for user

**Test Name: Updating About Us Page Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No. | Test Scenarios | Test Input Data | Expected Result | Actual Result | Results  (Pass/Fail) |
| 9 | Changing the pages information | Page: About Us  Contents:  This information page for about page. | Pages information should be updated from database page table and redirect to manage page section | Successfully updated the page information and redirect to manage page section. | Pass |

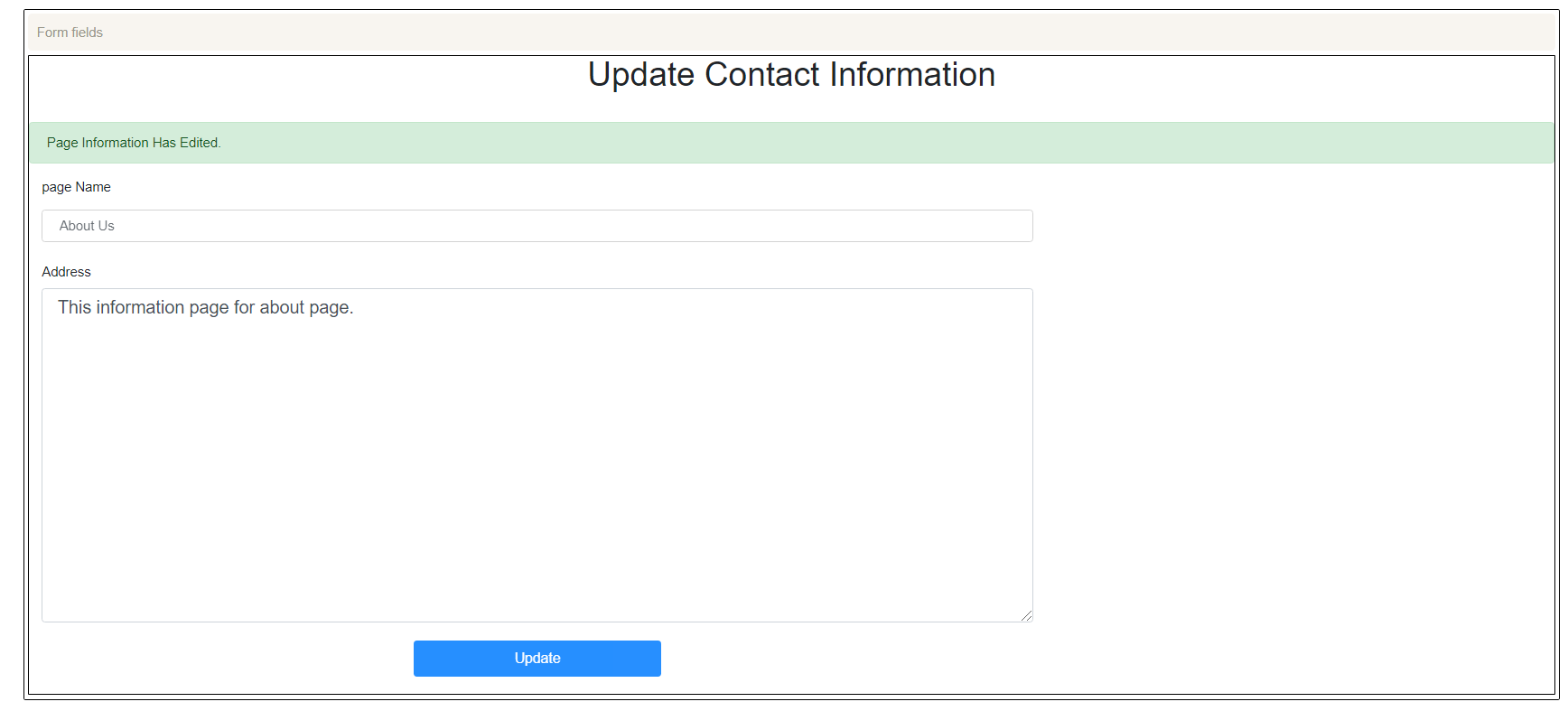


Figure : Updating about us page information



Figure : Displaying information after update

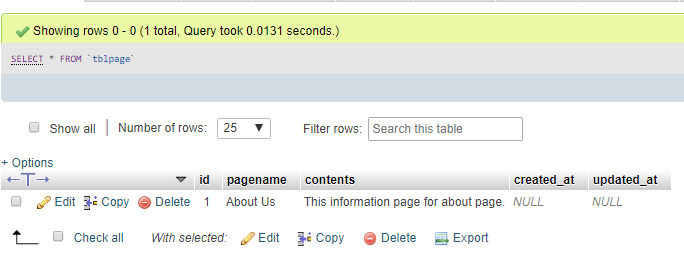


Figure : database of Updated information in page