

Software Requirements Specification

Author(s): Sanketh

Date: August 11, 2022

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Contents

1. Abstract	4
2. Modules	5
2.1 HomePage	5
2.2 LoginPage	
2.3 Apply	5
2.4 Status	5
3. Functional Requirements	6
3.1 Login	6
3.2 Add Form	6
3.3 Status	6
4. Non – Functional Requirements	7
5. High-Level Design	7
6. Low-Level Design	11
7. Use Case Diagram	12
8. Class Diagram	13
9. Sequence Diagram	14
10. Flow Chart	15
11. ER Diagram	16

Abstract

The standardization, transformation and upgrading of financial management plays an important supporting role in promoting the standardized management and healthy operation of corporate expense reimbursement behaviors. This project starts with travel expense reimbursement. Automating travel expense reimbursements eliminates labor-intensive and error-prone tasks such as receipt safe-keeping, data validation, and expense report processing. The web application gets the details from the employee, about their details and expenses during the business travel, in the form. When the employee submits the form, the report will be generated. The report status will be in pending status until getting approved. The employee can view the pending and approved status in the application. The report will be reviewed from the admin side and gets approved or rejected. For both approval and rejection of the report, the employee will get notified through the registered E-mail id. The details of the payment and status of the report will be mentioned in the e-mail. With this web application, Organizations can make efficient travel expense reimbursement system which enables easy expense reporting and quick expense reimbursements, earning greater employee loyalty and trust.

EXISTING SYSTEM

The existing system of Travel Reimbursement collects the details of expenses and update the status of the report in the web application. The report checking and updating can take two or three days.

PROPOSED SYSTEM

The proposed system will update the status of the report through mail as well as in the application. By this, the user does not want to open the application to view the status of the report.

2.MODULES

2.1 Homepage

The homepage consists of the navigation bar, where the user can select the option to move to that page. The navigation bar consists of apply, status, home and login buttons. If the user selects the apply button, it will redirect to the reimbursement form page. If user clicks home button it will show the list of reports that he had submitted. The user can click the login button on the top-right corner to enter into the website.

2.2 Login Page

In this page, the user can enter their id and password to login to their account. The employee id and password are authenticated, only the details match with the details in the database. If the credentials doesnot match it will pop-up the error message. The error message like, employeeid or password is invalid, user doesnot exist will be displayed. This page also contains forgot password buton. The user can click forgot password to change to new password. The forgot password will ask the employee-id and registered email address for verification.

2.3 Apply

This module is the main part of the application. In this, the employee has to enter their own details, travel details, expenses during travel, bills attachment to apply for the reimbursement. The details will be validated before submitting the form. Validation process will be done for employee id, name, bills attachment. For attachment of the bill, the bill should be in pdf format and should match within the size.

2.4 Status

This page will display the status of every report submitted by the employee. The reports will be categorized as pending and approved reports. There will be two buttons. One is pending reports and the other one is approved reports. The employee can click either button to view the reports, they have submitted.

3.Functional Requirements

3.1LOGIN

This section contains Employee-Id, password and forgot password. The user can login to the application with the proper credentials. In case, if he forget the password, he/she can give forgot password to generate a new password.

3.2HOME

This section contains has the route the all the modules. The user can navigate to fill the form, view the status of the report and also can view the accounts page.

3.3FORM

This is the section where user has to enter the details to apply reimbursement like travel start and end date, expense details during travel, and basic details of the user.

3.4STATUS

After the user submitted the reimbursement form, the form will be in the pending reports until it gets approved. After approval, the form will be moved to the approved reports . The user can view the status of the reports in this page.

3.5ACCOUNT

The profile of the employee will be displayed in this section. The user can edit their profile details here. The user can also give ratings for the app. The user can logout only from this session

4.Non – Functional Requirements

- * Performance
- * Accessibility
- * Maintainability
- * Reliability
- * Compatability
- * Availability

5.High-Level Design

- The Homepage will give the user a gist of what this online website is. It will contain small snippets of information about the website will be displayed.
- At the top of the Homepage, the navigation bar will contain the buttons to fill the form and view the report status.
- The login button will always be at the top-right corner in the navigation bar.

5.1 Homepage

[REIMBURSEMENT](#) [HOME](#) [PRIVACY](#) [APPLY](#) [Login](#)

TRAVEL REIMBURSEMENT

Australia travel
[open](#)

Domestic travel
[open](#)

Cochin travel
[open](#)

5.2 Login-in Page

The screenshot shows a web browser window with the title "Travel Reimbursement" and the URL "localhost:5006/Login/LoginPage". The page features a blue header with the "Reimbursement" logo and navigation links: "Home", "Privacy", "Apply", and a "Login" button. The main content area has a blue background with a white box containing the text "Sign into your account". To the left of the input fields is an illustration of two people, a car, and a plane, with the word "SERVICE" on a sign. The input fields are labeled "EmployeeID" and "Password". Below the "Password" field is a "Login" button and a link for "Forgot password?".

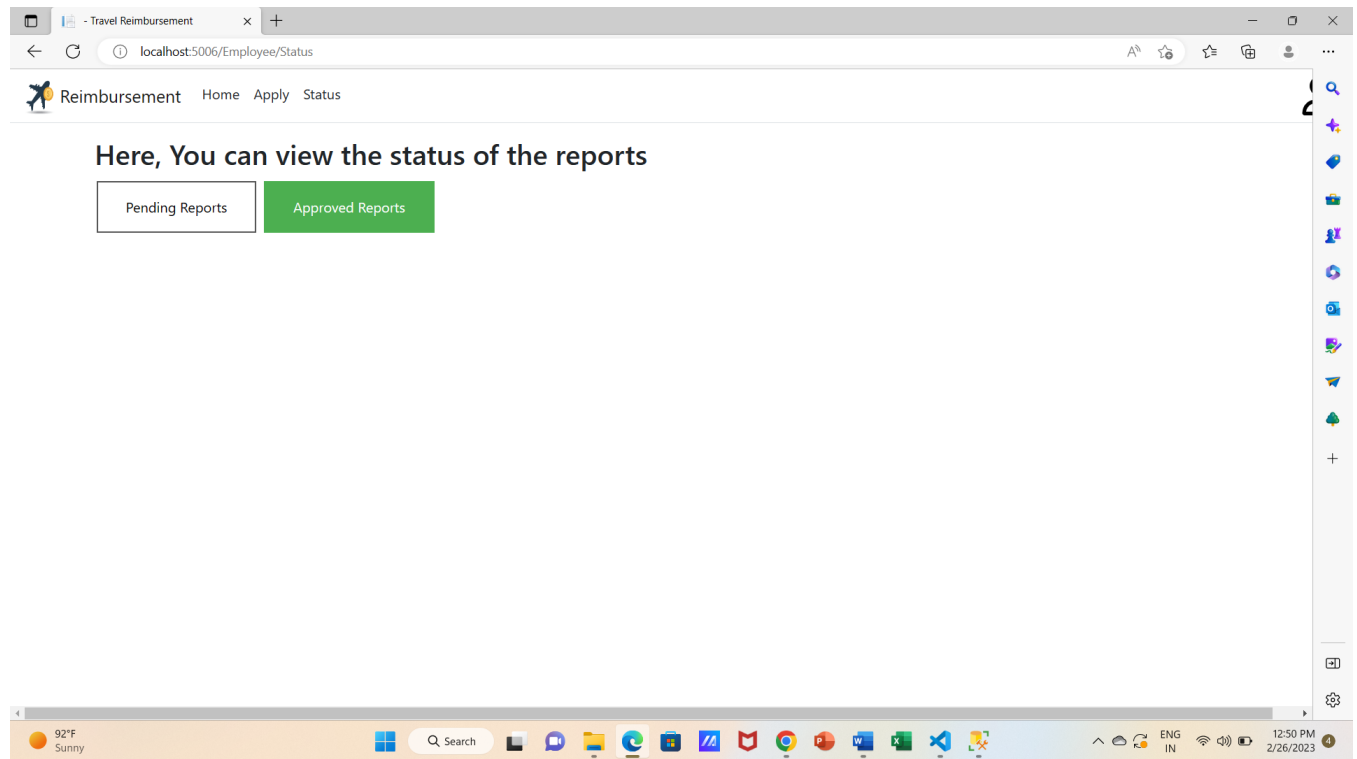
5.3 Reimbursement Form

The screenshot shows a web browser window with the title "Travel Reimbursement" and the URL "localhost:5006/Employee/Create". The page features a blue header with the "Reimbursement" logo and navigation links: "Home", "Apply", "Status", and a "Submit" button. The main content area has a blue background with a white box containing the text "Reimbursement Form". The form includes the following fields:

- Employee ID
- Employee Name
- Travel Start Date (mm/dd/yyyy)
- Travel End Date (mm/dd/yyyy)
- Description
- Cost

Below the form fields is an "Add" button. Underneath is a table with two columns: "Expense" and "Cost". Below the table is a "Total Cost" field. At the bottom, there is an "Attach files" section with a "Choose File" button and the text "No file chosen". Below that is an "Any other suggestions" field. At the very bottom is a "Submit" button.

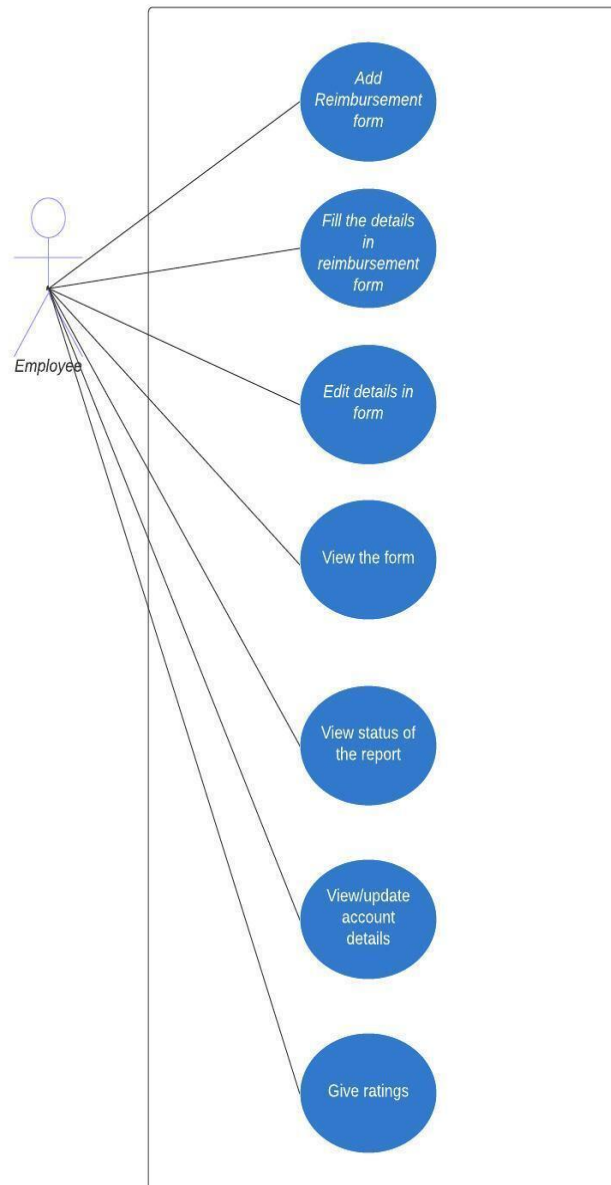
5.4 Status Report



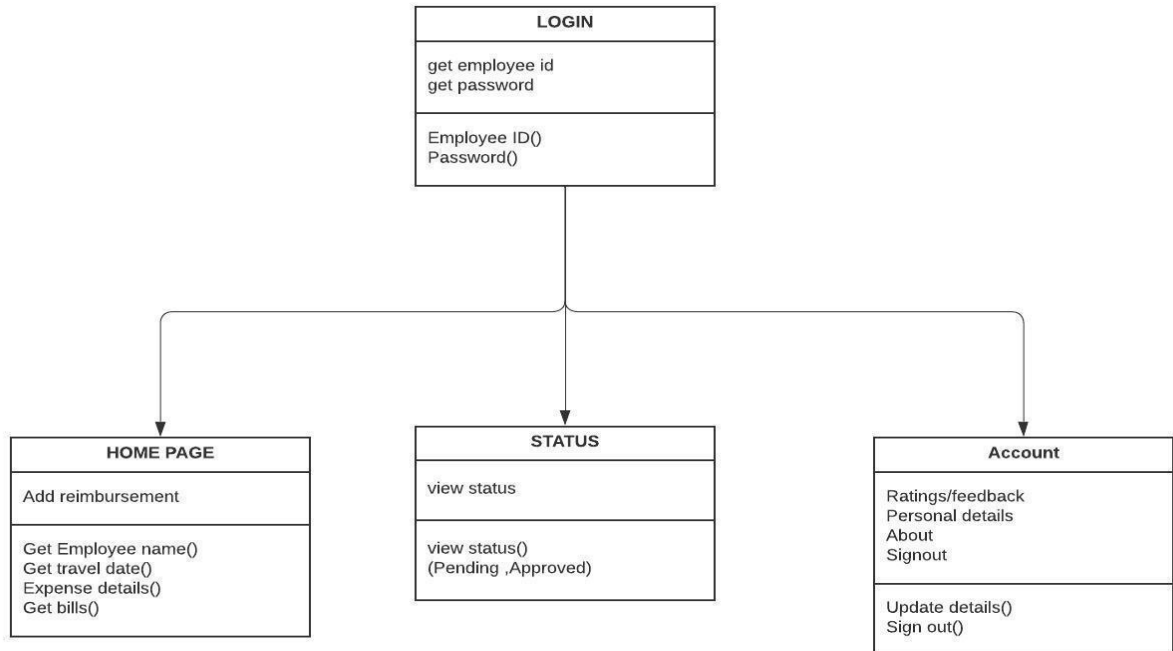
6.Low-Level Design

- The small snippets of information will be displayed on the homepage.
- The reports will be categorized under approval and pending according to their status.
- The form will be displayed with the credentials to be filled.
- The validations will be done for each text box input in the registration form.
- Filters like IActionFilter is used which performs the operation before and after an action method executes.

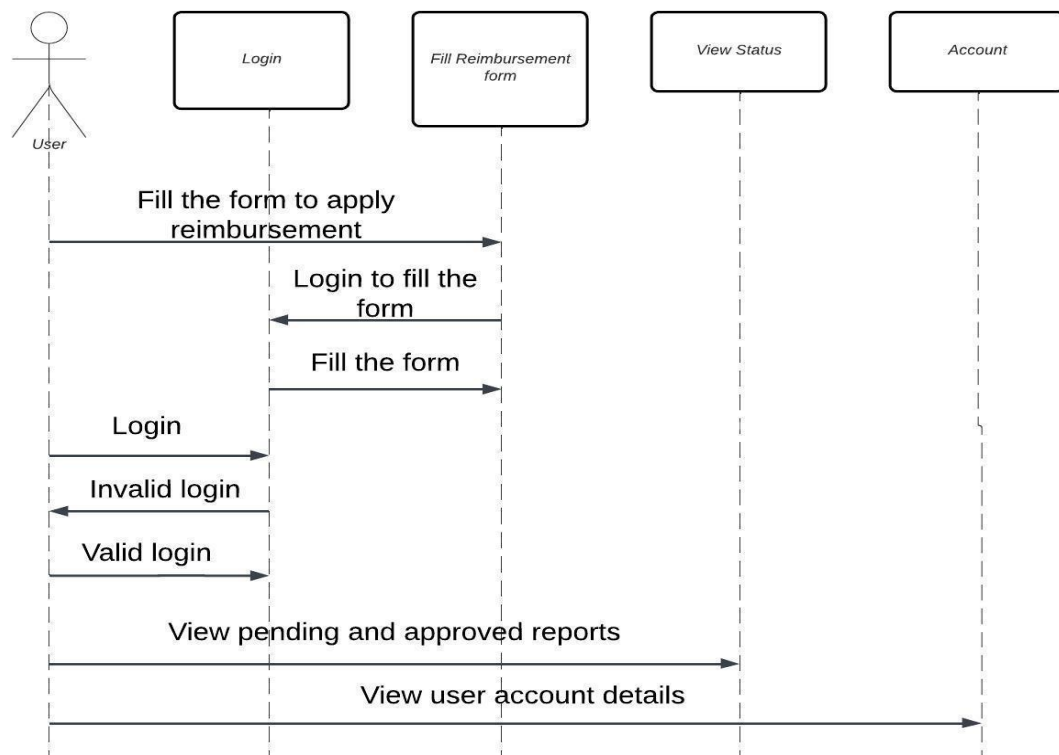
7. USE CASE DIAGRAM



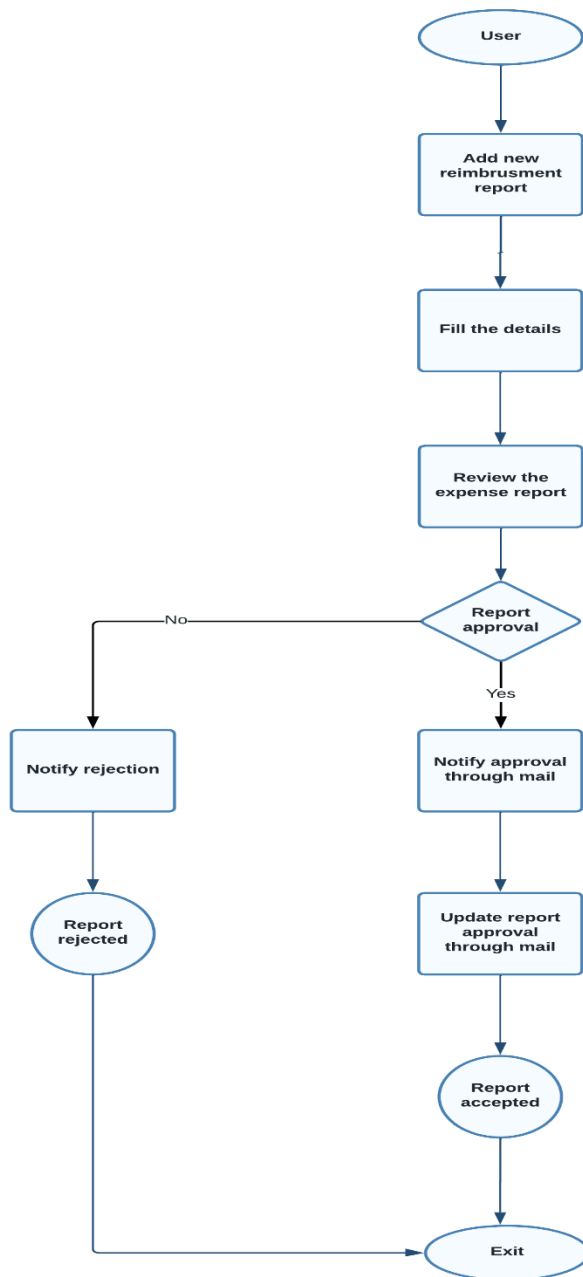
8. CLASS DIAGRAM



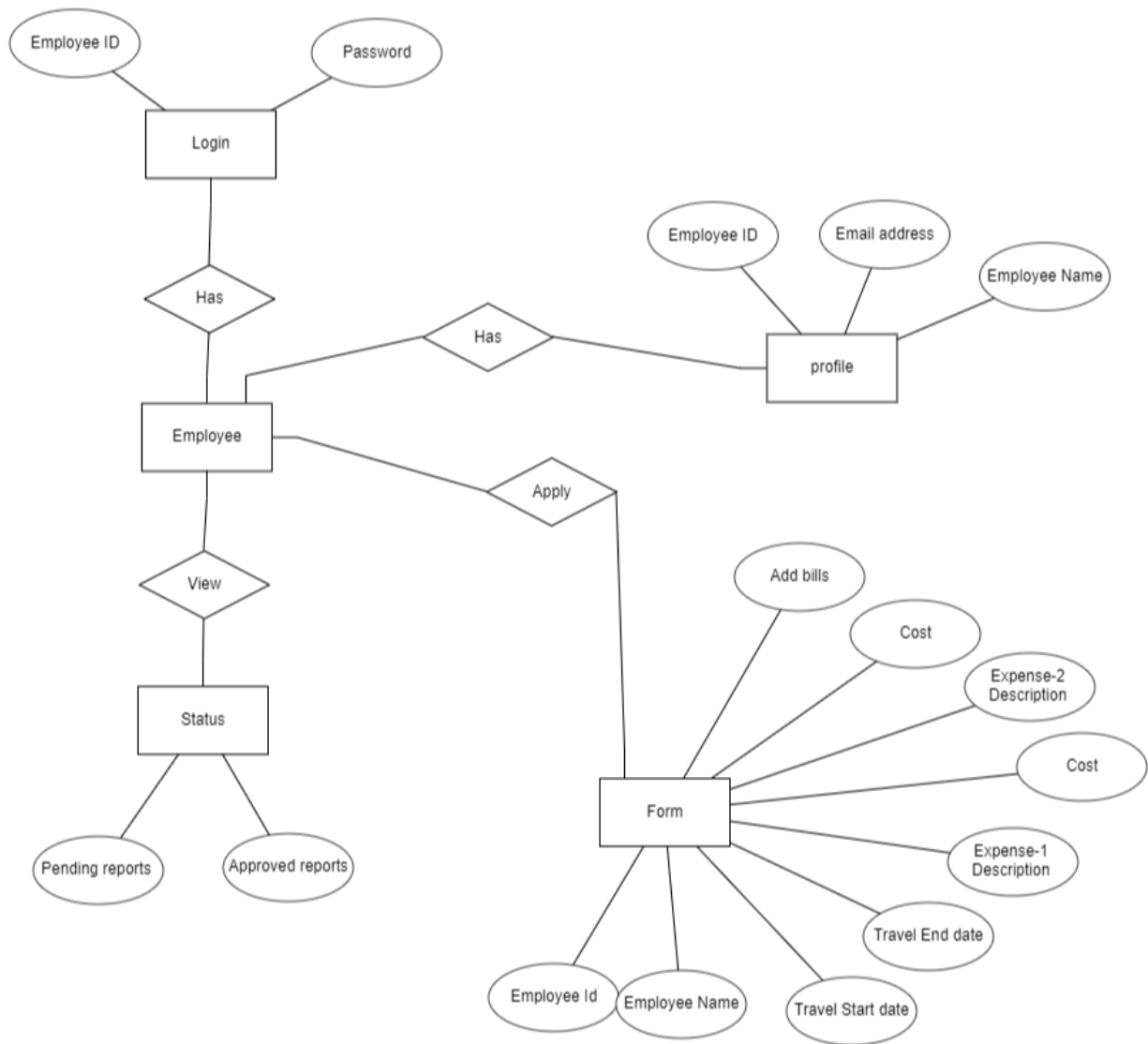
9. Sequence Diagram



10. Flow Chart



11. ER Diagram



TEST CASES

TEST CASE	DESCRIPTION	PRECONDITIONS	TEST CASE DESCRIPTION	TEST STEPS	TEST DATA	RESULT
TS-01	Travel Reimbursement	i) Establish the connection	Signup	-----	Signup is not required for this application	-----
TS-02 TC-201	Travel Reimbursement	i) Unlock your mobile/laptops ii) Connect to internet iii) Ensure that connection is established	Login	1) Enter employee id, password to login. 2) Employee id should contain 6 letters (first 2 characters and last 4 digits). 3) Password should be at least 8 characters, including special characters, alphabets, numbers.	Employee id=IN1001 Password=dbss@534y	Passed
TS-03 TC-301	Travel Reimbursement	i) Unlock your mobile/laptops. ii) Connect to internet iii) Ensure that connection is established.	Fill the form	1) Login to account 2) On the homepage, click add reimbursement and fill the details 3) Submit the form	Employee id=IN1001 Password=dbss@534y Files should be in pdf format, and size should be less than 100kb.	Passed

TS-04 TC-401	Travel Reimbursement	i)Unlock your mobile/laptops ii)Connect to internet iii)Ensure that connection is established.	View Status	1) Login to account 2) On the homepage, click status to view. 3) Reports will be categorized as pending and approved. 4) Click pending/approved reports to view.	Employee id=IN1001 Password=dbss@534y	Passed
TS-05 TC-501	Travel Reimbursement	i)Unlock your mobile/laptops ii)Connect to internet iii)Ensure that connection is established.	Ratings/feedback & Fill form	1) Open the app.	User did not login	Failed
TS-06 TC-601	Travel Reimbursement	i)Unlock your mobile/laptops ii)Connect to internet iii)Ensure that app is installed iv) Login	Give ratings	1) Login to account. 2) In the homepage, click account. 3) Click ratings and feedback 4) Give your ratings on the scale of 5.	Employee id=IN1001 Password=dbss@534y	Passed
TS-07 TC-70	Travel Reimbursement	i)Unlock your mobile/laptops ii)Connect to	Forgot Password	i)On the login page, click forgot password.	Email=abc@gmail.com Employee id=INT1991	Passed

1		internet iii)Ensure that app is installed		ii)Enter the mail-id registered while creating an account. iii)OTP will be received to mail-id iv)Enter the OTP to verfiy that it's you. v)Enter a new password . Vi)Click Submit. (Note: Otp should be only numbers. No special characters, alphabets are included).	New password=djanfo@987 Confirm password=djanfo@987	
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