PROJECT: EXPENSIFY

IT314 – SOFTWARE ENGINEERING GROUP 26

TASK: SYSTEM TESTING (PROFILE UPDATE & PASSWORD SET)



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GROUP MEMBERS:

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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	thisusernameis6 4charslongexactl y1234567 890_987654321 0	Valid primary email	9876543210	Success	Success	Upper boundary for username length.

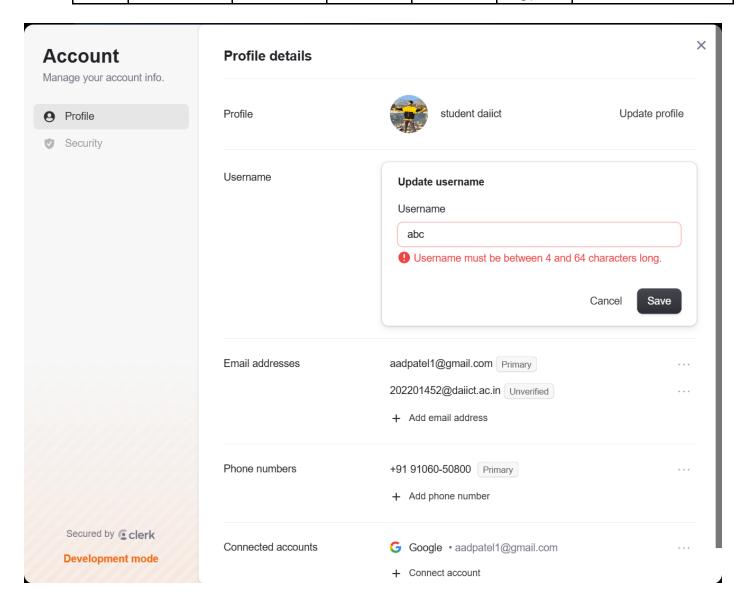
5	thisusernameis6 5charslongexactl y1234567 890_987654321 01	Valid primary email	9876543210	Failure (Username too long)	Error: "Username must be between 4 and 64 characters long".	Username exceeds the maximum length constraint.
5	1234	Valid primary email, unverified secondary email	1234567890	Failure (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 '- '."	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.

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

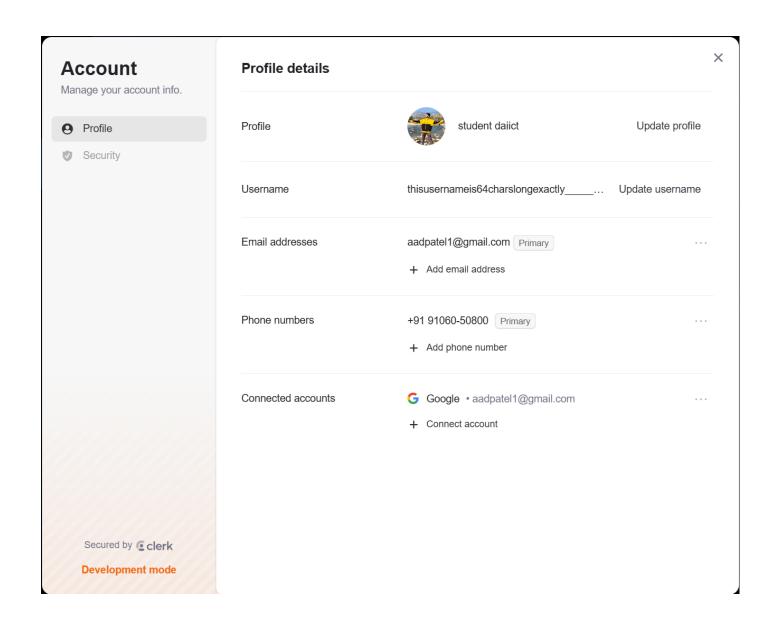
Acceptance Testing

1)

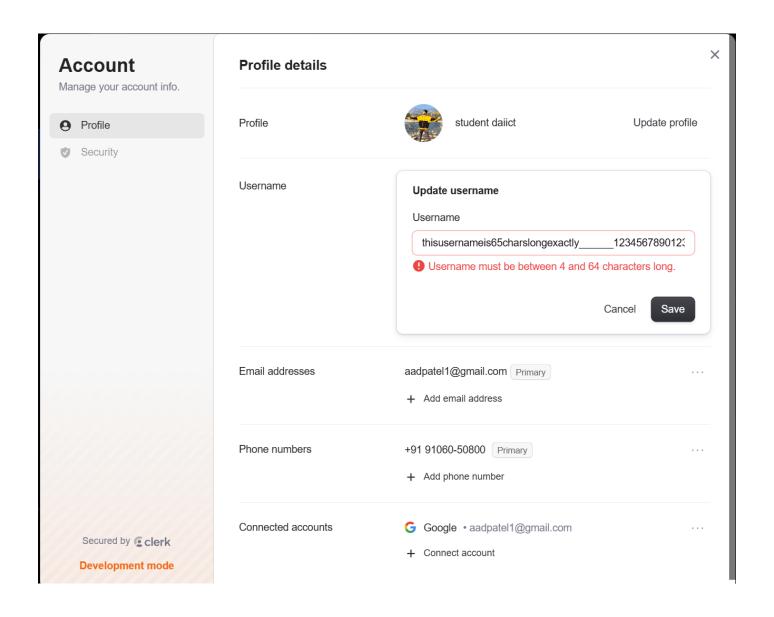
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	abc	Valid primary email, unverified secondary email	9876543210	Failure (Username too short)	Error: (Username must be between 4 and 64 characters long.)	Username violates the minimum length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



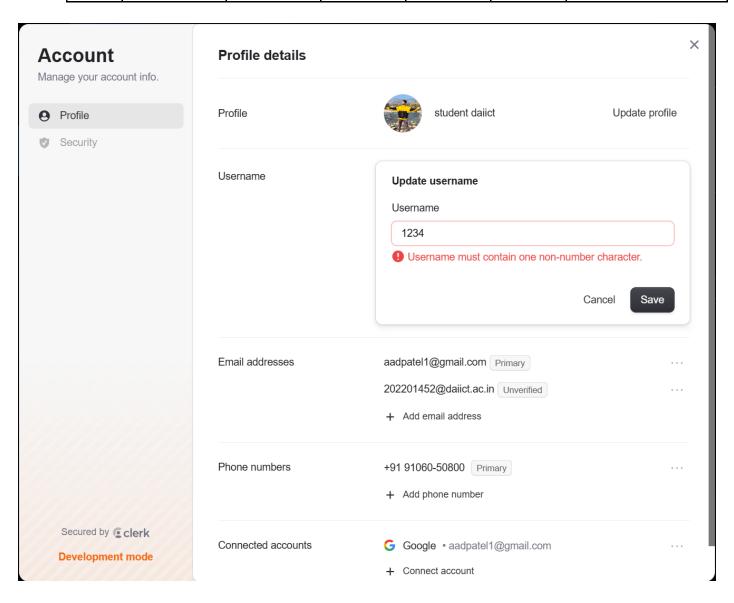
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	thisusernameis6 4charslongexactl y1234567 890_987654321 0	Valid primary address	9876543210	Success	Success	Upper boundary for username length.



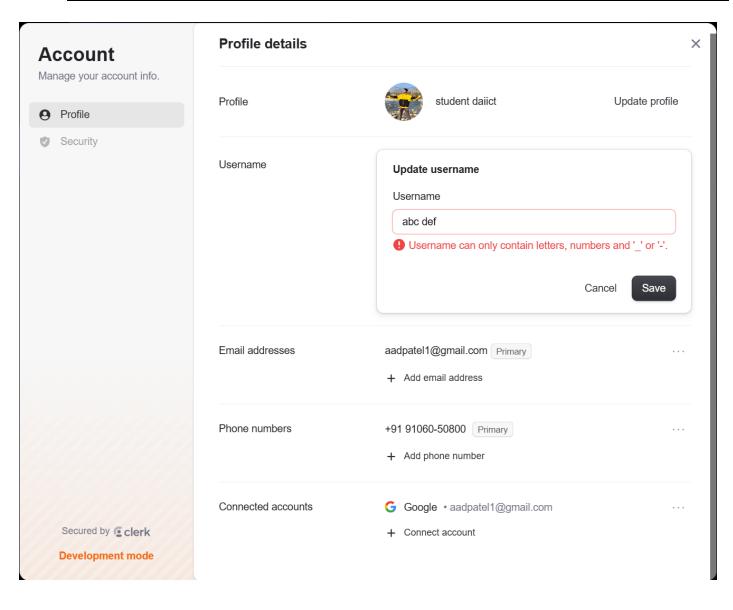
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	thisusernameis6 5charslongexactl y1234567 890_987654321 01	Valid primary email	9876543210	Failure (Username too long)	"Username must be between 4 and 64 characters long".	Username exceeds the maximum length constraint.



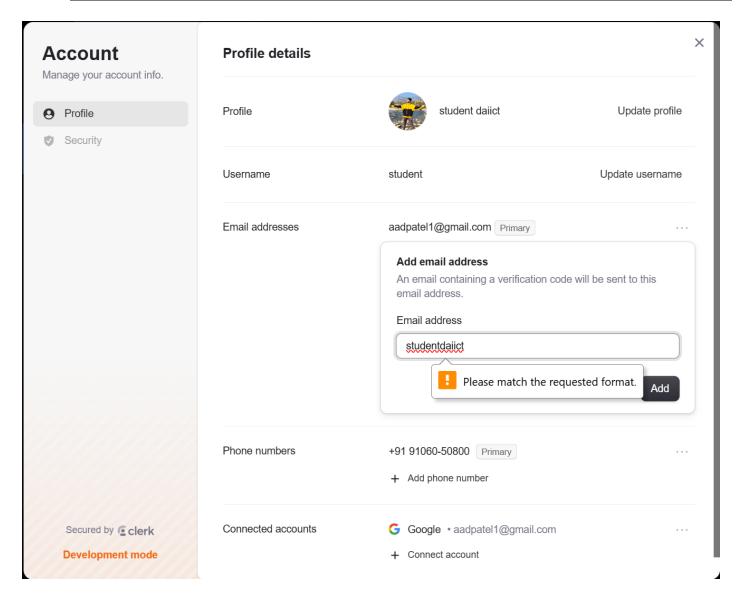
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	1234	Valid primary email, unverified secondary email	1234567890	Failure (Username lacks non- numeric char)	"Username must contain one non-number character".	Username violates the non- numeric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



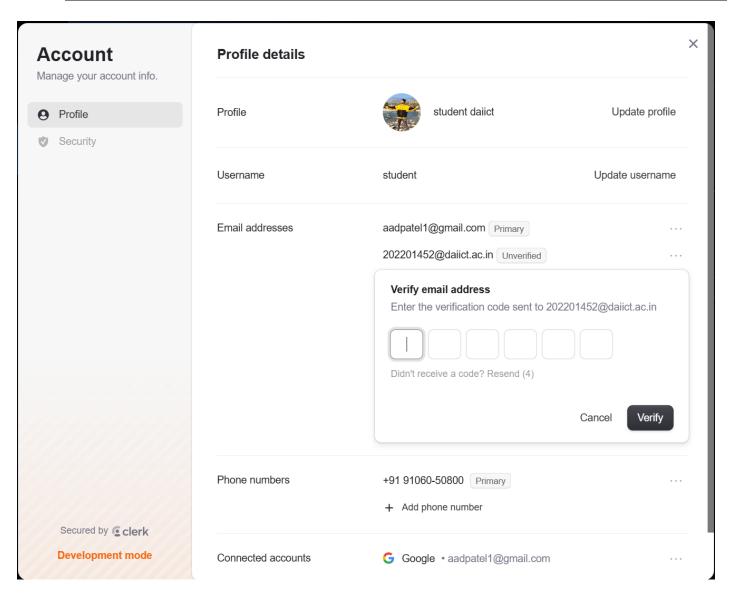
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	abc def	Valid primary email	1234567890	Failure (Space in username)	"Username can only contain letters, numbers and '_' or '- '."	Username contains invalid spaces.



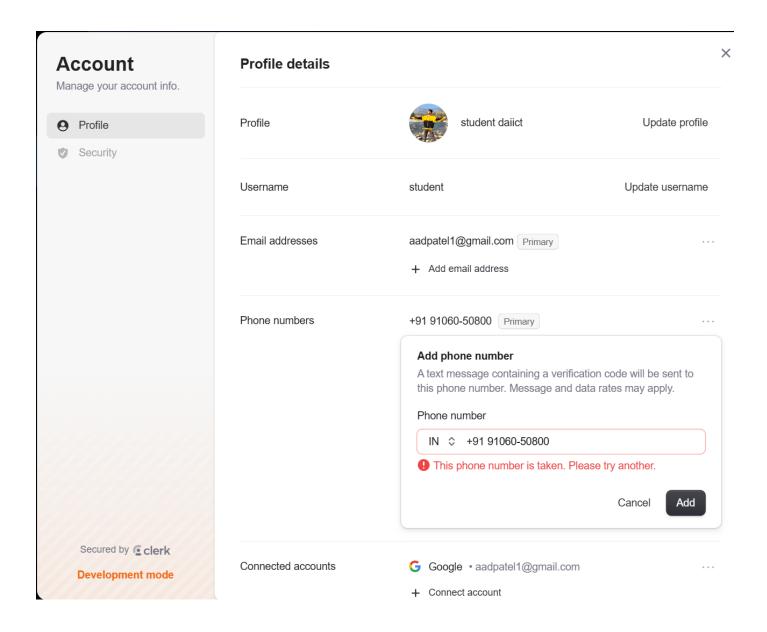
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Invalid secondary email	1234567890	Failure (Invalid email address)	Error: "Please match the requested format"	Email does not meet validity checks.



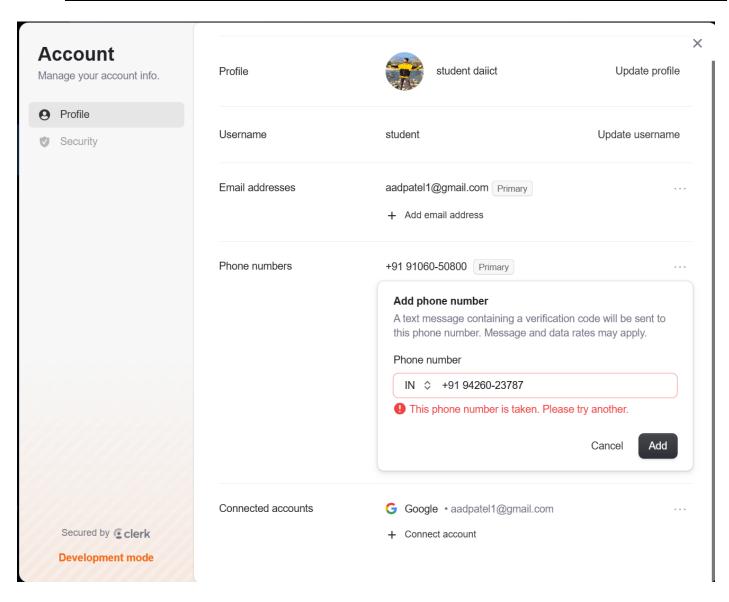
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email, secondary email unverified	1234567890	Failure (Unverified secondary email)	Error: "It shows email is unverified."	Secondary email must be verified before being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



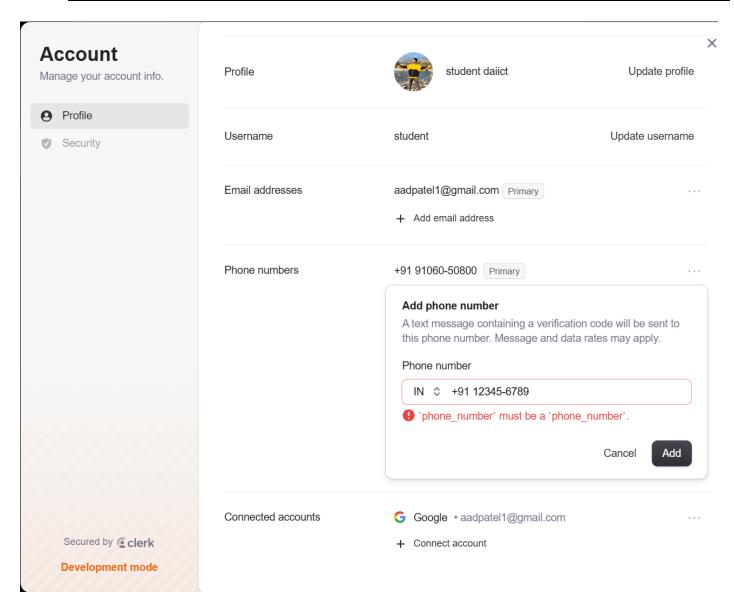
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	9106050800	Failure (Phone number already primary)	Error: "This phone number is taken. Please try another."	Secondary phone number cannot match the primary phone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



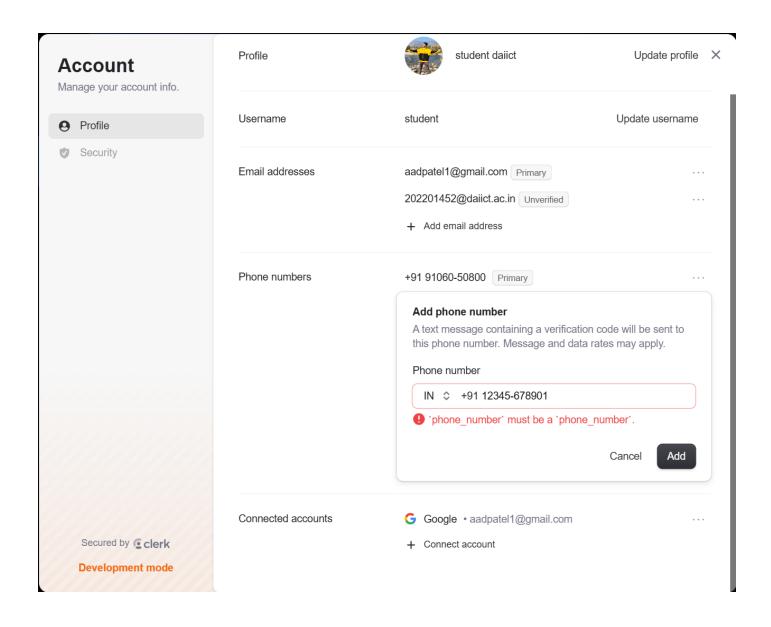
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	9426023787	Failure (Phone number used by another user)	Error: "This phone number is taken. Please try another."	Phone number violates the uniqueness constraint.



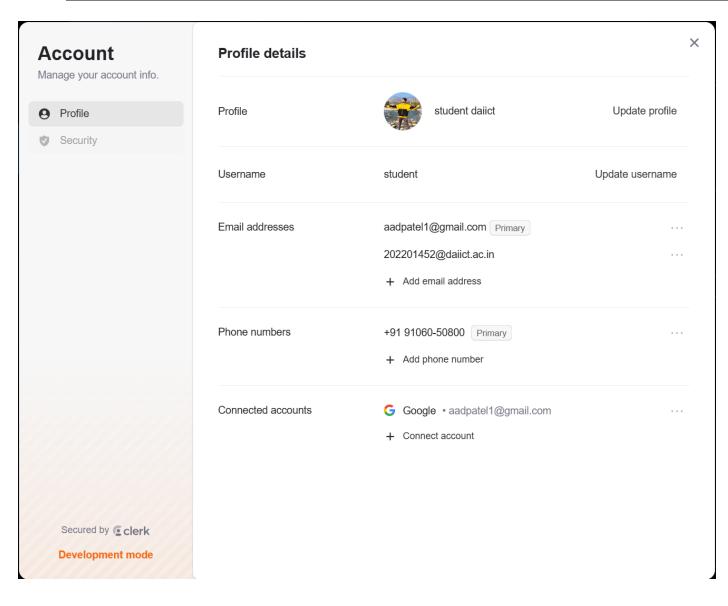
Upload Image Size(in MB)	Username	email addresses	phone number	Expected Output	Actual Output	Reason for Outcome
5	student	Valid primary email	123456789	Failure (Phone number too short)	Error: "Phone number must be a valid phone number."	Phone number violates the minimum length constraint.



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)	"Phone number must be a valid phone number."	Phone number violates the maximum length constraint.



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.



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

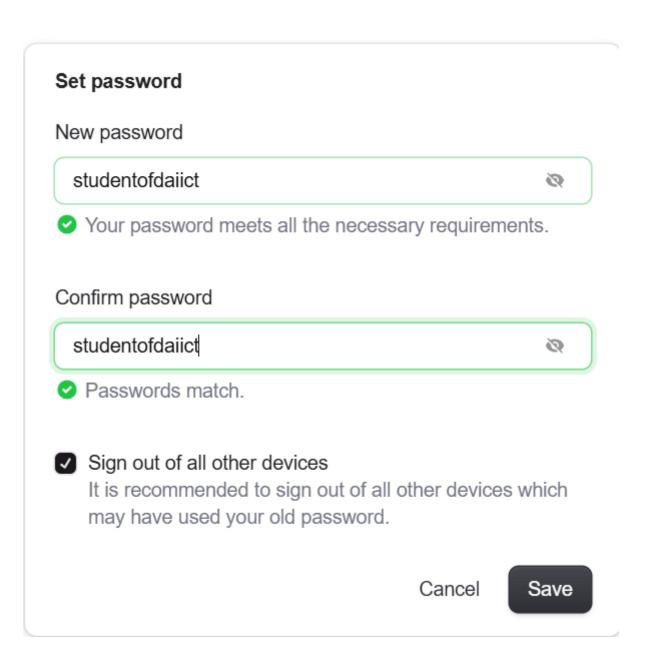
Boundary value analysis:

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.
abcdefghijkklmn	abcdefghijkklmn	Password set successfully	Password match	Maximum valid length (72 characters) matches.
abcdefghijkklmno	-	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.

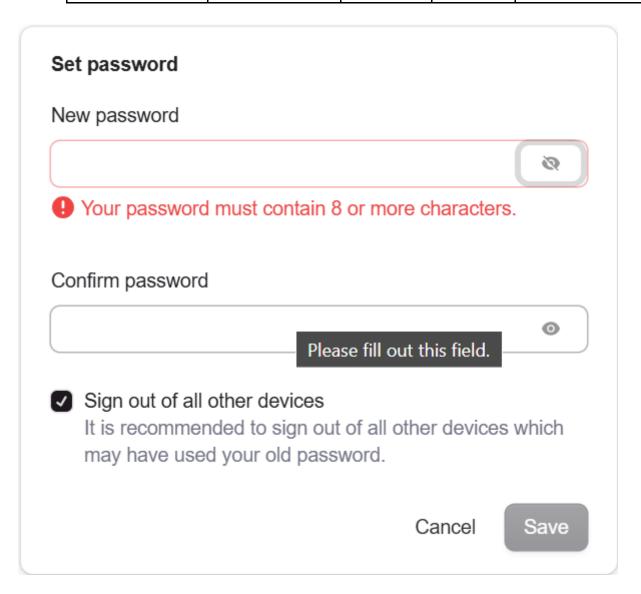
Acceptance Testing

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.



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



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

New password



Confirm password

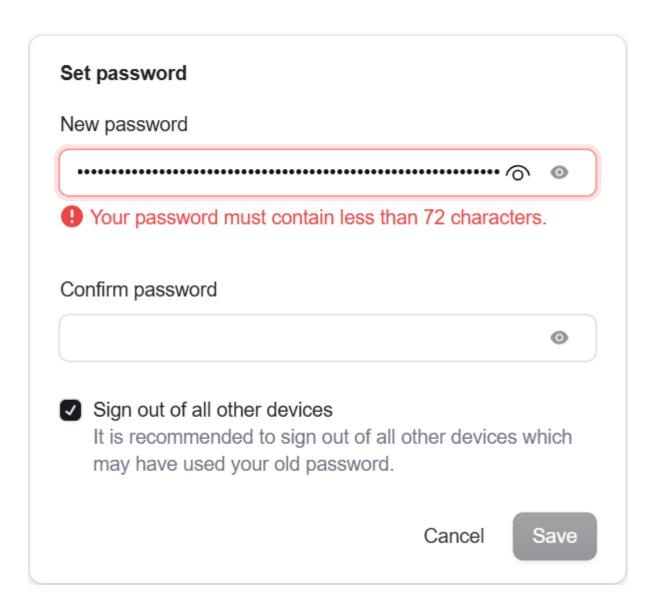


Sign out of all other devices

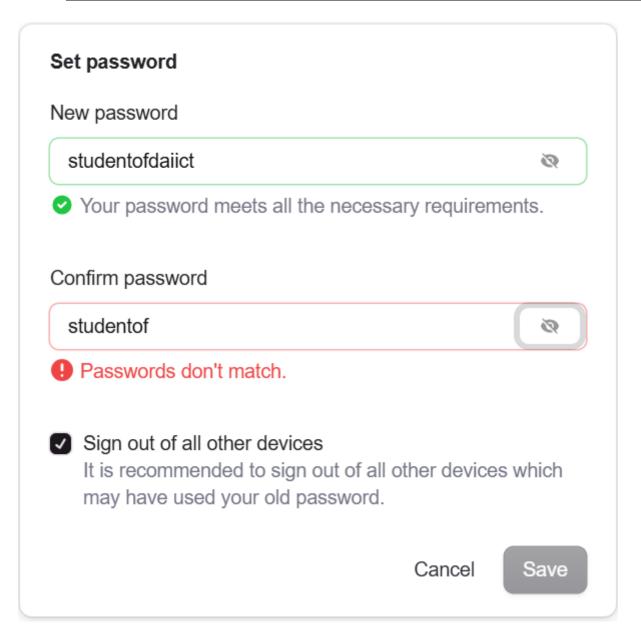
It is recommended to sign out of all other devices which may have used your old password.

Cancel Save

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



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



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



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