
PROJECT: EXPENSIFY

IT314 – SOFTWARE ENGINEERING

GROUP 26

TASK : SYSTEM TESTING (PROFILE UPDATE & PASSWORD SET)



Done by: Detroja Avi – 202201452

GROUP MEMBERS:

ID	NAME
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BLACKBOX TESTING

Manage Your Account :

i)Profile

CONSTRAINTS

Image:

- Image size must be less than 10MB for valid.

Username:

- Username must be between 4 and 64 characters long.
- Username must contain one non-number character.
- Username can only contain letters, numbers and '_' or '-'.
- Username can't contain space () between any letters, numbers, '_' or '-'.

Email addresses:

- Remove the Connected Account before deleting primary email address.
- Primary address can't be removed.
- Any other added email must have valid email id.
- Added other email can be verified by inserting verification code sent on that email.
- Added other email can be set as primary email address after verifying it.

Phone numbers:

- We can add new phone number but it must be valid and not same as primary phone number or used by other users.
- Phone number must contain 10 digits.
- Added Phone number can be verified by inserting verification code sent on that phone number.
- Added Phone number can be set as primary phone number after verifying it.

Equivalence Class:

Equivalence class	Image(Size)	Username	Email addresses	Phone number	Result
E1	valid	valid	valid	valid	success
E2	invalid	valid	valid	invalid	error
E3	valid	invalid	valid	valid	error
E4	valid	valid	invalid	invalid	error
E5	valid	invalid	invalid	valid	error
E6	invalid	valid	invalid	invalid	error
E7	invalid	invalid	valid	valid	error
E8	invalid	invalid	invalid	invalid	error

Boundary value analysis:

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
0	student	Valid primary email (Ex. student@daiict.ac.in)	9876543210	Success	Success	Lower boundary for image size; valid inputs for username, email, and phone number.
10	student	Valid secondary email, verified	9876543210	Success	Success	Upper boundary for image size. Inputs meet all other constraints.
10.1	student	Valid secondary email, not verified	9876543210	Failure (Image too large)	Error: "Image can't be updated"	Image size exceeds the upper limit.
5	abc	Valid primary email, unverified secondary email	9876543210	Failure (Username too short)	Error: (Username must be between 4 and 64 characters long.)	Username violates the minimum length constraint.
5	thisusernameis64charslongexactly_____1234567890_9876543210	Valid primary email	9876543210	Success	Success	Upper boundary for username length.

5	thisusernameis65charslongexactly_____1234567890_98765432101	Valid primary email	9876543210	Failure (Username too long)	Error: "Username must be between 4 and 64 characters long".	Username exceeds the maximum length constraint.
5	1234	Valid primary email, unverified secondary email	1234567890	Failure (Username lacks non-numeric char)	Error: "Username must contain one non-number character".	Username violates the non-numeric character constraint.
5	abc def	Valid primary email	1234567890	Failure (Space in username)	Error: "Username can only contain letters, numbers and '_' or '-' or '.'".	Username contains invalid spaces.
5	student	Invalid secondary email	1234567890	Failure (Invalid email address)	Error: "Please match the requested format"	Email does not meet validity checks.
5	student	Valid primary email, secondary unverified	1234567890	Failure (Unverified secondary email)	Error: "It shows email is unverified."	Secondary email must be verified before being used.
5	student	Valid primary email	9106050800	Failure (Phone number already primary)	Error: "This phone number is taken. Please try another."	Secondary phone number cannot match the primary phone number.
5	student	Valid primary email	9426023787	Failure (Phone number used by another user)	Error: "This phone number is taken. Please try another."	Phone number violates the uniqueness constraint.
5	student	Valid primary email	123456789	Failure (Phone number too short)	Error: "Phone number must be a valid phone number."	Phone number violates the minimum length constraint.
5	student	Valid primary email, unverified secondary email	12345678901	Failure (Phone number too long)	Error: "Phone number must be a valid phone number."	Phone number violates the maximum length constraint.

5	student	Valid primary and secondary email	9876543210	Success	Success	All inputs meet constraints.
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Acceptance Testing

1)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	abc	Valid primary email, unverified secondary email	9876543210	Failure (Username too short)	Error: (Username must be between 4 and 64 characters long.)	Username violates the minimum length constraint.

Account

Manage your account info.


- Profile
- Security

Secured by clerk

Development mode

Profile details

Profile



student daiict


Update profile

Username

Update username

Username

abc

 Username must be between 4 and 64 characters long.

Cancel

Save

Email addresses

aadpatel1@gmail.com Primary

202201452@daiict.ac.in Unverified

+ Add email address

Phone numbers

+91 91060-50800 Primary

+ Add phone number

Connected accounts

Google • aadpatel1@gmail.com

+ Connect account

2)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	thisusernameis64charslongexactly____1234567890_9876543210	Valid primary address	9876543210	Success	Success	Upper boundary for username length.

Account


Manage your account info.

Profile

Security

Profile details

Profile



student daiict

Update profile

Username

thisusernameis64charslongexactly____...

Update username

Email addresses

aadpatel1@gmail.com

Primary

...

+ Add email address

Phone numbers


+91 91060-50800

Primary

...


+ Add phone number

Connected accounts

 Google • aadpatel1@gmail.com

...

+ Connect account

Secured by  clerk

Development mode

3)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	thisusernameis65charslongexactly____1234567890_98765432101	Valid primary email	9876543210	Failure (Username too long)	Error: "Username must be between 4 and 64 characters long".	Username exceeds the maximum length constraint.

Account


Manage your account info.

Profile

Security

Profile details

Profile



student daiict

Update profile

Username

Update username

Username

thisusernameis65charslongexactly____1234567890123

! Username must be between 4 and 64 characters long.

Cancel

Save

Email addresses

aadpatel1@gmail.com Primary

+ Add email address

Phone numbers


+91 91060-50800 Primary

+ Add phone number

Connected accounts

Google • aadpatel1@gmail.com

+ Connect account

Secured by  clerk


Development mode


4)


Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	1234	Valid primary email, unverified secondary email	1234567890	Failure (Username lacks non-numeric char)	Error: "Username must contain one non-number character".	Username violates the non-numeric character constraint.

Account

Manage your account info.

 Profile


 Security

Secured by  clerk

Development mode

Profile details

Profile


 student daiict Update profile

Username

Update username

Username

1234

 Username must contain one non-number character.

Cancel Save

Email addresses

aadpatel1@gmail.com Primary ...

202201452@daiict.ac.in Unverified ...


+ Add email address

Phone numbers

+91 91060-50800 Primary ...

+ Add phone number

Connected accounts

 Google • aadpatel1@gmail.com ...

+ Connect account

5)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	abc def	Valid primary email	1234567890	Failure (Space in username)	Error: "Username can only contain letters, numbers and '_' or '-' '_'"	Username contains invalid spaces.

Account


Manage your account info.

Profile

Security

Profile details

Profile



student daiict

Update profile

Username

Update username

Username

abc def

⚠ Username can only contain letters, numbers and '_' or '-'.

Cancel

Save

Email addresses

aadpatel1@gmail.com Primary

+ Add email address

Phone numbers


+91 91060-50800 Primary

+ Add phone number

Connected accounts

Google • aadpatel1@gmail.com

+ Connect account

Secured by 

Development mode

6)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Invalid secondary email	1234567890	Failure (Invalid email address)	Error: "Please match the requested format"	Email does not meet validity checks.

Account


Manage your account info.

Profile

Security

Profile details

Profile

 student daiict [Update profile](#)

Username

student [Update username](#)

Email addresses

aadpatel1@gmail.com Primary ...

Add email address

An email containing a verification code will be sent to this email address.

Email address

studentdaiict

!

Please match the requested format.


Add

Phone numbers


+91 91060-50800 Primary ...

+ Add phone number

Connected accounts

 Google • aadpatel1@gmail.com ...

+ Connect account

Secured by  clerk

Development mode

7)


Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email, secondary email unverified	1234567890	Failure (Unverified secondary email)	Error: "It shows email is unverified."	Secondary email must be verified before being used.

Account

Manage your account info.

Profile


Security

Secured by  clerk

Development mode

Profile details

Profile

 student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com

Primary

 ...

202201452@daiict.ac.in

Unverified

 ...

Verify email address

Enter the verification code sent to 202201452@daiict.ac.in

|

Didn't receive a code? Resend (4)

Cancel

Verify

Phone numbers


+91 91060-50800

Primary

 ...

+ Add phone number

Connected accounts

 Google • aadpatel1@gmail.com ...

8)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	9106050800	Failure (Phone number already primary)	Error: "This phone number is taken. Please try another."	Secondary phone number cannot match the primary phone number.

Account


Manage your account info.

Profile

Security

Profile details

Profile

 student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com

Primary

...

+ Add email address

Phone numbers

+91 91060-50800

Primary

...

Add phone number

A text message containing a verification code will be sent to this phone number. Message and data rates may apply.

Phone number

IN

+

91 91060-50800

This phone number is taken. Please try another.

Cancel

Add

Connected accounts

Google

 • aadpatel1@gmail.com

...

+ Connect account

Secured by  clerk

Development mode

9)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	9426023787	Failure (Phone number used by another user)	Error: "This phone number is taken. Please try another."	Phone number violates the uniqueness constraint.

Account

Manage your account info.

Profile

Security

Profile

student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com Primary

...

+ Add email address

Phone numbers

+91 91060-50800 Primary

...

Add phone number

A text message containing a verification code will be sent to this phone number. Message and data rates may apply.

Phone number

IN +91 94260-23787

This phone number is taken. Please try another.

Cancel Add

Connected accounts

Google • aadpatel1@gmail.com

...

+ Connect account

Secured by clerk

Development mode

10)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	123456789	Failure (Phone number too short)	Error: "Phone number must be a valid phone number."	Phone number violates the minimum length constraint.

Account

Manage your account info.

Profile

Security

Profile

student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com

Primary

...

+ Add email address

Phone numbers

+91 91060-50800

Primary

...

Add phone number

A text message containing a verification code will be sent to this phone number. Message and data rates may apply.

Phone number

IN

+91 12345-6789

! 'phone_number' must be a 'phone_number'.

Cancel

Add

Connected accounts

Google

aadpatel1@gmail.com

...

+ Connect account

Secured by clerk

Development mode

11)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email, unverified secondary email	12345678901	Failure (Phone number too long)	Error: "Phone number must be a valid phone number."	Phone number violates the maximum length constraint.

Account

Manage your account info.


Profile

Security

Secured by clerk

Development mode

Profile

 student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com

Primary

202201452@daiict.ac.in

Unverified

+ Add email address

Phone numbers

+91 91060-50800

Primary

Add phone number

A text message containing a verification code will be sent to this phone number. Message and data rates may apply.

Phone number

IN

+91 12345-678901

phone_number must be a phone_number.

Cancel

Add

Connected accounts

Google • aadpatel1@gmail.com


+ Connect account


12)

Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary and secondary email	9876543210	Success	Success	All inputs meet constraints.

Account


Manage your account info.

 Profile

 Security

Profile details

Profile

 student daiict

Update profile

Username

student

Update username

Email addresses

aadpatel1@gmail.com

Primary

 ...

202201452@daiict.ac.in ...

+ Add email address

Phone numbers


+91 91060-50800

Primary


 ...

+ Add phone number

Connected accounts

 Google • aadpatel1@gmail.com ...

+ Connect account

Secured by  clerk

Development mode

ii)Security

BLACKBOX TESTING

Set password:

CONSTRAINTS

New Password:

- It must contain 8 or more characters.
- It must contain less than 72 characters.

Confirm Password:

- It must match the new password to set and confirm it.

Equivalence Class:

Equivalence class	New Password	Confirm Password	Result
E1	valid	Mathes	success
E2	invalid	-	error
E3	valid	Don't matched	error

Boundary value analysis:

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
studentofdaiict	studentofdaiict	Password set successfully	Password match	Minimum valid length (8 characters) matches.
	-	Password not set (too short)	Error	Less than the minimum 8 characters.
abcdefghijklmno	abcdefghijklmno	Password set successfully	Password match	Maximum valid length (72 characters) matches.
abcdefghijklmno	-	Password not set (too long)	Error	Exceeds maximum 72 characters.
studentofdaiict	studentof	Password not set (mismatch)	Error	Confirm password does not match the new password exactly.
Spaces only (, 8 spaces)	Spaces only (, 8 spaces)	Password set successfully	Password match	Minimum length met even with spaces.

Acceptance Testing

1)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
studentofdaiict	studentofdaiict	Password set successfully	Password match	Minimum valid length (8 characters) matches.

Set password

New password

studentofdaiict

✔

Your password meets all the necessary requirements.

Confirm password

studentofdaiict

✔

Passwords match.

✔

Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save

2)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
	-	Password not set (too short)	Error	Less than the minimum 8 characters.

Set password

New password

! Your password must contain 8 or more characters.

Confirm password

Please fill out this field.

☒ Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save

3)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
abcdefghijklm...	abcdefghijklm...	Password set successfully	Password match	Maximum valid length (72 characters) matches.

New password

✓ Your password meets all the necessary requirements.

Confirm password

✓ Passwords match.

✓ Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save

4)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
abcdefghijklmno	-	Password not set (too long)	Error	Exceeds maximum 72 characters.

Set password

New password

 Your password must contain less than 72 characters.

Confirm password

☒ Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save

5)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
studentofdaiict	studentof	Password not set (mismatch)	Error	Confirm password does not match the new password exactly.

Set password

New password



✔ Your password meets all the necessary requirements.

Confirm password



❗ Passwords don't match.

✔ Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save

6)

New Password	Confirm Password	Expected Outcome	Actual Outcome	Reason for Outcome
Spaces only (, 8 spaces)	Spaces only (, 8 spaces)	Password set successfully	Password match	Minimum length met even with spaces.

New password

✓ Your password meets all the necessary requirements.

Confirm password

✓ Passwords match.

☒ Sign out of all other devices

It is recommended to sign out of all other devices which may have used your old password.

Cancel

Save