Black Box Testing

'Xpense Tracker'

Group-26

Registration

The validity checks for the registration form:

[Validity check Number: Description]

VC1: All details can not be blank.

VC2: First name & last name must be at least 4 characters.

VC3: First name & last name must be at least 24 characters.

VC4: First name & last name must start with a letter and contain only letters, numbers, underscores, and hyphens

VC5: Email should be in valid format.

VC6: Contact no must be of 10 digits.

VC7: Contact no should be in numeric format

VC8: Password must be at least 8 characters.

VC9: Password must not exceed 24 characters.

VC10: Password must include uppercase and lowercase letters, a number, and a special character.

VC11: Confirm password must match password.

Test Case ID	Validity Check No	First Name	Last Name	Email Address	Birth Date	Contact No	Password	Confirm Password	Expected Output	Remarks
TC1	VC1								Error	All details are blanked
TC2	VC2	Jo	Smi	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Error	First name & last name < 4
тсз	VC3	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Error	First name & last name > 24
TC4	VC4	1John -	Sm1th-	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Error	First name & last name format

TC5	VC5	John	Smith	Abcd.g mail.co m	1990-0 1-15	1234567 890	Password @1	Password@ 1	Error	Invalid email format
TC6	VC6	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 8	Password @1	Password@ 1	Error	Contact no < 10 digits
TC7	VC7	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234abc d	Password @1	Password@ 1	Error	Contact no not numeric
TC8	VC8	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Pass1	Pass1	Error	Password < 8 characters
TC9	VC9	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	VeryLongP assword@ 123456789 0	VeryLongPa ssword@12 34567890	Error	Password > 24 characters

TC10	VC10	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Passw0rd	Passw0rd	Error	Password missing criteria
TC11	VC11	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 2	Error	Confirm password mismatch
TC12	VC1	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Success	All details valid
TC13	VC1	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Success	All details valid
TC14	VC2	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Success	First name & last name >= 4

TC15	VC5	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Success	Valid email format
TC16	VC6	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password @1	Password@ 1	Success	Contact no 10 digits
TC17	VC10	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Passw0rd# 1	Passw0rd#1	Success	Password criteria met
TC18	VC11	John	Smith	Abcd12 34@gm ail.com	1990-0 1-15	1234567 890	Password#	Password#1	Success	Confirm password match

Login

The validity checks for Login .

Validity check Number: Description

VC1: All details are can not be blanked VC2: Email should be in valid format. VC3: Email should be registered. VC4: Password should be valid.

VC5: Selected role must match registered role.

Test Case ID	Validity Check No	Email Address	Password	Role	Expected Output	Remarks
TC1	VC1				Error	All details are blanked
TC2	VC2	Abcd1234@gmail.co m	Password@ 1	Employee	Success	Valid email and password
TC3	VC2	Abcd.gmail.com	Password@ 1	Employee	Error	Invalid email format
TC4	VC3	cd1234@gmail.com	Password@ 5	Employee	Error	Email not registered

TC5	VC4	Abcd1234@gmail.co m	Password@ 5	Employee	Error	Invalid password
TC6	VC2	Abcd1234@gmail.co m		Employee	Error	Blank password
TC7	VC2		Password@ 1	Employee	Error	Blank email
TC8	VC5	Abcd1234@gmail.co m	Password@ 1	Manager	Error	Role mismatch
TC9	VC2	Xyz123@gmail.com	Password#1 23	Manager	Success	Valid email, password, and role
TC10	VC5	Abcd1234@gmail.co m	Password@ 1	Employee	Success	Valid email, password, and role

Add expense form

The validity checks for Add expense form.

Validity check Number: Description

VC1: All details can not be blanked except description. VC2: Expense name must not exceed 30 characters.

VC3: Expense description must not exceed 400 characters.

Test Case ID	Validity Check No	Expense Name	Date	Category	Amount	Link of Uploaded Bill	Description	Expected Output	Remarks
TC1	VC1		2023- 01-15	Food	25.00	https://driv e.google.c om/drive/ my-drive	This is a test expense	Error	Blank expense name
TC2	VC1	Dinner		Food	25.00	https:/driv e.google.c om/drive/ my-drive	This is a test expense	Error	Blank date
тсз	VC1	Dinner	2023- 01-15		25.00	https:/ driv e.google.c om/drive/ my-drive	This is a test expense	Error	Blank category

TC4	VC1	Dinner	2023- 01-15	Food		https:/ driv e.google.c om/drive/ my-drive	This is a test expense	Error	Blank amount
TC5	VC1	Dinner	2023- 01-15	Food	25.00		This is a test expense	Error	Blank bill link
TC6	VC2	Dinner with a very long name	2023- 01-15	Food	25.00	https:/ driv e.google.c om/drive/ my-drive	This is a test expense	Error	Expense name > 30 characters
TC7	VC3	Dinner	2023- 01-15	Food	25.00	https:/ driv e.google.c om/drive/ my-drive	This is a test expense with a very long description	Error	Description > 400 characters

TC8	VC1	Dinner	2023- 01-15	Food	25.00	https:/ driv e.google.c om/drive/ my-drive		Success	All details valid
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- If status is Pending then employees can edit expenses or delete expenses.
 - For editing the expense, the employee can just press the Edit icon which is shown in the 'Project Expense' section and then the employee will be redirected to a page which has a form exactly like 'Add Expense' form.
 - For deleting the expense, the employee can just press the Delete icon which is shown in the 'Project Expense' section and then that expense will be deleted.
- If expense status is approved then employees can not edit or delete that expense.

Create Project form

The validity checks for Create Project form.

Validity check Number: Description

VC1: All details can not be blanked except description. VC2: Project name must not exceed 30 characters.

VC3: Project description must not exceed 400 characters.

VC4: Alert limit must be between 0 and 100.

Test Case ID	Validity Check No	Project Name	Budget Amount	Alert Limit (%)	Project Description (optional)	Expected Output	Remarks
TC1	VC1		10000.00	20	This is a test project	Error	Blank project name
TC2	VC1	Project X		20	This is a test project	Error	Blank budget amount
TC3	VC1	Project X	10000.00		This is a test project	Error	Blank alert limit
TC4	VC1	Project X	10000.00	200	This is a test project	Error	Alert limit exceeds 100

TC5	VC2	A Very Long Project Name That Exceeds 30 Characters	10000.00	20	This is a test project	Error	Project name > 30 characters
TC6	VC3	Project X	10000.00	20	This is a test project with a very long description	Error	Description > 400 characters
тс7	VC4	Project X	10000.00	-20	This is a test project	Error	Alert limit < 0
TC8	VC1	Project X	10000.00	20		Success	All details valid

Forgot Password

The validity checks for the Forgot Password :

[Validity check Number: Description]

VC1: User email must not be blanked and must be registered.

VC2: OTP must not be blanked and must be matched with the provided OTP sent on the email.

VC3: Password must be at least 8 characters.

VC4: Password must not exceed 24 characters.

VC5: Passwords must include uppercase and lowercase letters, a number, and a special

character.

VC6: Confirm password must match password.

Test Case ID	Validity Check No.	Email	ОТР	Password	Confirm Password	Expected Output	Remarks
TC_01	VC1	valid@example.com				Error: OTP field cannot be blank	Checking if system detects blank OTP field
TC_02	VC1					Error: Email field cannot be blank	Checking if system detects blank Email field
TC_03	VC1	invalidemail				Error: Invalid email format	Checking if system detects invalid email format

TC_04	VC1	unregistered@email. com				Error: Email not registered	Checking if system identifies unregistered email
TC_05	VC2	valid@example.com	1234567 8			Error: Invalid OTP	Checking if system detects incorrect OTP
TC_06	VC2	valid@example.com		password123	password123	Error: OTP field cannot be blank	Checking if system detects blank OTP field
TC_07	VC3	valid@example.com	123chi45	pass	pass	Error: Password too short	Checking if system detects short passwords
TC_08	VC4	valid@example.com	12345uuj	thisIsAVeryLong Password12345	thisIsAVeryLongPas sword12345	Error: Password too long	Checking if system detects long passwords
TC_09	VC5	valid@example.com	45yui9o6	Password!1	Password!1	Success: Password updated	Checking if system accepts a valid password

TC_10	VC5	valid@example.com	1234567 8	password	password	Error: Password weak	Checking if system detects weak password
TC_11	VC6	valid@example.com	1234568 7	Password!1	DifferentPass!1	Error: Password s do not match	Checking if system detects mismatched passwords

Edit Profile

The validity checks for the Edit Profile:

[Validity check Number: Description]

VC1: All details can not be blank.

VC2: First name & last name must be at least 4 characters.

VC3: First name & last name must be at least 24 characters.

VC4: First name & last name must start with a letter and contain only letters, numbers,

underscores, and hyphens

VC5: Date of birth should be at-least 18 years before present date.

VC6: Contact no must be of 10 digits.

VC7: Contact no should be in numeric format

Test Case Id	Validity Check No.	First Name	Last Name	Date of Birth	Contact Number	Expected Output	Remarks
1	VC1			1990-05 -15	1234567890	Error: All details cannot be blank.	Testing blank fields.
2	VC2	Jo	Doe	1985-12 -30	1234567890	Error: First name & last name must be at least 4 characters.	Testing minimum character limit for names.
3	VC3	Jonathan	D	1999-08 -20	1234567890	Error: First name & last name must be at least 4 characters.	Testing maximum character limit for last name.

4	VC4	John\$	Doe&	1980-02 -10	1234567890	Error: First name & last name must start with a letter and contain only letters, numbers, underscores, and hyphens.	Testing invalid characters in names.
5	VC5	Jane	Doe	2023-01 -05	1234567890	Error: Date of birth should be at least 18 years before present date.	Testing underage users.
6	VC6	Alice	Smith	1988-09 -25	12345678	Error: Contact no must be of 10 digits.	Testing insufficient digits in contact number.
7	VC7	Bob	Johnson	1975-06 -12	abcdefghij	Error: Contact no should be in numeric format.	Testing non-numeric characters in contact number.
8	-	Emily	Parker	1987-04 -03	9876543210	Success: Profile updated successfully.	Testing valid data for all fields.

Edit Project

The validity checks for the Edit Project form.

Validity check Number: Description

VC1: All details can not be blanked except description. VC2: Project name must not exceed 30 characters.

VC3: Project description must not exceed 400 characters.

VC4: Alert limit must be between 0 and 100.

Test Cas e Id	Validit y Check No.	Project Name	Budge t	Alert Limi t	Descripti on	Expected Output	Remarks
1	VC1	•	5000. 00	50	This is a test project.	Error: All details cannot be blank except descriptio n.	Testing blank fields.
2	VC2	VeryLongProjectNameThatExceedsT heCharacterLimit	10000 .05	30	Testing project with a name exceedin g 30 character s.	Error: Project name must not exceed 30 character s.	Testing maximu m character limit for project name.

3	VC3	ProjectABC	7500. 50	80	Lorem ipsum dolor sit amet, consecte tur adipiscin g elit. Nulla vitae nibh risus.	Error: Project descriptio n must not exceed 400 character s.	Testing maximu m character limit for project descripti on.
4	VC4	ProjectXYZ	6000. 00	-10	Testing a negative alert limit.	Error: Alert limit must be between 0 and 100.	Testing invalid alert limit.
5	VC1	TestProject	8500. 00	150	Descripti on for the test project.	Error: Alert limit must be between 0 and 100.	Testing invalid alert limit.
6		NewProject	9000	50	Testing the new project creation with valid data.	Success: Project updated successf ully.	Testing valid data for all fields.

Invite Employees

• A manager can invite only registered employees with an email address.

Error Pages

- 401 :- Unauthorized :- When someone tries to access content accessible only to registered users without login credentials.
- 403 :- Forbidden :- When Employee tries to access pages that only the manager can access and vice-versa then this error will be displayed.
- 404 :- Not found :- When someone tries to access a page that does not exist.

Notifications

- Users can view their notifications by clicking on the bell icon shown in the navigation bar.
 - Employees receive notifications for Project Invites sent by their manager.
 - Managers receive notifications when an employee accepts an invitation.
 - Managers receive notifications when an invitation is sent successfully.
 - Managers receive notifications when an employee adds an expense.
 - Managers receive notifications when an employee updates an expense.
 - Employees receive notifications when the manager approves/rejects an expense.
 - Every notification has a 'Mark as read' button. Once the user clicks it, that notification will be discarded from notifications.
 - Notifications related to expenses contain a button with the expense name that redirects to the 'Expense Details' page.
 - Notifications related to Projects contain a button with the name 'View Project' that redirects to the 'Project Dashboard' page.
 - Notifications related to Project Invite for employees contain a button with the name 'View Invitation' that redirects to the 'Invites' page.

Approve/Reject Expense

- Managers can view submitted expenses by clicking on a particular expense from 'Project Expenses' or notifications. This will lead to a page with all the expense details.
- Manager can view the submitted bills by clicking on the 'View Bill' button. This will
 open the provided links to the bills in a new tab.
- Manager can then approve/reject the expense by clicking on the 'Approve' /
 'Reject' button.

Announcements

- Users can make and see announcements in the 'Stream' section of the 'Project Home'.
- To make an announcement users can type in the text area provided and then click the submit button.
- The announcement will appear in the 'Announcements' section below the text area with the user's name and the time of announcement.