

Blackbox Testing for EktaFund Donation Website

IT-314 Software Engineering Group

19

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Signup/Register Page

Equivalence Classes for the Donor Registration Page.

1. Name

Equivalence Class	Description	Valid/Invalid
1. Name is alphabetic	Contains only alphabetic characters (e.g., "John")	Valid
2. Name is blank	No input for the name field	Invalid
3. Name contains special characters	Special characters like !@# present	Invalid
4. Name contains numbers	Numbers like 123 present in the name	Invalid
5. Name with leading/trailing spaces	Spaces before/after valid characters	Valid

2. Email

Equivalence Class	Description	Valid/Invalid
6. Valid email format	Email in the form user@example.com	Valid
7. Email is null or blank	No input for the email field	Invalid
8. Missing "@" symbol	Email without the @ character (e.g., userexample.com)	Invalid
9. Missing domain	Email without a domain after @ (e.g., user@)	Invalid
10. Email with spaces	Email contains spaces within it	Invalid
11. Email with multiple @ symbols	Multiple @ present (e.g., user@@example.com)	Invalid

3. Contact Number

Equivalence Class	Description	Valid/Invalid
12. Valid 10-digit number	Contains exactly 10 numeric characters	Valid
13. Contact number is null or blank	No input for the contact number field	Invalid
14. Less than 10 digits	Contains fewer than 10 digits	Invalid
15. More than 10 digits	Contains more than 10 digits	Invalid
16. Contains non-numeric characters	Letters or symbols included	Invalid

4. Password


Equivalence Class	Description	Valid/Invalid
17. Valid password	At least 8 characters, 1 uppercase, 1 lowercase, 1 special character	Valid
18. Password is null or blank	No input for the password field	Invalid
19. Password length < 8 characters	Fewer than 8 characters	Invalid
20. Missing uppercase letter	No uppercase letters in the password	Invalid
21. Missing lowercase letter	No lowercase letters in the password	Invalid
22. Missing special character	No special characters in the password	Invalid

Test Cases:

Test Case No.	Name	Email	Contact Number	Password	Expected Outcome	Classes Covered
1	John123		6543219876		Invalid	4, 7, 12, 18

2	Hannah Montana	h@annah.@montana@.com	2198765432	Hannah_#55	Invalid	1, 11, 12, 17
3	(Null)	jack.sparrow@pirates.life	12345678900	Jack!	Invalid	2, 6, 15, 23, 19
4	Steve Rogers	steve.rogers@@avengers.com	2345678901	(NULL)	Invalid	1, 6, 12, 18, 11
5	Isaac Newton	max.payne@remedy.games	98765	Bb#Smi	Invalid	22, 6, 14, 20, 1
6	Hannah Montana	jack.sparrow@pirates.life	1234567890	ETHAN_#567	Invalid	1, 6, 12, 21
7	Peter Parker	peter.parker@dailybugle.net	5678901234	Peter1234	Invalid	1, 6, 12, 22
8	Null	fionagallagherdomain.net	2345678901432432	Rem3dy@	Invalid	2, 8, 15, 17
9	NULL	NULL	NULL	Neo_Matrix	Invalid	2, 23, 13, 22, 7
10	Sarah Connor	sarah.connor@skynet.ai		Term!nator1	Invalid	1, 6, 13, 17
11	Ada Wong	ada.wong@residentevil.co	1122334455	W0ng@1234	Valid	1, 6, 12, 17

12	Fiona Gallagher	john123	98765	Claire_R	Invalid	1, 8, 14, 23
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Register

Register a New Account

Name

Fiona Gallagher

Email address

John

Password


Please include an '@' in the email address. 'john' is missing an '@'.

Contact Number

98765

Register

Already have an account? [Login here](#)



Register

Register a New Account

Password must be at least 8 characters long and include at least one uppercase letter, one lowercase letter, one number, and one special character.

Name
Fiona Gallagher

Email address
John@gmail.com


Password

Contact Number
9876543210

Register

Already have an account? [Login here](#)

13	John	h@annah.@montana@.com	9876543210	Peu34	Invalid	1, 11, 12, 22, 19
----	------	-----------------------	------------	-------	---------	-------------------



Register

Register a New Account

Password must be at least 8 characters long and include at least one uppercase letter, one lowercase letter, one number, and one special character.

Name
John

Email address
h@annah.@montana@.com

Password


A part following '@' should not contain the symbol '@'.

Contact Number
9876543210

Register

Already have an account? [Login here](#)

16	Bruce Wayne	bruce@wayneenterprises.com	6789012345	Batm@n123	Valid	1, 6, 12, 17
----	-------------	----------------------------	------------	-----------	-------	--------------



Register

Register a New Account

Name
Bruce Wayne

Email address
bruce@waineenterprises.com


Password

Contact Number
Batm@n123

[Register](#)

Already have an account? [Login here](#)

17	Dua Lipa	dualipa@gmail.com	98765392120	Du@Lipa98	Invalid	1, 6, 15, 17
----	----------	-------------------	-------------	-----------	---------	--------------



Register

Register a New Account

Contact number must be a valid 10-digit number.

Name
Dua Lipa

Email address
dualipa@gmail.com

Password

Contact Number
98765392120

[Register](#)

Already have an account? [Login here](#)

17		noone@gmail.com	9924302290	Ansh@2789	Invalid	2, 6, 12, 17
----	--	-----------------	------------	-----------	---------	--------------

Register

Register a New Account



Name is required.

Name

Email address

noone@gmail.com

Password

Contact Number

9924302290

Register

Already have an account? [Login here](#)

Login

Equivalence Classes for the Login Page

A. User Type

Equivalence Class	Description	Valid/Invalid
1. User type	It can be either "NGO", "Donor" or "Admin"	Valid

B. Email Address

Equivalence Class	Description	Valid/Invalid
2. Existing Email	Account already exist	Valid
3. Non existence Email	Registration not done/ Account doesn't exist	Invalid
4. Blank/ space	No input in the email field	Invalid

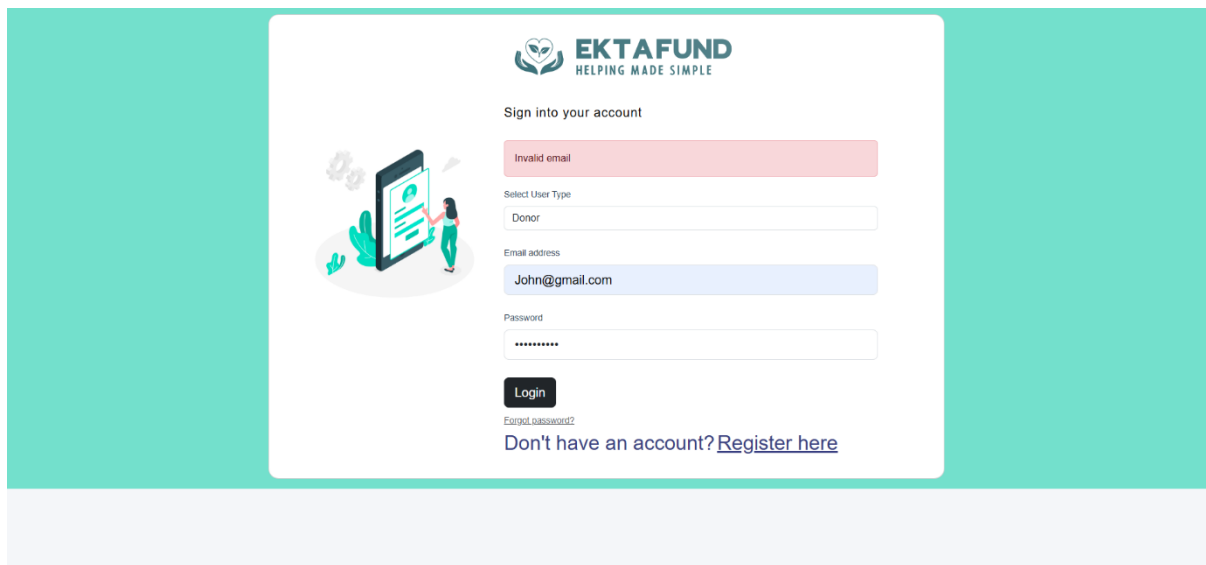
C. Password

Equivalence Class	Description	Valid/Invalid
5. Correct password	Password matches the existing email from database	Valid
6. Wrong password	Password doesn't match the email from database	Invalid
7. Blank/space	No input in the field	Invalid
8. Length < 8	Length of password is less than 8	Invalid

Test Cases:

Test Case No.	Email	Password	User type	Expected Outcome	Classes Covered
1		Ansh@2764	Donor	Invalid	1, 4, 6
2	ansh21983	Nothinf@2903	NGO	Invalid	3, 6, 1
3	Jahan@gmail.com	asdghjk	Donor	Invalid	1, 2, 6
4	noone@gmail.com		NGO	Invalid	1, 7, 2
5	notregistered@gmail.com	Not@34567	Admin	Invalid	1, 3, 6
6	registered@gmail.com	Reg@12345	Donor	Valid	1, 2, 5



7	John@gmail.com	John@3456	Donor	Invalid	1, 2, 6
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The screenshot shows the EKTAFUND login interface. The header includes the logo and tagline 'EKTAFUND HELPING MADE SIMPLE'. Below the header, there is an illustration of a person interacting with a large smartphone. The login form contains the following fields and elements:

- Sign into your account**: A heading above the input fields.
- Email address**: A text input field containing 'John@gmail.com'. A red error message 'Invalid email' is displayed above this field.
- Password**: A text input field with masked characters (dots).
- Login**: A button to submit the login form.
- Forgot password?**: A link below the login button.
- Don't have an account? Register here**: A link at the bottom of the login section.

8	202210303@gmail.com	Ansh@32802	Donor	Invalid	1, 2, 6
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Sign into your account

Invalid password

Select User Type

Donor

Email address

202201303@gmail.com



Password

Login

[Forgot password?](#)

Don't have an account? [Register here](#)

9			NGO	Invalid	4, 7 ,1
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Sign into your account

Select User Type

NGO

Email address

202201303@gmail.com



Password

Login

Please fill in this field.

[Forgot password?](#)

Don't have an account? [Register here](#)

Sign into your account

Select User Type

NGO

Email address

Password

Login

Please fill in this field.

[Forgot password?](#)

Don't have an account? [Register here](#)

Reset Password

Equivalence Class

A. Email address

Equivalence Class	Description	Valid/Invalid
1. Blank/space	No input in the field	Invalid
2. Correct Email	Email address of existing account	Valid
3. Incorrect email	Email address doesn't match from any values in existing account	Invalid

B. Old Password

Equivalence Class	Description	Valid/Invalid
4. Blank/space	No input in the field	Invalid
5. Wrong password	Doesn't match with the email address	Invalid
6. Correct password	Matches with the email address	Valid

C. New Password

Equivalence Class	Description	Valid/Invalid
7. Valid password	At least 8 characters, 1 uppercase, 1 lowercase, 1 special character	Valid
8. Password is null or blank	No input for the password field	Invalid
9. Password length < 8 characters	Fewer than 8 characters	Invalid
10. Missing uppercase letter	No uppercase letters in the password	Invalid
11. Missing lowercase letter	No lowercase letters in the password	Invalid

12. Missing special character	No special characters in the password	Invalid
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Test Cases:

Test Case No.	Email	Old Password	New Password	Expected Outcome	Classes Covered
1		UniqueOldPass!@34	UniqueNewPass!@9	Invalid	1, 6, 7
2	alice.johnson@example.com	ValidOldPass@#56	AliceNew@2023	Valid	2, 6, 7
3	notregistered@domain.org	ValidPass!@123	NewUniquePass#2024	Invalid	3, 6, 7
4	ethan.hunt@spyagency.com		EthanNew@42	Invalid	2, 4, 7
5	diana.prince@justice.org	WrongPass12@	DianaNew@123	Invalid	2, 5, 7
6	peter.parker@dailybugle.net	CorrectOldPass@123	Short1!	Invalid	2, 6, 9
7	bruce.banner@hulkmail.com	BrucePass!@789	lowercasepass@456	Invalid	2, 6, 10
8	lara.croft@adventures.net	LaraOldPass@123	UPPERCASEPASS@789	Invalid	2, 6, 11
9	tony.stark@starkindustries.com	TonyOldPass@42	NewPassword123	Invalid	2, 6, 12
10	clark.kent@dailyplanet.org	ClarkOldPass@55		Invalid	2, 6, 8
11				Invalid	1, 4, 8
12			Something!456	Invalid	1, 4, 7



Reset Password

Password updated successfully

202201303@gmail.com

Enter your email address

Enter your old password

Enter your new password

Reset Password

Remember your password? [Login here](#)



Reset Password

Invalid email or old password

John@gmail.com

Enter your email address

Enter your old password

Enter your new password

Reset Password

Remember your password? [Login here](#)

Make a donation

Specifications and Derived Equivalence Classes

Name

1. Name can contains anything alphabets,numeric,space,special charactor (valid).
2. Name is blank (invalid).

NGO Name

3. NGO Name can contains anything alphabets,numeric,space,special charactor (valid).
4. NGO Name is blank (invalid).

Mobile Number

5. Mobile Number is exactly 10 digits long (valid).
6. Mobile Number is less than 10 digits (invalid).
7. Mobile Number is more than 10 digits (invalid).
8. Mobile Number contains alphabets (invalid).
9. Mobile Number contains special characters (invalid).
10. Mobile Number contains spaces (invalid).
11. Mobile Number is blank (invalid).

Donation Amount

12. Donation Amount is a positive number (valid).
13. Donation Amount is zero or negative (invalid).
14. Donation Amount is blank (invalid).
15. Donation Amount contains non-numeric characters (invalid).

Test Case ID	Name	NGO Name	Mobile Number	Amount	Expected Outcome	Derived Class(es) Covered	Valid/Invalid
1	Rahul	Green Earth Alliance	1234567890	100	Donation processed successfully	1, 3,5,12	Valid
2	""	Helping Hands	1234567890	100	Error: "All fields are required"	2, 3,5,12	Invalid
3	12345	Harmony for Humanity	""	100	Error: "All fields are required"	1, 3,11,12	InValid
4	Saptu#	""	1234567890	100	Error: "All fields are required"	1, 4, 11, 12	Invalid
5	Virat@18	Harmony for Humanity	1234567890	""	Error: "All fields are required"	1,3,5,14	Invalid
6	Kohli	Helping Hands	123456789	100	Error: "Invalid mobile number"	1, 3,6,12	Invalid
7	Ab de@17	Green Earth Alliance	12345678901	100	Error: "Invalid mobile number"	1, 3,7,12	Invalid
8	sanju	Helping Hands	123456789a	100	Error: "Invalid mobile number"	1, 3,8,12	Invalid
9	malinga	Harmony for Humanity	123 456 7890	100	Error: "Invalid mobile number"	1, 3,10,12	Invalid

10	jay	Helping Hands	123456789@	209	Error: "Invalid mobile number"	1, 3,9,12	Invalid
11	xyz@abc	Green Earth Alliance	1234567890	-50	Error: "Invalid donation amount"	1, 3,5,13	Invalid
12	vineet	Hel ping hand	1234567890	20	Donation processed successful	1,3,5,12	valid
13	#@r\$#	Green Earth Alliance	1234567890	3o3	Error: "Invalid donation amount"	1,3,5,15	Invalid

Make a Donation

Name:

Mobile Number:

Donation Amount (₹):

NGO Name:

Donate Now

Donation Receipt

Receipt ID: 0ba566fd07e15e988dcf0d03231cca1f

Date: 12/1/2024, 7:14:00 PM

Amount: 1585

Donor ID: 10799878134948

Transaction ID: 0ba566fd07e15e988dcf0d03231cca1f

Thank you for your generous donation!

For more information, visit our website or contact us.

This receipt is issued for tax purposes and confirms your donation.

All inputs are valid and receipt generated.

Make a Donation

Name:

Sumit

Mobile Number:

93747474907|

Donat



Please match the requested format.

49

NGO Name:

temp

Donate Now

Mobile number is invalid.

Make a Donation

Name:


Sumit

Mobile Number:

9374747490

Donation Amount (₹):

0|

NGO  Value must be greater than or equal to 1.

temp

Donate Now

Donation amount is 0(Invalid)

Make a Donation

Name:

Sumit

Mobile Number:

9374747490

Donation Amount (₹):

-1000|

NGO



Value must be greater than or equal to 1.

temp

Donate Now

Donation amount is negative(Invalid)

Donor review:

Derived Equivalence Classes with Numbering:

Name

1. Name can contains anything alphabets,numeric,space,special charactor (valid).
2. Name is blank (invalid).

NGO Name

3. NGO Name can contains anything alphabets,numeric,space,special charactor (valid).
4. NGO Name is blank (invalid).

○

Message:

Valid Equivalence Classes:

5. Message can contains anything alphabets,numeric,space,special charactor (valid).

Invalid Equivalence Classes:

6. Message is blank (e.g., "").

Test Case ID	NGO Name	Donor Name	Message	Expected Outcome	Derived Class(es) Covered	Valid/Invalid
1	Care & Share Trust	Rohit#45	Great support	Review submitted successfully	1,3,5	Valid
2	Helping Hands	MS@7	Great support	Review submitted successfully	1,3,5	Valid

3	Care & Share Trust	maxwell\$	12345	Review submitted successfully	1,3,5	Valid
4	Global Relief Foundation	Hardik	Great support	Review submitted successfully	1,3,5	Valid
5	Helping Hands	""	Great support	Error: "All fields are required"	1,4,5	Invalid
6	""	Arijit@singh	Great support	Error: "All fields are required"	2,3,5	Invalid
7	Care & Share Trust	Aatifaslam	""	Error: "Message cannot be empty"	1,3,6	Invalid
8	Global Relief Foundation!!	Vishalmishra	Great support	Review submitted successfully	1,3,5	Valid
9	Care & Share Trust	Mohit	!@#\$%^&*()	Review submitted successfully	1,3,5	Valid
10	Helping123	Ankittiwari	Special characters @	Review submitted successfully	1,3,5	Valid
11	""	""	""	Error: "All fields are required"	2,4,6	Invalid
12	Smile Makers Society	Shreya@Gh	"Great support!"	Review submitted successfully	1,3,5	Valid

Donor Review

temp

Donor Name



Please fill out this field.

\$#RS##hfhri

Submit

Donor Name is Empty(Invalid)

Donor Review

temp

rudra

Message



Please fill out this field.

Submit

Message is Empty(Invalid)

Donor Review

temp

M@ngukiya

#@\$haha!!!

Submit

Donor Review

temp

M@ngukiya

Message

Submit

Review submitted successfully!

All inputs are valid review submitted successfully.

NGO registration:

Name

1. Name can contains anything alphabets,numeric,space,special charactor (valid).
2. Name is blank (invalid).

NGO Name

3. NGO Name can contains anything alphabets,numeric,space,special charactor (valid).
4. NGO Name is blank (invalid).

Contact Number

5. Mobile Number is exactly 10 digits long (valid).
6. Mobile Number is less than 10 digits (invalid).
7. Mobile Number is more than 10 digits (invalid).
8. Mobile Number contains alphabets (invalid).
9. Mobile Number contains special characters (invalid).
10. Mobile Number contains spaces (invalid).
11. Mobile Number is blank (invalid).

Email Address

- 12) email address (e.g., "[example@domain.com](#)") (valid).
- 13) email address can have leading space or after email can have space(e.g., "[example@domain.com](#) ") (valid).
- 14) : rest of all format is invalid (e.g., "[example@domain.com](#)", "[example@@domain.com](#)", [exampledomain.com](#)) (Invalid).
- 15): Blank email address (e.g., "").

Password

- 16): Valid password (at least 6 characters, containing uppercase, lowercase, numbers, and special characters; e.g., "Pass@123").

17): Password less than 6 characters (e.g., "P@123").

18): Password missing an uppercase letter (e.g., "pass@123").

19): Password missing a special character (e.g., "Pass123").

20): Password missing a Lowercase character (e.g., "PASS123").

21): Password missing a number (e.g., "Pass@").

22): Blank password (e.g., "").

Test Case ID	NGO Name	Contact Person Name	Contact Number	Email Address	Password	Expected Outcome	Valid/Invalid	Classes Covered
1	Harmony for Humanity	D@Miller	9876543210	example@domain.com	Pass@123	Accepted	Valid	1,3,5,12,16
2	""	jay	9876543210	example@domain.com	Pass@123	Error: "All fields are required"	Invalid	2,3,5,12,16
3	Bright Future Initiative	""	12345	example@domain.com	Pass@123	Error: "All fields are required"	Invalid	1,4,5,12,16
4	Harmony for Humanity	Meet\$@	""	example@domain	Pass@123	Error: "All fields are required"	Invalid	1,3,11,12,16
5	Helping Hands	\$um!t	9876543210	""	Pass@123	Error: "All fields are required"	Invalid	1,3,5,15,16
6	Harmony for Humanity	Mukesh	9876543210	example@domain.com	""	Error: "All fields are required"	Invalid	1,3,5,12,22
7	""	""	""	""	""	Error: "All fields are required"	Invalid	2,4,11,15,22

8	Bright Future Initiative	M@ngukiya	98765432101	example@domain.com	Pass@123	Error: "Invalid mobile number"	Invalid	1,7,5,12,16
9	Harmony for Humanity	B2@Ash	98765432	example@domain.com	Pass@123	Error: "Invalid mobile number"	Invalid	1, 6, 5, 12, 16
10	Helping Hands	Tulsikumar#123	98765a3210	example@domain.com	Pass@123	Error: "Invalid mobile number"	Invalid	1,3,8,12,16
11	Bright Future Initiative	Amittrivedi@45	98765@3210	example121@domain.com	Pass@123	Error: "Invalid mobile number"	Invalid	1,3,9,12,16
12	Helping Hands	Radhe&krishna	9 87653210	example@@domain.com	Pass@123	Error: "Invalid Email"	Invalid	1,3,5,14,16
13	Bright Future Initiative	Chaman	9876543210	example233@domain.com	Pass@	Error: "Invalid Password "	Invalid	1,3,5,12,17
14	Helping Hands	Mitul	9876543210	example@domain.com	pass@123	Error: "Invalid Password "	Invalid	1, 3, 5, 13, 18
15	Safe Shelter Project	\$hrddh@	9876543210	example@domain.com	pass123	Error: "Invalid Password "	Invalid	1, 3, 5, 12, 19
16	Helping Hands	Shushant@shinh	9876543210	example@domain.com	PAASS@123	Error: "Invalid Password "	Invalid	1, 3, 5, 12, 20
17	Safe Shelter Project	Akshaykumar	9876543210	example@domain.com	PASS@pass	Error: "Invalid Password "	Invalid	1, 3, 5, 12, 21
18	Helping Hands	\$tevJobs	987653210	example@domain.com	Pass@123	Error: "Invalid Email"	Invalid	1,3,5,14,16

X

NGO Registration

Green Earth Initiative

Urban Area: "123 Elm Street, South Africa, NY." Rural Area: "Village Green, Block 5, Bihar, In

Environment, Animal Welfare, Disaster Relief.

An earth free of plastic pollution.

Promoting sustainable farming practices among local communities

AB de Villiers

7377373737

abdevilliers17@gmail.com

abdevilliers17@gmail.com

.....

Bela-Bela South Africa

Upload Updated 12A:

Choose File Donation_Receipt_Sumit.pdf

Upload Updated 80G:

Choose File Donation_Receipt_Sumit.pdf

Submit

localhost:3000 says
NGO registered successfully!

OK

7377373737

abdevilliers17@gmail.com

.....

Bela-Bela South Africa

Upload Updated 12A:

Choose File Donation_Receipt_Sumit.pdf

Upload Updated 80G:

Choose File Donation_Receipt_Sumit.pdf


Processing...

Contact Us

DONATE

SIGN OUT

Received File

 Green Earth Initiative_1733063804004.pdf

Open

PDF X is a productive PDF reader & editor for Windows.

• View

• Edit

• Print

• Annotate

• Sign

• Convert

☐ Don't show this message again

All input are valid NGO registered successfully

localhost:3000 says

Error: Password must be at least 8 characters long and include at least one uppercase letter, one lowercase letter, one number, and one special character.

OK

6565656565

abde17@gmail.com

.....

Bela-Bela south Africa

Upload Updated 12A:

Choose File Donation_Receipt_ufunuf dndnun.pdf

Upload Updated 80G:

Choose File donation_report (1).pdf

Processing...

Password doesn't fulfill criteria.(Invalid)

NGO Registration

Enter NGO Name

Urban Area: "123 Elm Street, South Africa, NY." Rural Area: "Village Green, Block 5, Bihar, In

Environment, Animal Welfare, Disaster Relief.

Vision of your Organization

Mission of your Organization

AB de Villiers

6565656565

abdevilliers17@gmail.com


Some inputs are Empty(Invalid)

AB de villiers

6565656565

abdevilliers17@@gmail.com

.....

 A part following '@' should not contain the symbol '@'.

B@la-B@la southafrica

Upload Updated 12A:

Donation_Receipt_ufunuf dndnun.pdf

Upload Updated 80G:

donation_report.pdf

Email format is invalid.