# **Testing**

Testing refers to the process of checking actual result with expected result of the system to confirm that the system works nicely and is bug free.

Due to following reasons software testing is important:

* Defects in software can cause economic, time and reputation loss.
* It improve reliability, performance and security.
* Also it improve quality of software and satisfy customer.

There are various types of testing like UI testing, regression testing, black box testing, white testing, unit testing and so on. From the above type of testing I am doing

* Unit testing and black box testing.

## **Unit testing.**

## 

It is the process of testing each module to make a decision whether the developer has made any mistake or not.

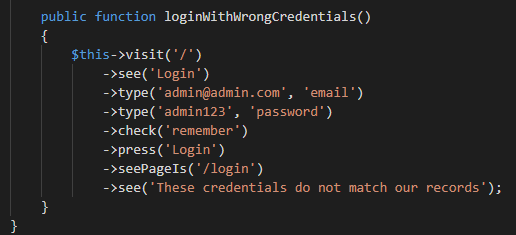
The reason behind choosing unit testing are as follows:

* It reduce bugs in the software.
* The software also can be tested before developing it completely.
* It improve code architecture and helps developers to attain their aims quickly.

Test Name: Login Test.

Pre-condition: User must successfully logged in.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 1 | To check if the value inserted is working properly. | Email: admin@admin.com  Password: admin123. | The data should be inserted into the database and user should be redirected to the donation page. | Successfully inserted data is matched form the database and admin is able to access the dashboard page | Pass |



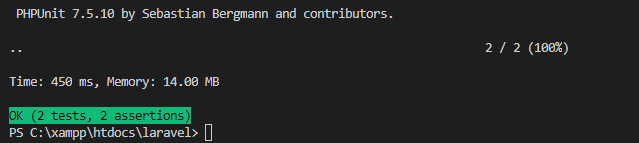
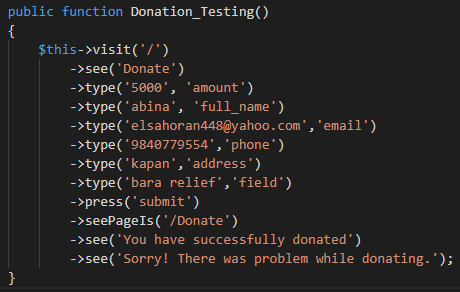


Fig 1: Picture of unit testing of login.

Test Name: Donation Test.

Pre-condition: User must successfully donate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 2 | The value inserted for login should work properly. | Amount: 5000  Name: abina  Email:  Elsahoran448@yahoo.com  Phone: 9840779554  Address: Kapan  Field: Bara Relief. | The data should be successfully inserted into the database. | Successfully data is inserted into the database. | Pass |



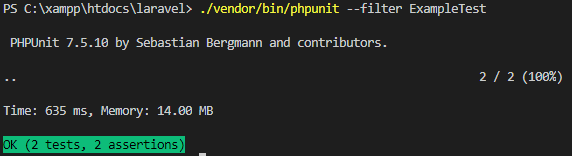
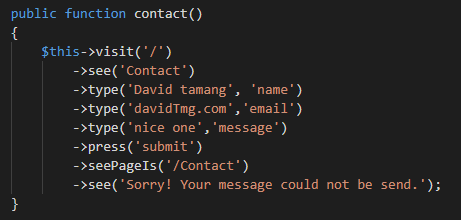


Fig 2: Picture of unit testing of donation.

Test Name: Contact Test.

Pre-condition: User must successfully send message with user details to contact.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 3 | To check if the value inserted is working properly. | Name: David tamang.  Email: davidTmg.com  Message: nice one. | The data should be successfully inserted into the database. | Successfully data is inserted into the database. | Pass |



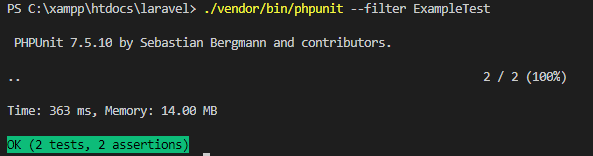
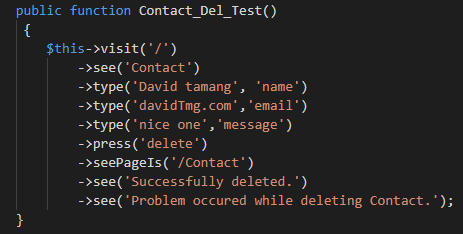


Fig 3: Picture of unit testing of contact.

Test Name: Contact-Del Test.

Pre-condition: Admin must successfully delete the contact details.

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| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 4 | To check if the selected value is deleting properly from database. | Name: David tamang.  Email: davidTmg.com  Message: nice one. | The data should be successfully deleted from the database. | Successfully data is deleted from the database. | Pass |



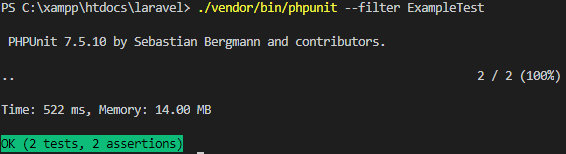
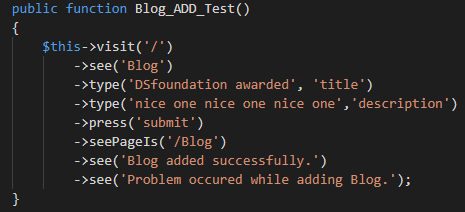


Fig 4: Picture of unit testing of deleting contact details.

Test Name: Blog-add Test.

Pre-condition: Admin must successfully post the blog.

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| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 5 | To check if the value inserted is working properly. | Title: DSfoundation awarded.  Description: nice one….. | The data should be successfully inserted into the database. | Successfully data is inserted into the database. | Pass |



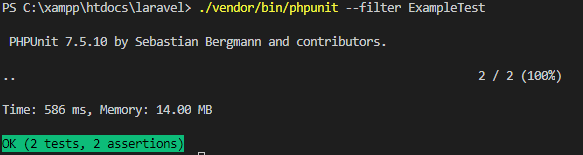
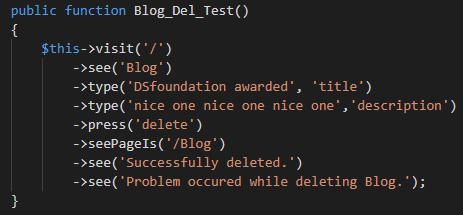


Fig 5: Picture of unit testing of Blog–add.

Test Name: Blog-Del Test.

Pre-condition: Admin must successfully delete the blog.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 6 | To check if the selected value is deleting properly from database. | Title: DSfoundation awarded.  Description: nice one….. | The data should be successfully deleted from the database. | Successfully data is deleted from the database. | Pass |



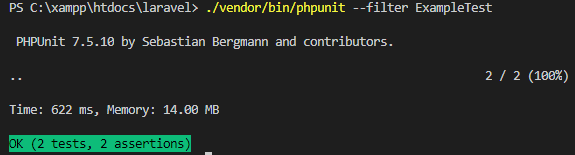


Fig 6: Picture of unit testing of deleting blog.

## **Black box testing.**

The process of testing the input and output without bothering internal working of the system is known as black box testing. The reason behind choosing black box testing are:

* It is easy to do because code is not required and done through the user points of view.
* It emphasis on functional requirements.
* Mainly, it test behavioral and performance errors.

Test Name: Donation Test.

Pre-condition: User must successfully donate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 1 | The value inserted for login should work properly. | Amount: 75000  Name: Abiraj Timalsina  Email:  abirajtimalsina87@yahoo.com  Phone: 9840779554  Address: Kapan  Field: Bara Relief. | The data should be inserted into the database and user should be redirected to the donation page. | Successfully data is inserted into the database and user is redirected to the donation page. | Pass |

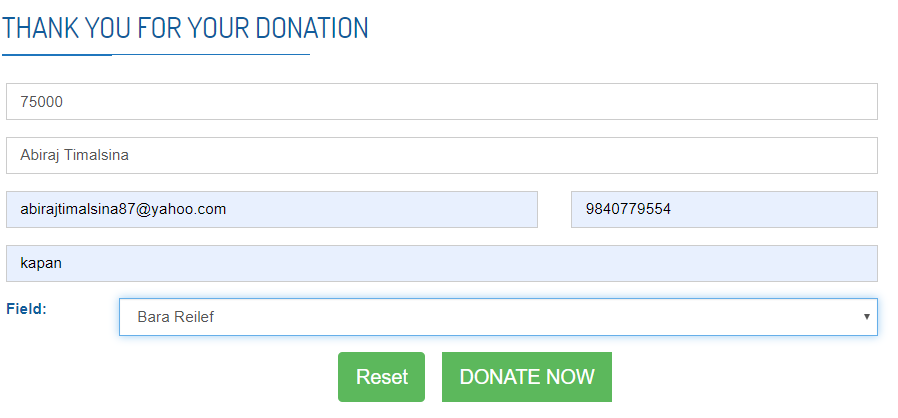


Fig 7: UI of donation page before donation.

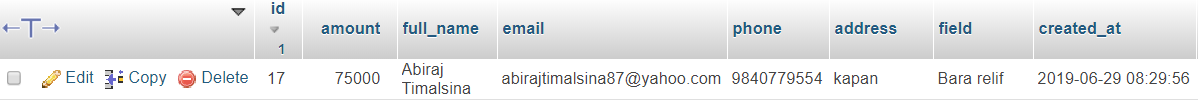


Fig 8: picture of database after successfully donated

Test Name: Negative amount validation Test.

Pre-condition: validation must restrict user from donating negative amount.

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| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 2 | To check if the from validation is working properly from being inserting negative value. | Amount: -15000  Name: abiraj  Email:  abirajtimalsina87@yahoo.com  Phone: 9840779554  Address: Kapan  Field: Gautam Buddha international cricket stadium. | The data should not be inserted into the database and user should be redirected to the donation page with error message. | The Data did not inserted into the database and user is redirected to the donation page with error message. | Pass |

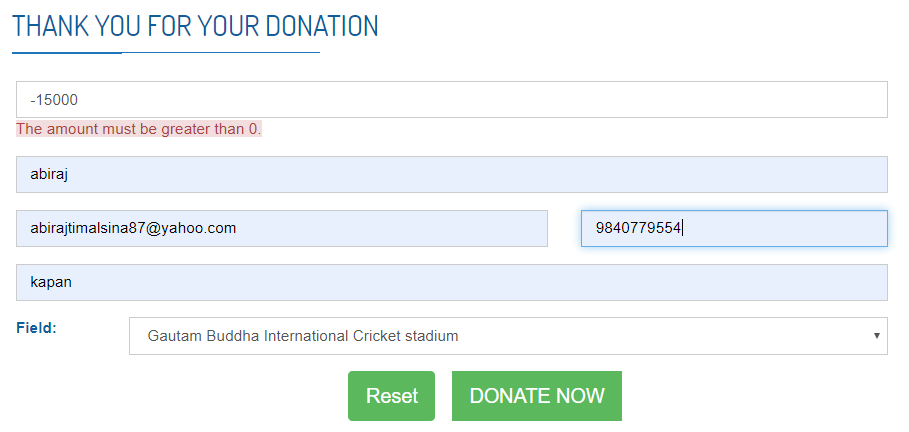


Fig 9: UI of donation page with validation.

Test Name: Contact Form Test.

Pre-condition: User must successfully send message with user details to contact.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 3 | To check if the value inserted is working properly. | Name: Sandesh Thapa  Email: th\_San756@gmail.com  Message: This site is well developed, responsive too and I can get every information that I want about this foundation but if there was a video than it'd be better. | The data should be inserted into the database and user should be redirected to the Contact page. | Successfully data is inserted into the database and user is redirected to the Contact page. | Pass |

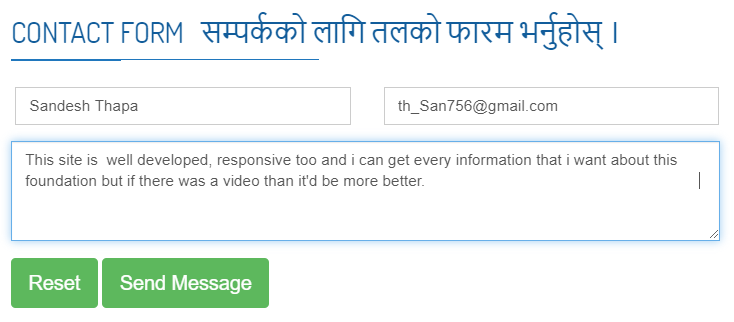


Fig 10: UI of Contact page before insertion of data.

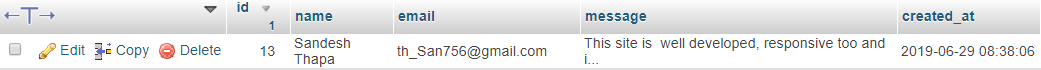
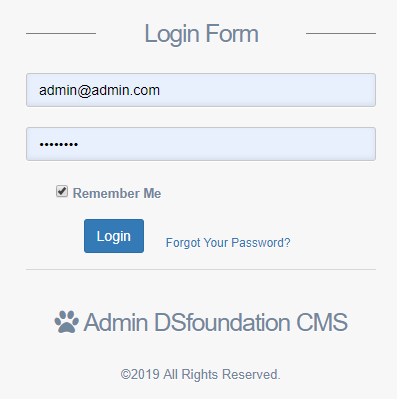


Fig 11: picture of database after successfully insertion of data from contact form.

Test Name: Login Test.

Pre-condition: Admin must successfully logged in and access to the dashboard.

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| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 4 | To check if the value inserted for login is working properly. | Email: admin@admin.com  Password: admin123. | The inserted data for login should be matched from the database and admin should be able to access the dashboard page. | Successfully inserted data is matched form the database and admin is able to access the dashboard page. | Pass |



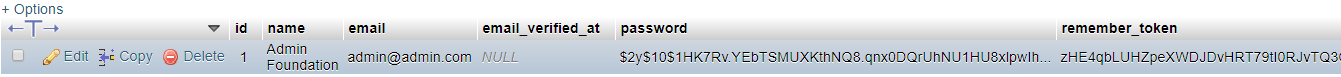


Fig 12: pictures of login form page with database picture before successfully admin logged in.

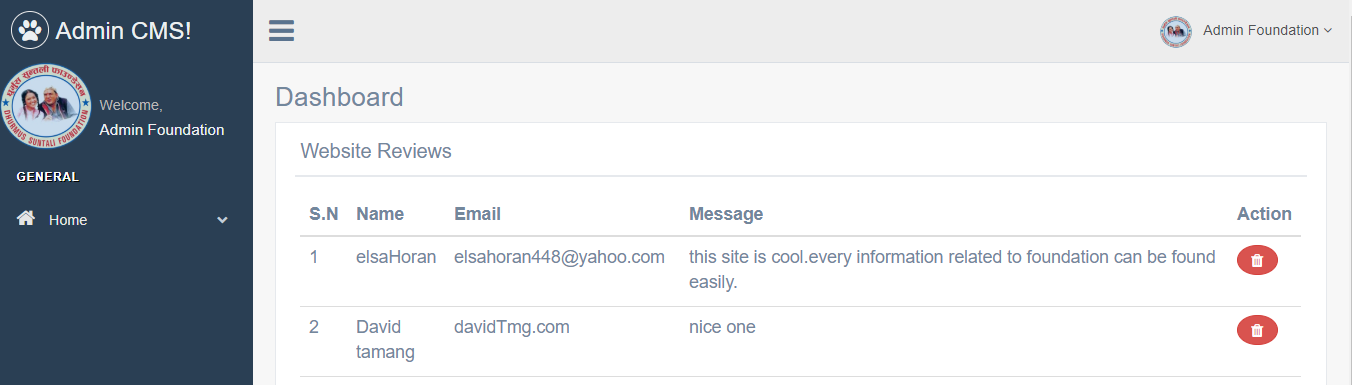


Fig 13: UI of dashboard pages after successfully admin logged in.

Test Name: Posting Blog Test.

Pre-condition: Admin must successfully post the blog and redirect to the post blog page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 5 | To check if the value inserted for login is working properly. | Title: राष्ट्र निर्माण, तपाई हाम्रो अभियान ।  Description: जनस्तरबाट……  Image: cricket.jpg | The data should be inserted into the database and admin should be redirected to the Blog add page. | Successfully data is inserted into the database and admin is redirected to the Blog add page. | Pass |

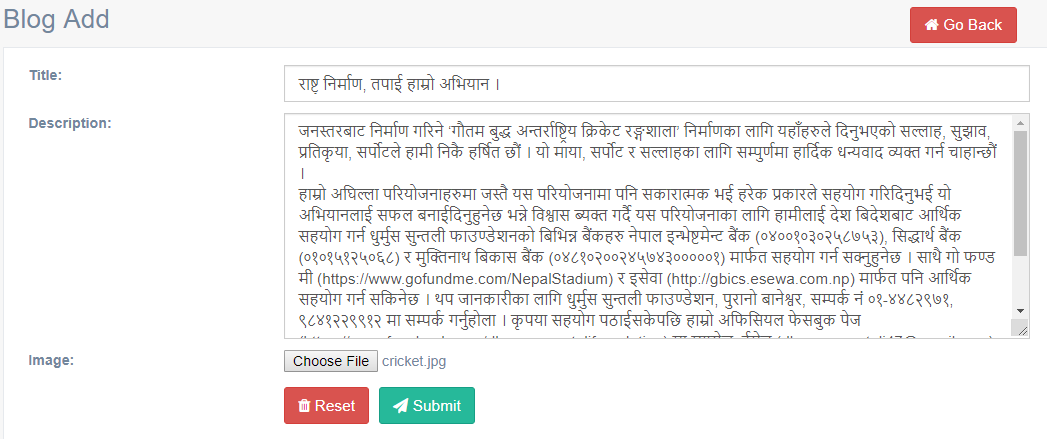


Fig 14: UI of Blog page before admin posting blog.

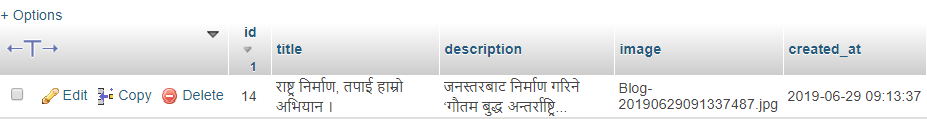


Fig 15: picture database page after admin successfully posted blog and data inserted into database.

Test Name: Posting Image Test.

Pre-condition: Admin must successfully post the image and redirect to the post image page.

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| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 6 | To check if the value inserted for login is working properly. | Image: 15.jpg | The data should be inserted into the database and admin should be redirected to the image add page. | Successfully data is inserted into the database and admin is redirected to the image add page. | Pass |

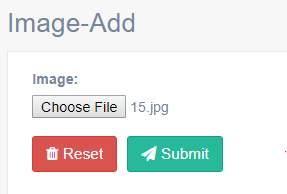


Fig 16: UI of Image page before posting image.

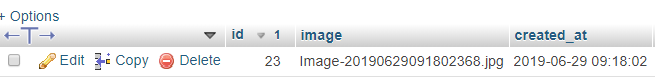


Fig 17: picture of database pages after admin successfully posted image and data inserted into database.

Test Name: Update blog Test.

Pre-condition: Admin must successfully update blog and redirect to the blog-add page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 7 | To check if the selected value for updating and inserting into the database is working properly. | Title: कोरियाको एक समुहले धुर्मुस…..  Description: रोजगारिको...  Image: DS.jpg | The data should be inserted into the database and admin should be redirected to the blog-update page. | Successfully data is inserted into the database and admin is redirected to the blog-update page. | Pass |



Fig 18: UI of blog-update page before updating blog.



Fig 19: picture of database after admin successfully updated blog.



Fig 20: UI of blog-list after admin successfully updated blog.

Test Name: Delete image Test.

Pre-condition: Admin must successfully delete image and redirect to the image-list page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 8 | To check if the selected value for deleting from the image list and from database is working properly. | Image: DS.jpg | The image should be deleted from the database and image list too and redirected to the image-list page. | Successfully data is deleted from the database and image list page and admin is redirected to the image-list page. | Pass |

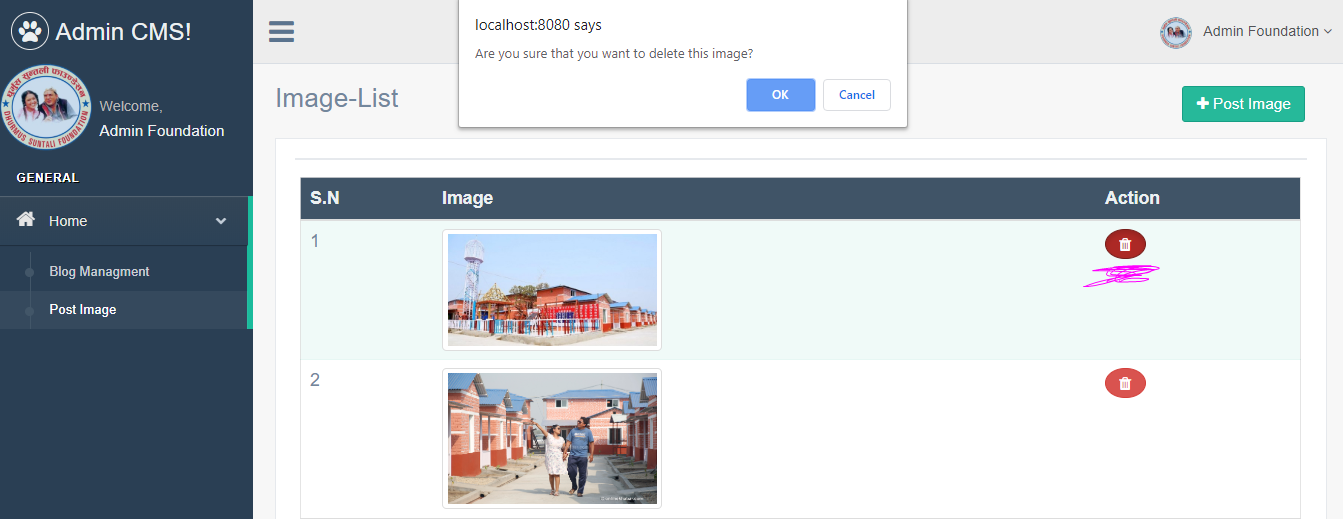


Fig 21: UI of image-list page before deleting image.

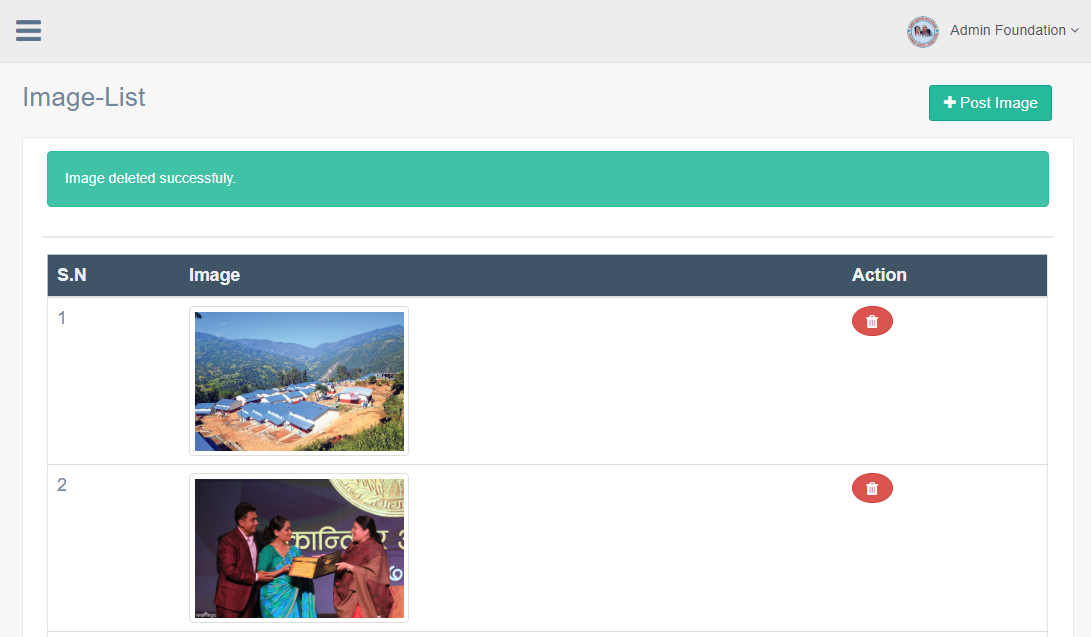


Fig 22: UI of image-list page after admin successfully deleted image.

Test Name: Delete blog Test.

Pre-condition: Admin must successfully delete blog and redirect to the blog-list page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test no | Test Scenario | Test Input Data | Expected result | Actual result | Result (Pass/Fail) |
| 9 | To check if the selected value for deleting from the blog list and from database is working properly. | Delete S.N 1 blog from blog-list. | The blog should be deleted from the database and blog list too and redirected to the blog-list page. | Successfully blog is deleted from the database and blog list page and admin is redirected to the blog-list page. | Pass |

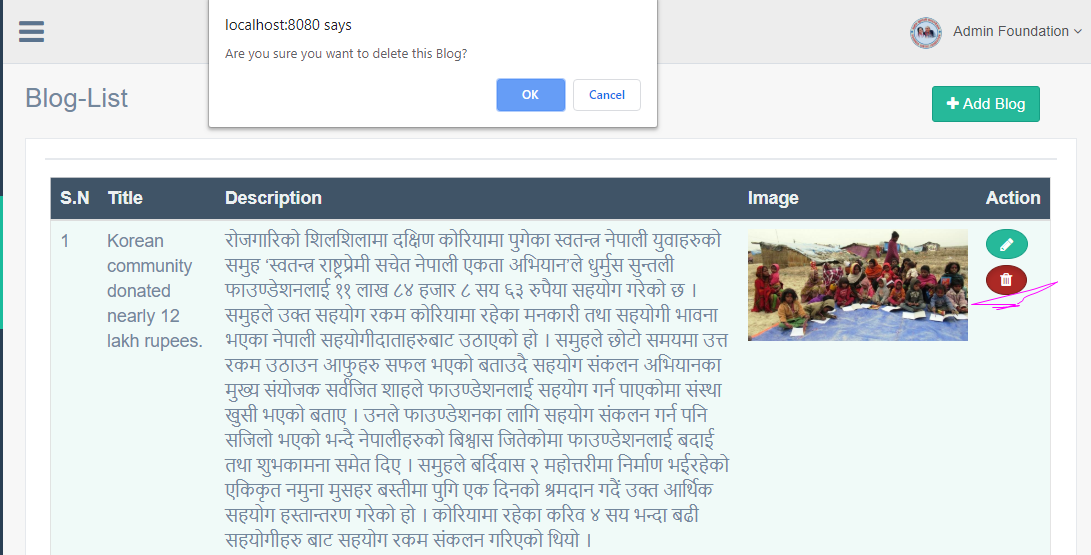


Fig 23: UI of blog-list page before deleting blog.

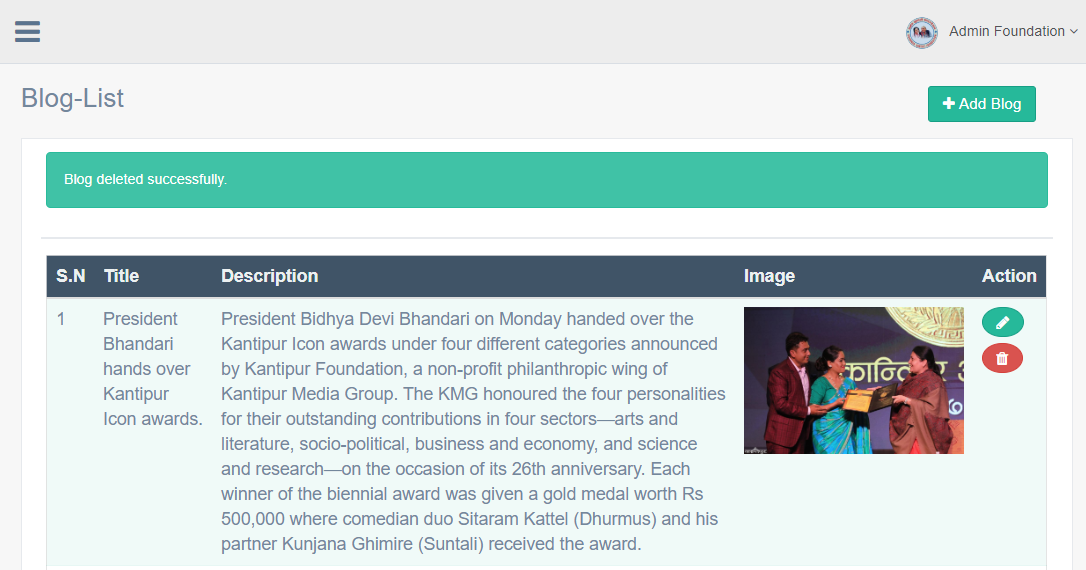


Fig 24: UI of blog-list page after deleting blog.

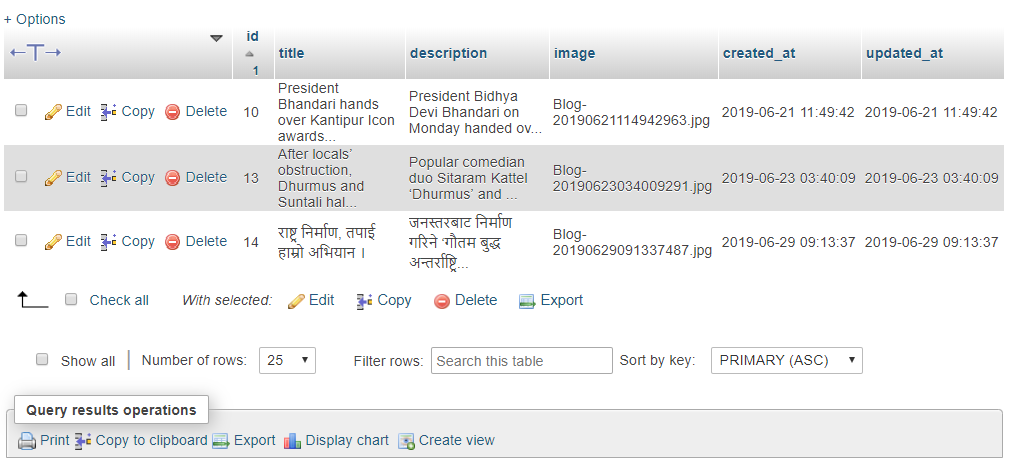


Fig 25: picture of dashboard after deleting blog.