NMS TESTING

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# LOGIN TESTING :

Inputs : Login ID (String) and password (String) Equivalence classes :

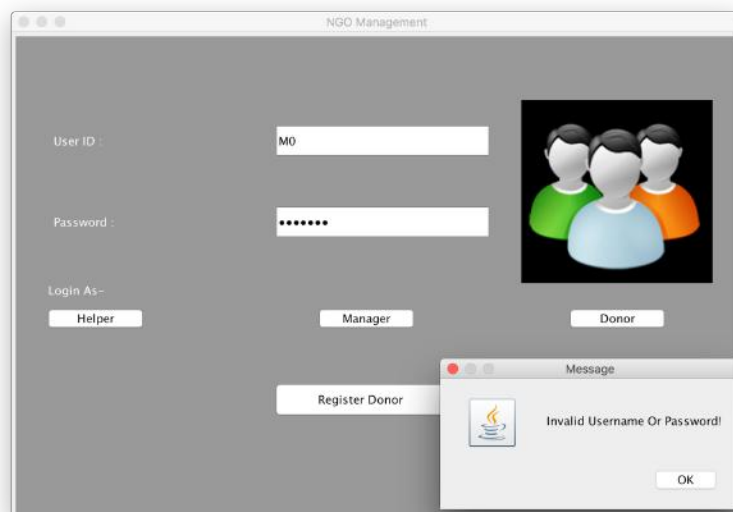• Manager
• Helper
• Donor
• Invalid user

Manager Login

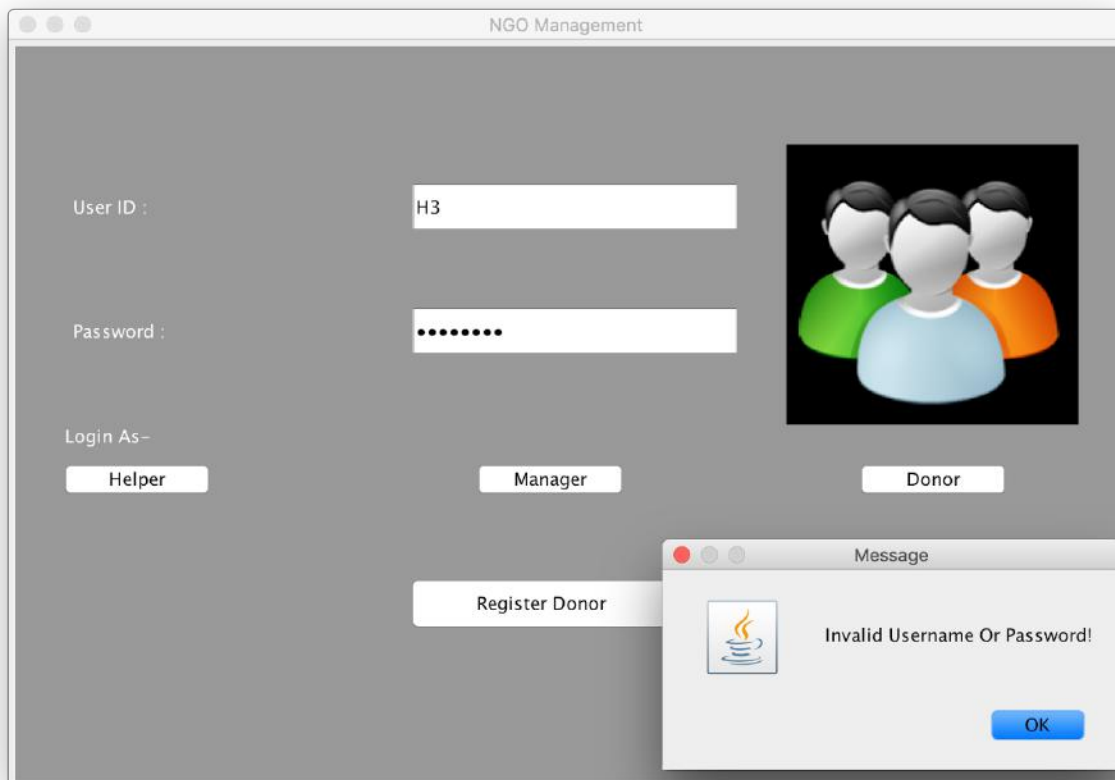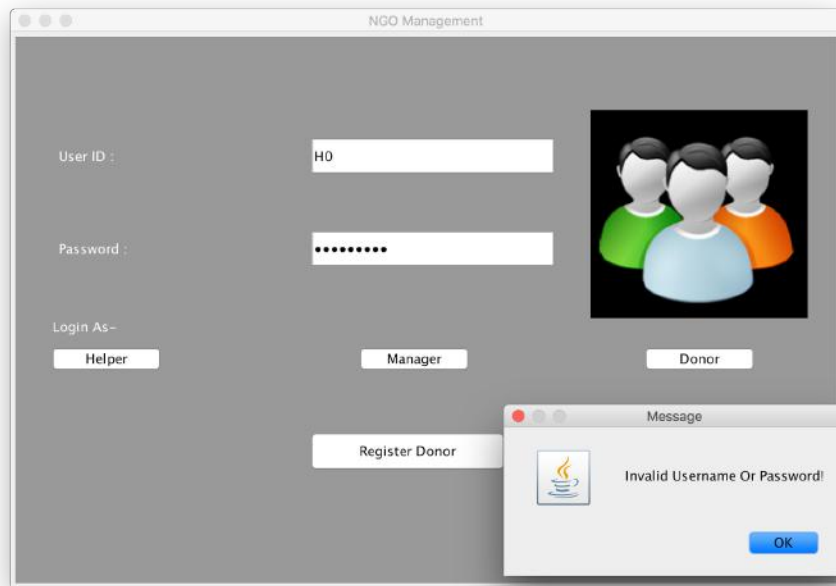| Class	Input	Expected Output	Actual Output
Manager	User - M5 Password - qwerty	Error Page - Incorrect Login	Error Page - Incorrect Login
Manager	User - M0 Password - qwerty1	Error Page - Incorrect Login	Error Page - Incorrect Login
Manager	User - M0 Password - qwerty	Directed To Manager Home Screen	Directed To Manager Home Screen
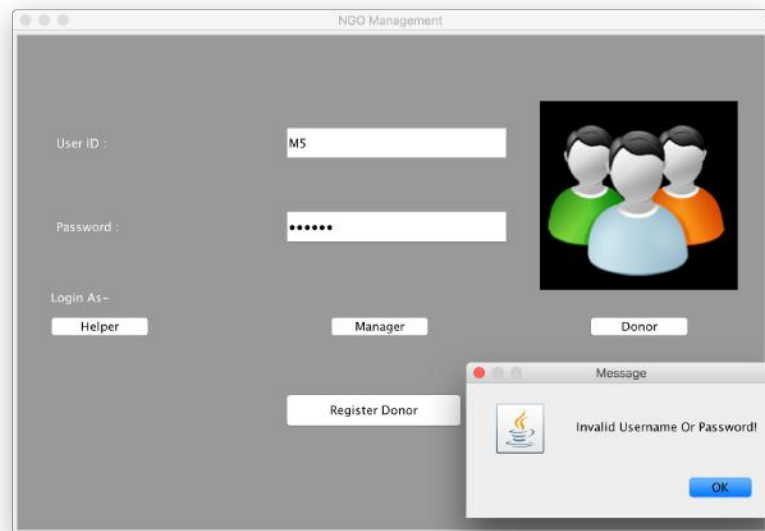
INCORRECT USERNAME

INCORRECT PASSWORD

CORRECT
PASSWORD AND USERNAME
MANAGER LOGIN PAGE

Helper Login

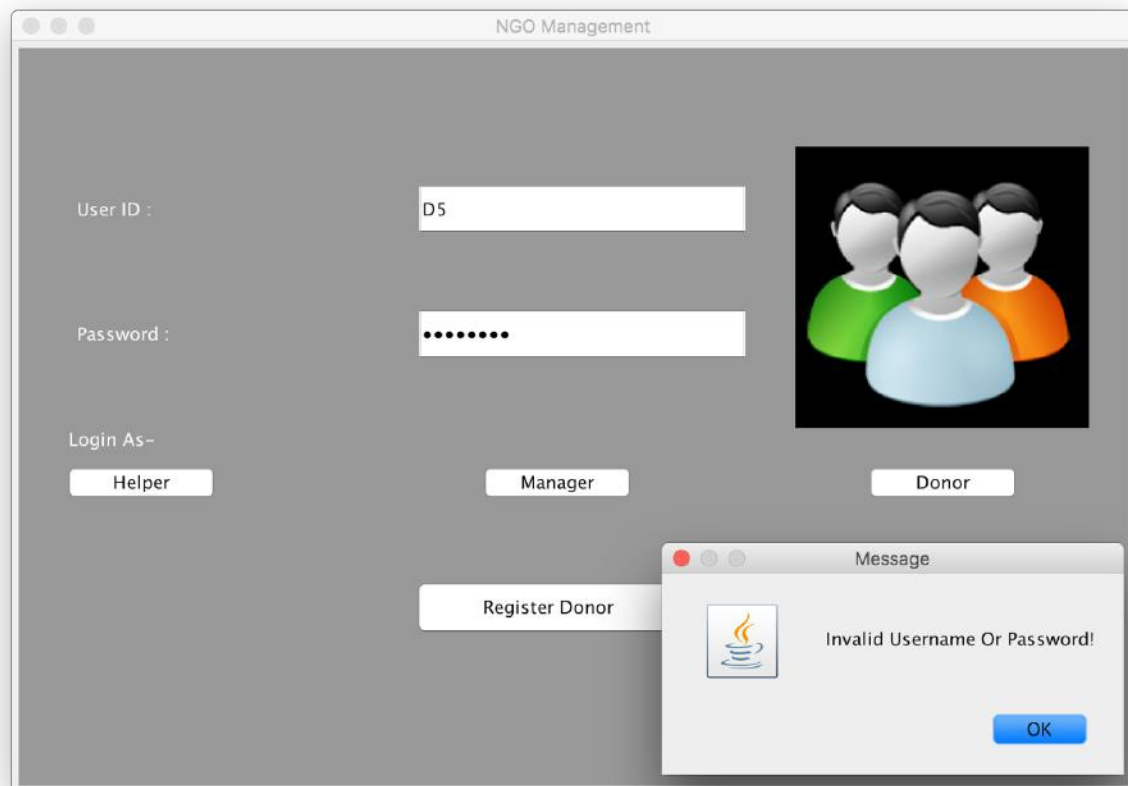| Class	Input	Expected Output	Actual Output
Helper	User - H3 Password - password	Error Page - Incorrect Login	Error Page - Incorrect Login
Helper	User - H0 Password - password1	Error Page - Incorrect Login	Error Page - Incorrect Login
Helper	User - H0 Password - password	Directed To Helper Home Screen	Directed To Helper Home Screen

INCORRECT USERNAME

INCORRECT PASSWORD

CORRECT PASSWORD CORRECT USERNAME

Donor Login

Class	Input	Expected Output	Actual Output
Donor	User - H3 Password - password	Error Page - Incorrect Login	Error Page - Incorrect Login
Donor	User - D0 Password - password1	Error Page - Incorrect Login	Error Page - Incorrect Login
Donor	User - D0 Password - password	Directed To Donor Home Screen	Directed To Donor Home Screen

INCORRECT USERNAME
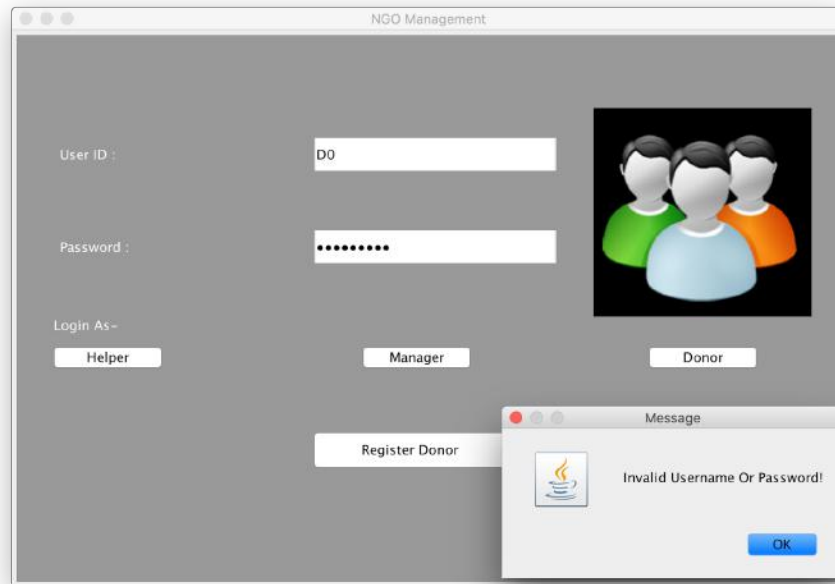
INCORRECT PASSWORD
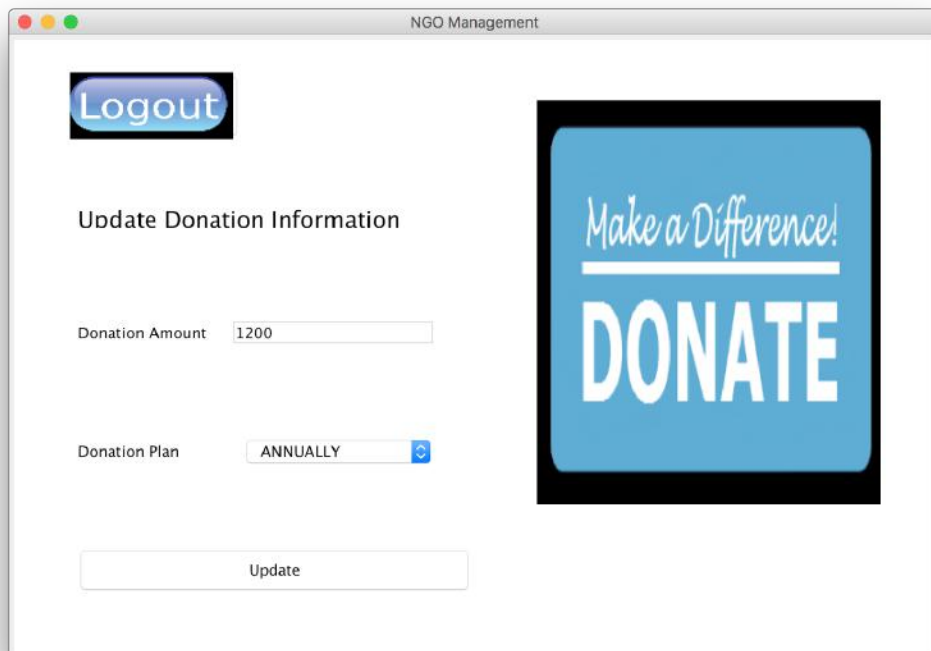
CORRECT USERNAME CORRECT PASSWORD
DONOR LOGIN PAGE

REGISTRATION TESTING :

Helper Registration

Class	Input	Expected Output	Actual Output
Helper	Registration With Empty Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Helper	Registration With Complete Fields	Helper Registered	Helper Registered

EMPTY FIELDS REGISTRATION

CORRECT INPUTS
HELPER REGISTERED

Student Registration

Class	Input	Expected Output	Actual Output
Student	Registration With Empty Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Student	Registration With Invalid Data	Error Page - Invalid Information	Error Page - Invalid Information
Student	Registration With Complete Fields	Student Registered	Student Registered

REGISTRATION WITH EMPTY FIELDS

REGISTRATION WITH INVALID DATA

REGISTRATION WITH CORRECT DATA
STUDENT REGISTERED

Donor Registration

Class	Input	Expected Output	Actual Output
Donor	Registration With Empty Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Donor	Registration With Empty Password Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Donor	Registration With Invalid Data	Error Page - Invalid Information	Error Page - Invalid Information
Donor	Registration With Negative Pledged Amount	Error Page - Invalid Information	Error Page - Invalid Information
Donor	Registration With Correct and Complete Information	Donor Registered	Donor Registered

REGISTRATION WITH EMPTY FIELDS

REGISTRATION WITH EMPTY PASSWORD FIELD

REGISTRATION WITH INVALID DATA
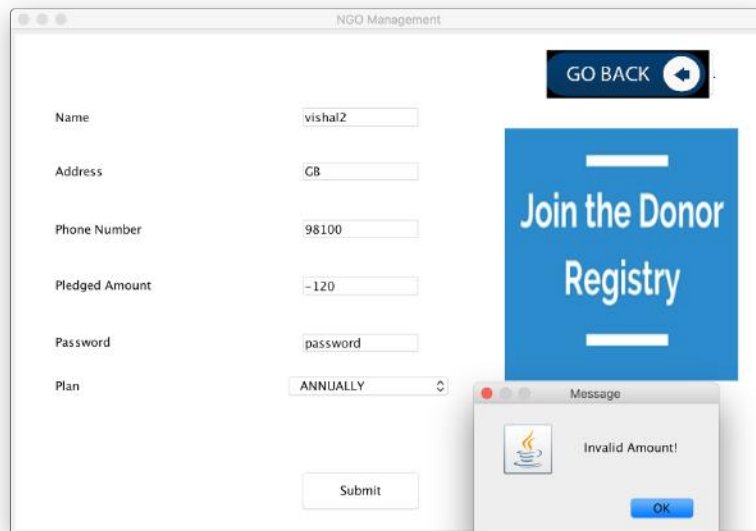
REGISTRATION WITH NEGATIVE PLEDGED AMOUNT

CORRECT REGISTRATION ANNUAL DONOR

CORRECT REGISTRATION SEMIANNUAL DONOR

UPDATE TESTING :

Donor Update

Class	Input	Expected Output	Actual Output
Donor	Update With Empty Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Donor	Update With Invalid Data (Negative Pledged Amount)	Error Page - Invalid Information	Error Page - Invalid Information
Donor	Update With Correct and Complete Information	Donor Updated	Donor Updated
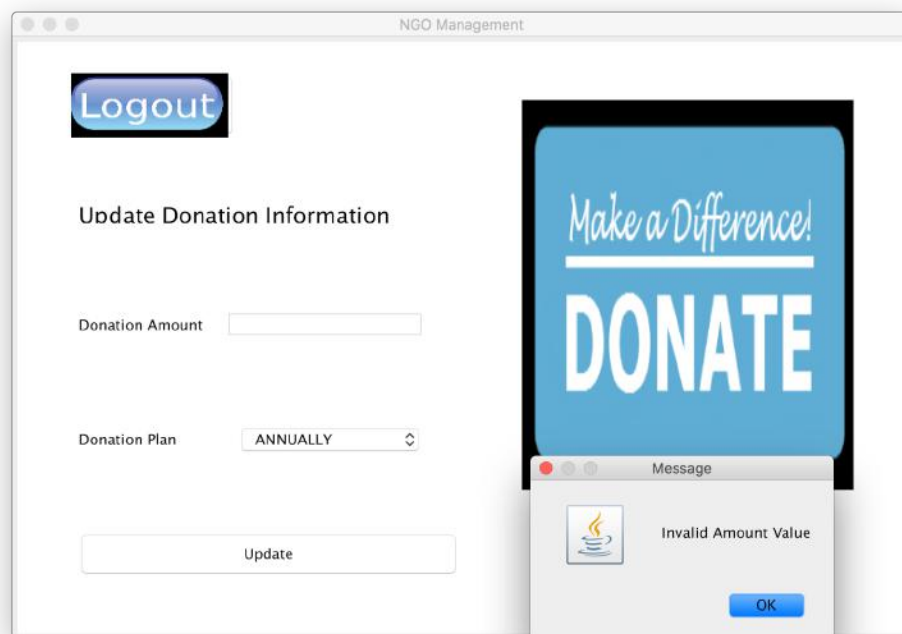
UPDATE DONOR WITH EMPTY FIELDS
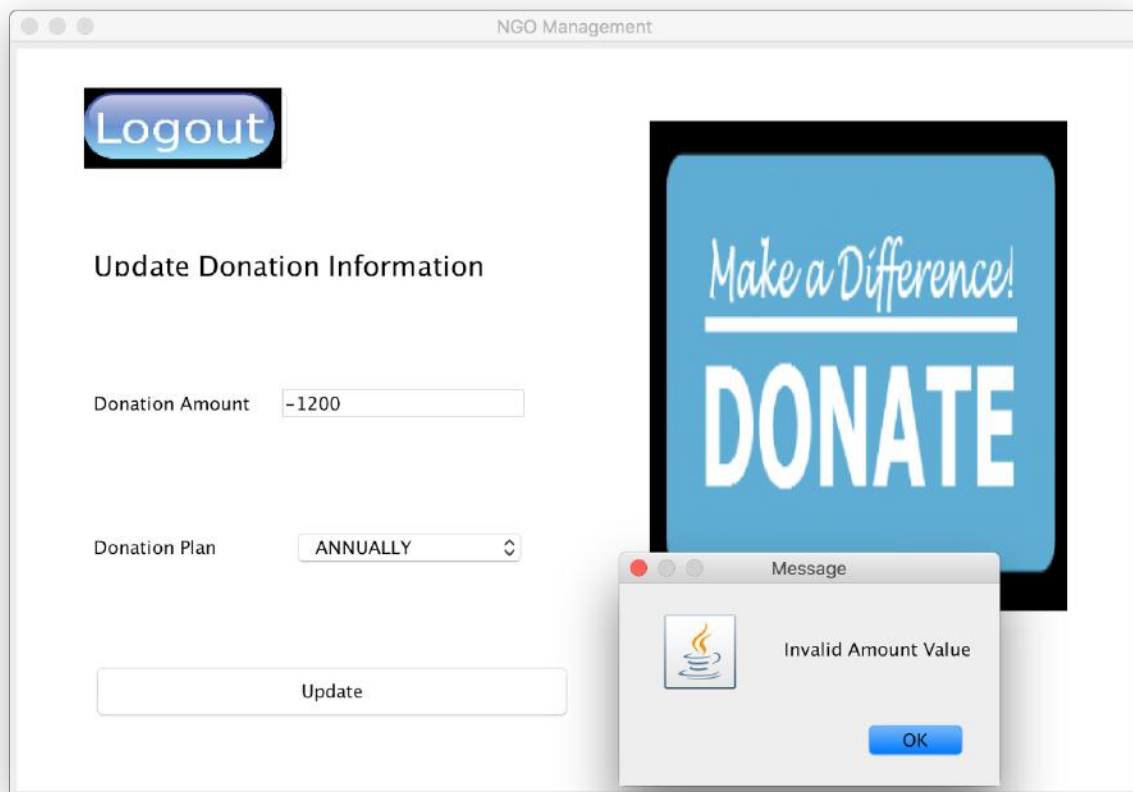
UPDATE DONOR WITH INVALID DATA
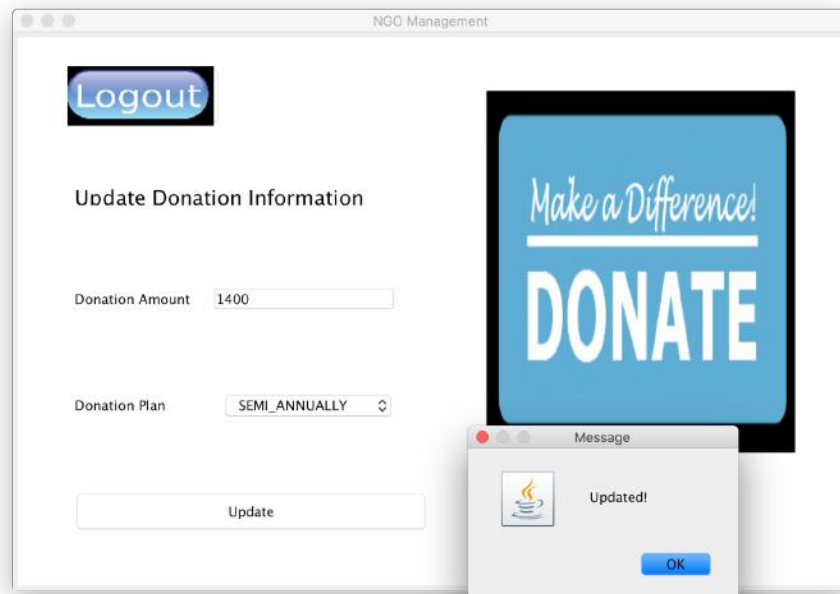
UPDATE WITH CORRECT FIELDS

DONOR UPDATED IN DATABASE

Helper Update

Class	Input	Expected Output	Actual Output
Helper	Update With Empty Fields	Error Page - Incomplete Information	Error Page - Incomplete Information
Helper	Update With Correct and Complete Information	Donor Updated	Donor Updated

PROOF
UPDATE HELPER WITH EMPTY FIELDS
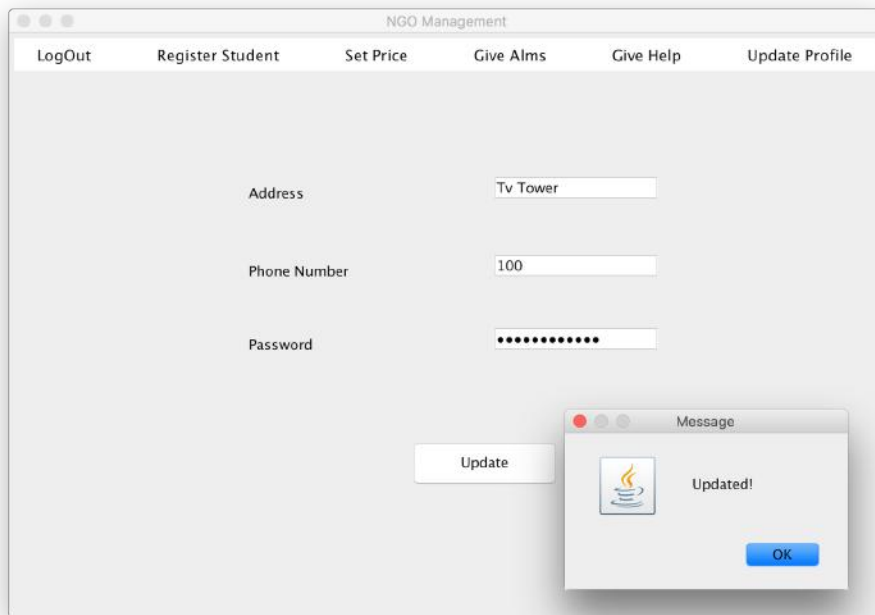
UPDATE HELPER - CORRECT UPDATE
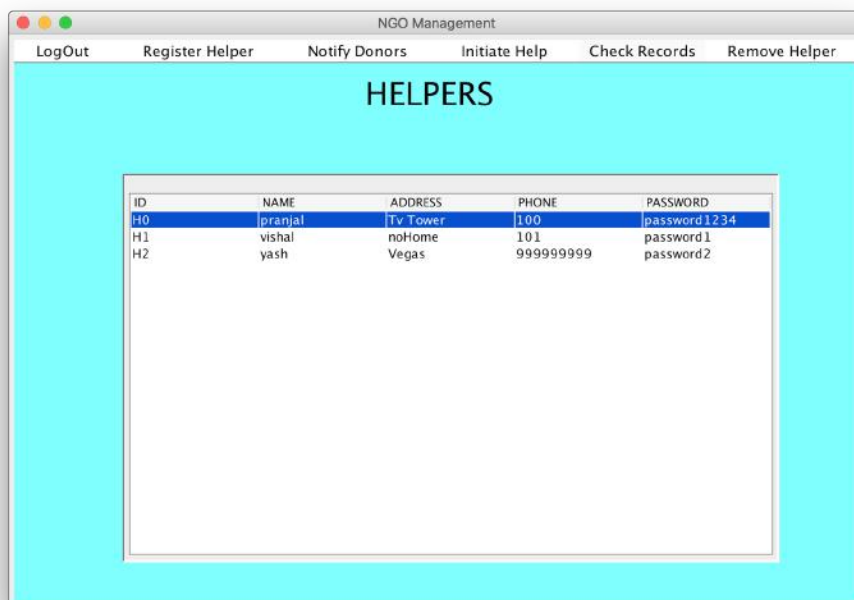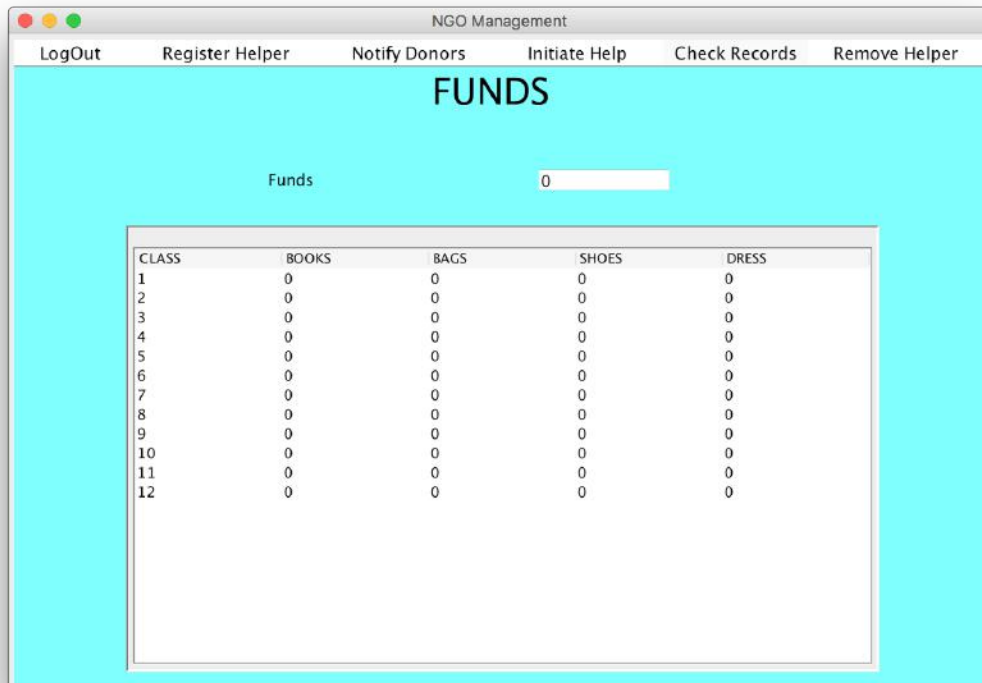
PROOF
HELPER UPDATED IN DATABASE

USE CASE TESTING :

Manager Use Case

Class	Input	Expected Output	Actual Output
Manager	Click Check Funds	Funds Table Displayed	Funds Table Displayed
Manager	Click Check Helpers	Helper Table Displayed	Helper Table Displayed
Manager	Click Check Students	Student Table Displayed	Student Table Displayed
Manager	Click Check Donors	Donor Table Displayed	Donor Table Displayed

CHECK FUNDS

NGO Management

LogOut	Register Helper	Notify Donors	Initiate Help	Check Records	Remove Helper

HELPERS

ID	NAME	ADDRESS	PHONE	PASSWORD
H0	pranjal	road GB	100	password
H1	vishal	noHome	101	password1
H2	yash	Vegas	999999999	password2

CHECK HELPERS

NGO Management

LogOut	Register Helper	Notify Donors	Initiate Help	Check Records	Remove Helper

STUDENTS

ID	NAME	CLASS	FEES	BOOKS	BAGS	SHOES	DRESS
S0	yash	12	2	2	2	2	2
S1	yash	12	2	2	2	2	2
S2	yash	12	6	2	3	4	5
S3	yash3	12	6	2	3	4	5
S4	yash3	12	6	2	3	4	5

CHECK STUDENTS
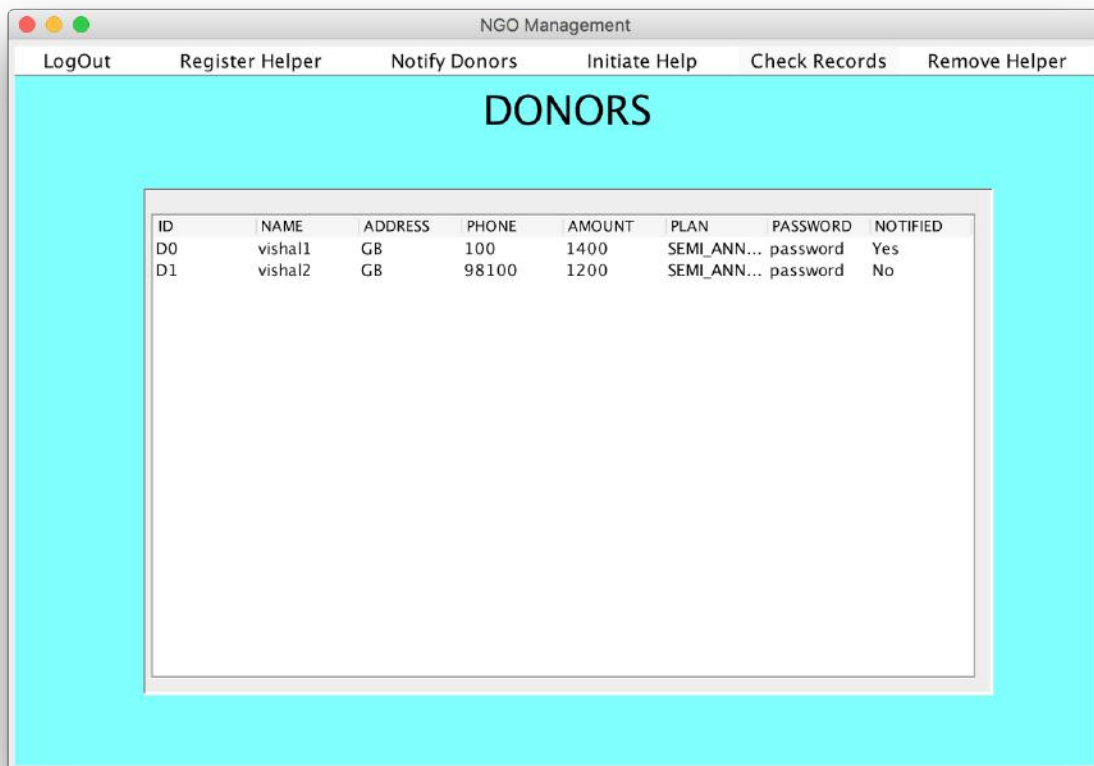
CHECK DONORS

Class	Input	Expected Output	Actual Output
Manager	Delete Helpers Invalid Id	Error Page - Invalid Information	Error Page - Invalid Information
Manager	Delete Helpers Correct Id	Helper Deleted	Helper Deleted
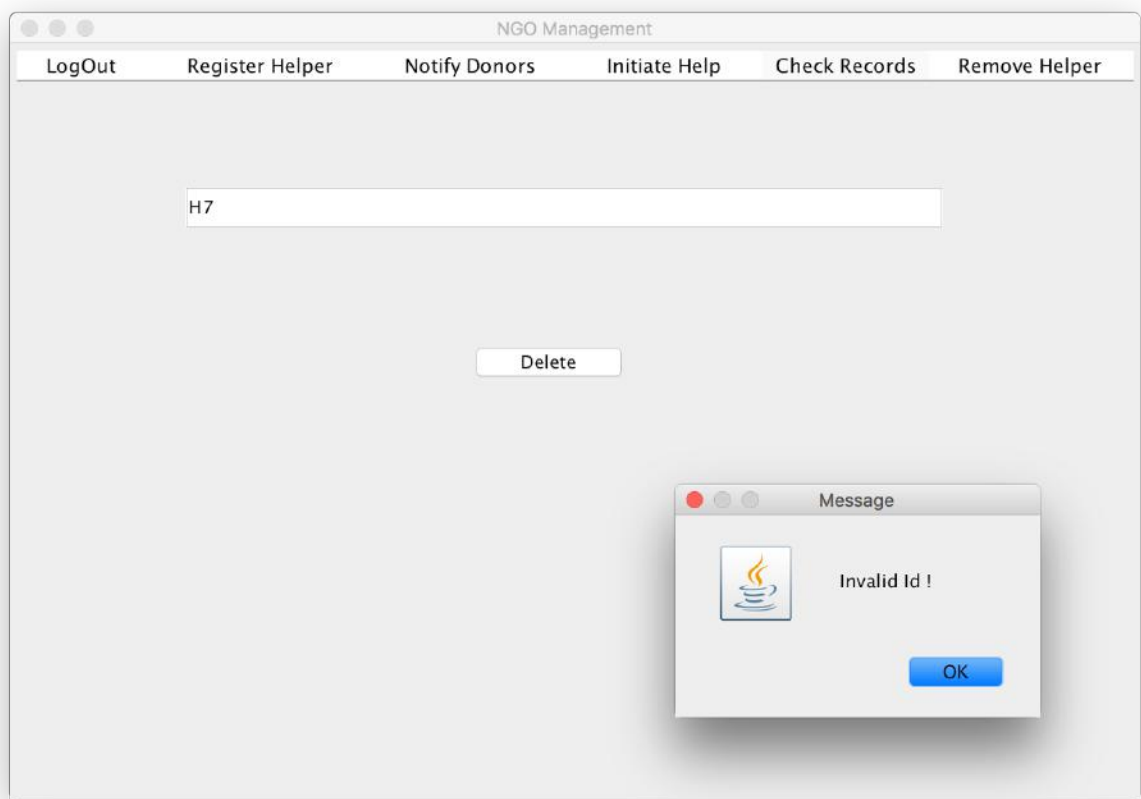
DELETE HELPER INVALID ID
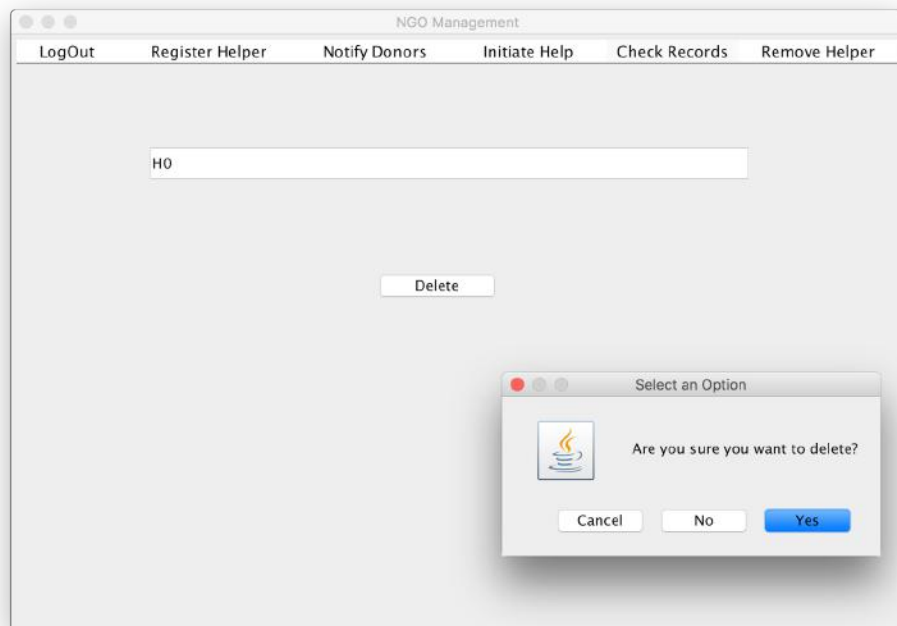
DELETE HELPER CORRECT ID
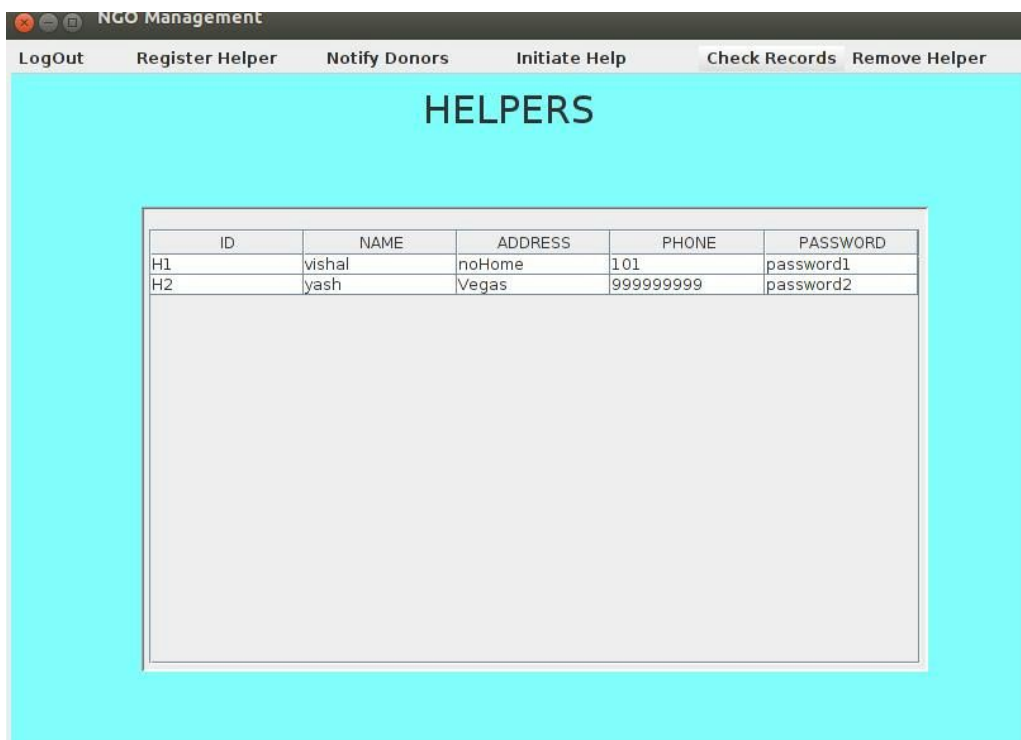
HELPER DELETED IN DATABASE

Helper Use Case

Class	Input	Expected Output	Actual Output
Helper	Minor Donation With Invalid Donation	Error- Invalid Donation	Error- Invalid Donation
Helper	Minor Donation With Invalid Donation Negative Donation	Error- Invalid Donation	Error- Invalid Donation
Helper	Minor Donation With Invalid Class(Negative Class)	Error- Invalid Class Type	Error- Invalid Class Type
Helper	Minor Donation With Invalid Class(Class greater than 12)	Error- Invalid Class Type	Error- Invalid Class Type
Helper	Minor Donation With Correct Fields	Donation Recorder	Donation Recorder

MINOR DONATION WITH INVALID DONATION

MINOR DONATION WITH NEGATIVE DONATION

MINOR DONATION WITH NEGATIVE CLASS INPUT

MINOR DONATION WITH CLASS INPUT GREATER THAN 12

MINOR DONATION CORRECT INPUT - DONATION RECORDED

Testing of the donation and helping of students :

First case covers the case where we have sufficient funds and we can help all students. 2 of the donors of notified as only 2 are necessary. When notified, donors receive a donate button which disappears when donated. Helpers get a list of students to help when manager clicks "Initiate Help".

In this case, all students are helped. Other options like Give Alms(Minor Donation), Check Expenses and Give Help are tested alongside with the flow.

FLOW :

Helper::Register Student → Manager::Notify Donors → Donor::Donate → Manager::Initiate Help → Helper:: Give Help

Testing : **Sufficient Funds**
Adding Students :

NGO Management

| LogOut | Register Student | Set Price | Give Alms | Give Help | Update Profile |

Name — Yash
Date of Birth — 11-11-1996
Class — 12
School — DP
Marks — 98
Family Income — 1000000
Gender — MALE

BOOKS — 2
BAGS — 0
SHOES — 0
DRESS — 0
FEES — 5000

Message
Successfully Registered!
ID :S13
OK

Register

NGO Management

| LogOut | Register Student | Set Price | Give Alms | Give Help | Update Profile |

Name — Ravi
Date of Birth — 12-02-1998
Class — 3
School — DPS
Marks — 90
Family Income — 1000000
Gender — MALE

BOOKS — 1
BAGS — 1
SHOES — 0
DRESS — 0
FEES — 3000

Message
Successfully Registered!
ID :S12
OK

Register
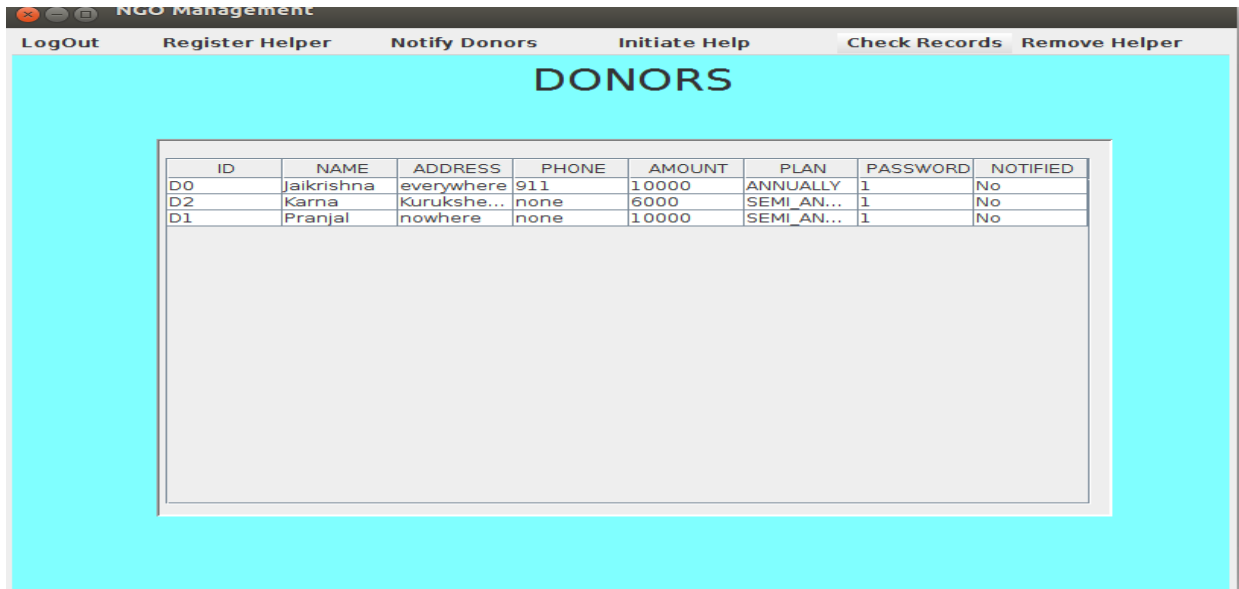
Notify Donors :
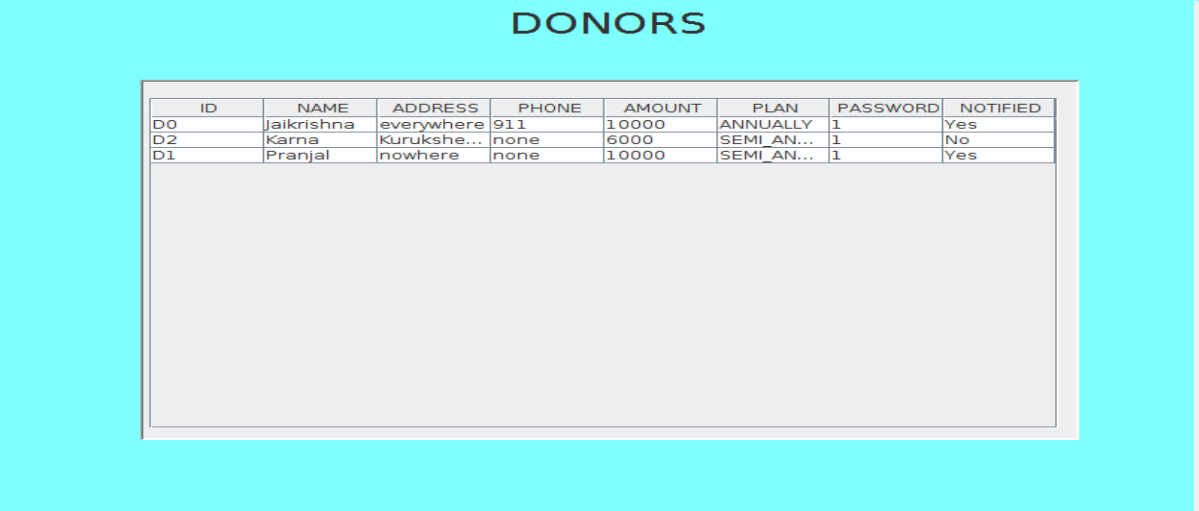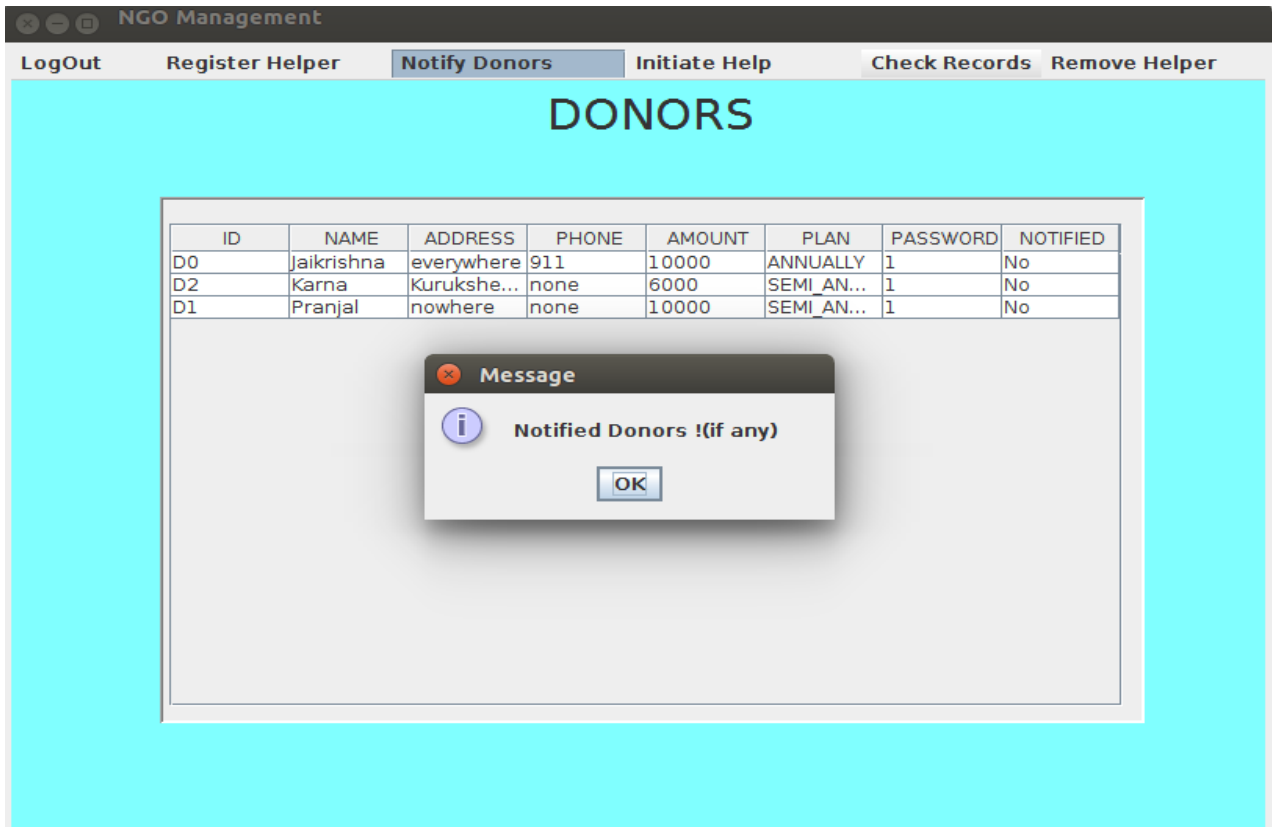
Donor :

After Donation : No button to update

Check Inventory :

FUNDS

CLASS	BOOKS	BAGS	SHOES	DRESS
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0

Funds 20000

Helper - > Give Help

GIVE HELP TO STUDENTS

ID	BOOKS	BAGS	DRESS	SHOES	FEES
S11	1	1	1	1	10000
S12	1	1	0	0	3000
S13	2	0	0	0	5000

Give Help

When no row is selected :
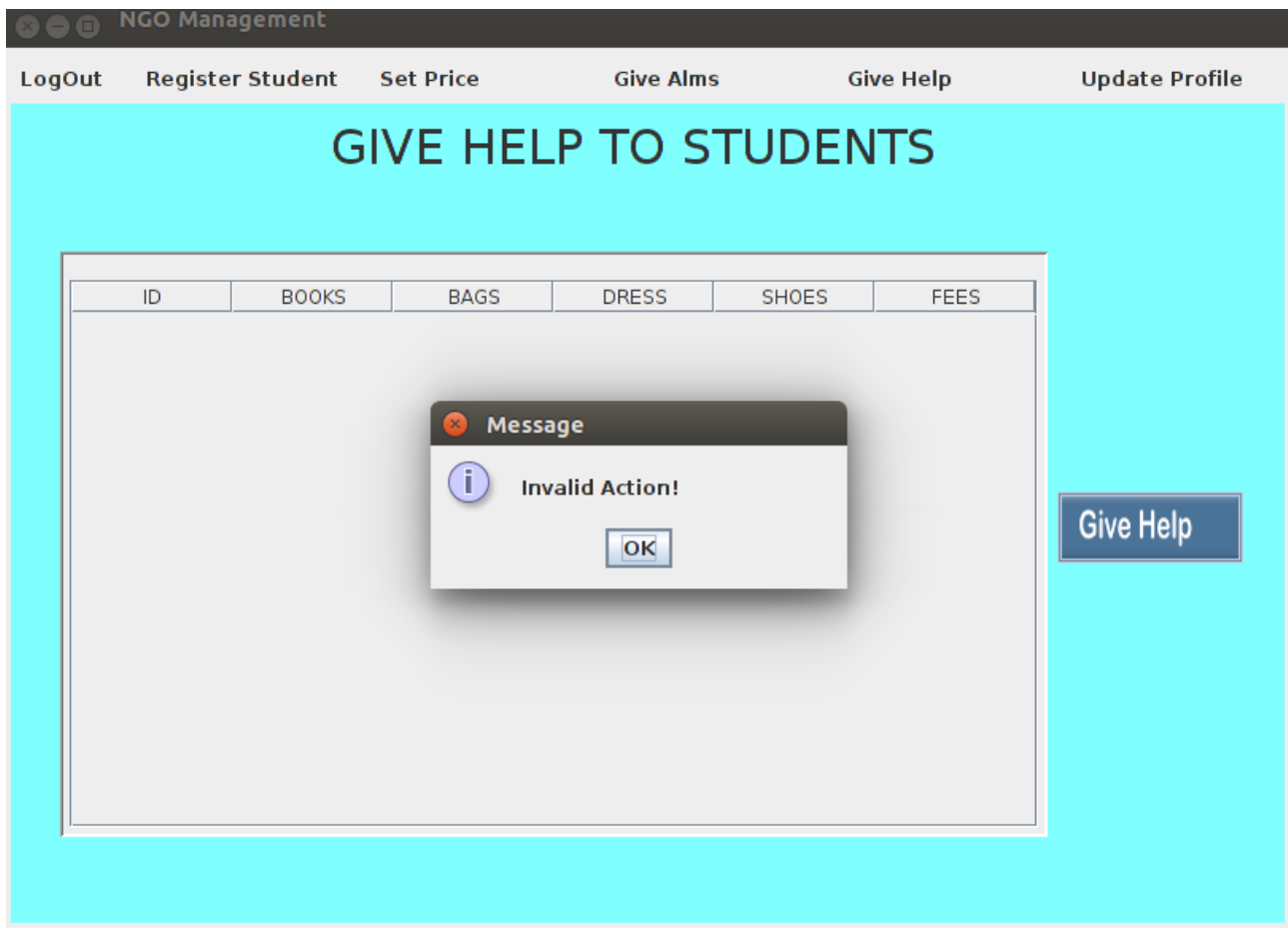
ALL CORRECT

Case : Insufficient Funds + Checking priority(marks)

Now, funds will be insufficient to help all students and the student with higher marks will be helped(income,gender are same).

Registering students :

Initiate Help :

Student with more marks selected :

GIVE HELP TO STUDENTS

ID	BOOKS	BAGS	DRESS	SHOES	FEES
S14	0	0	0	0	1000

Give Help

ALL CORRECT

Checking Priority (Gender)

Now, funds will be insufficient to help all students and the female student will be helped(income,marks are same).

Add Students : (S15 still remaining)

Initiate Help :

Girl given preference :

ALL CORRECT

Check Inventory+ Check Priority(Income) + Check Expenses

Now, funds will be insufficient to help all students and the student with lower family income will be helped(marks,gender are same). Also, change of inventory will be monitored.

Minor Donation :

Check Inventory :

Initiate Help :

Help given to student with low family income :

Check Inventory (again) :

Check Expenses :

ALL CORRECT

Check Donation Plan + Notify Donors :

Increase funds needed :

Notify Donors :

"D0" not notified because of ANNUAL donation plan.

ALL CORRECT

Next both donors donated money. And when again trying to notify donors again when money finished when all have donated max. no. of times :

ID	NAME	ADDRESS	PHONE	AMOUNT	PLAN	PASSWORD	NOTIFIED
D0	Jaikrishna	everywhere	911	10000	ANNUALLY	1	No
D2	Karna	Kurukshe...	none	6000	SEMI_AN...	1	No
D1	Pranjal	nowhere	none	10000	SEMI_AN...	1	No

Message

Notified Donors !(if any) Still need 21000 money

OK

ID	NAME	ADDRESS	PHONE	AMOUNT	PLAN	PASSWORD	NOTIFIED
D0	Jaikrishna	everywhere	911	10000	ANNUALLY	1	No
D2	Karna	Kurukshe...	none	6000	SEMI_AN...	1	No
D1	Pranjal	nowhere	none	10000	SEMI_AN...	1	No

ALL CORRECT

TESTING SET PRICE :

Incorrect data :

Negative numbers (Several such were tested):

Blank inputs (Several such were tested):

Incorrect inputs (Several such were tested):

PRICE TABLE

CLASS	BOOKS	BAGS	SHOES	DRESS
1	1	1	1	1
2	1	1	1	1
3	1	1	1	1
4	1	1	1	1
5	a	1	1	1
6	1	1	1	1
7	1	1	1	1
8	1	1	1	1
9	1	1	1	1
10	1	1	1	1
11	1	1	1	1
12	1	1	1	1

Message

Incorrect Values. No changes saved!

OK

Save

(Happy) Correct format :

Application restarted :

SQL :

```
mysql> select * from price;
+-------+-------+------+-------+-------+
| class | books | bags | shoes | dress |
+-------+-------+------+-------+-------+
|     1 |     1 |    1 |     1 |     1 |
|     2 |     2 |    1 |     1 |     1 |
|     3 |     1 |    1 |     1 |     1 |
|     4 |     1 |    1 |     1 |     7 |
|     5 |     4 |   18 |     1 |     1 |
|     6 |     1 |    1 |     1 |     1 |
|     7 |     1 |    1 |     1 |     1 |
|     8 |     1 |    1 |     5 |     1 |
|     9 |     1 |    1 |     1 |     1 |
|    10 |     1 |    1 |     1 |     1 |
|    11 |     1 |    1 |     1 |     1 |
|    12 |   112 |    1 |     1 |     1 |
+-------+-------+------+-------+-------+
12 rows in set (0.00 sec)
```