Use Case Specification

DMT/RM01/TMP

|  |  |
| --- | --- |
| Project Code | PRJ\_ Loan Application Processing System\_001 |
| Project Name | Loan Application Processing System |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Group 3 | Trainee Test Engineers | 26th May, 2018 |
| Reviewed by | Role | Date of Review |
|  |  |  |
| Approved by | Role | Date of Approval |
|  |  |  |
| Circulation List |  | Version Number of the template:1.1 |
| Version Number | <version No > | 1.1 |

<<Customer>> REVIEW HISTORY

<<Customer comments on the Use case along with the signed off is tracked here>>

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Version | <<Version number>> |  |  |  |  |  |  |
| Date | <<Date of Review>> |  |  |  |  |  |  |
| Reviewed by | << Reviewer Name>> |  |  |  |  |  |  |
| Reviewed UI Specification doc | << Whether UI Specification doc is reviewed >> |  |  |  |  |  |  |
| All Open Queries/issues closed | << Whether all the open queries and issues resolved>> |  |  |  |  |  |  |
| Agreement on Assumptions | <<Whether all the assumptions have been agreed upon by the customer>> |  |  |  |  |  |  |
| Sign Off | <<Signature>> |  |  |  |  |  |  |

**Disclaimer**:The scope of the project ‘Loan Application Processing System’ is restricted to the contents of this signed off use case.

TABLE OF CONTENTS

[1. Use Case Name: Loan Approval Management ......................................................................5](#_Toc458607221)

[2. Actor(s): ................................................................................................................. 5](#_Toc458607222)

[3. Preconditions ............................................................................................................5](#_Toc458607223)

[4. Flow of Events ...........................................................................................................5](#_Toc458607224)

[4.1 Basic Flow ................................................................................................................5](#_Toc458607225)

[4.2 Alternative Flows........................................................................................................6](#_Toc458607226)

[4.2.1 Alternate Flow 1........................................................................................................ 6](#_Toc458607227)

[4.2.2 Alternate Flow 2........................................................................................................ 6](#_Toc458607228)

[4.2.3 Alternate Flow 3........................................................................................................ 7](#_Toc458607229)

[4.2.4 Alternate Flow 4........................................................................................................ 8](#_Toc458607229)

[Exception Flow 1: Exceeded Login Attempts .............................................................................8](#_Toc458607230)

[Exception Flow 2: Web Server Down.........................................................................................8](#_Toc458607231)

[Exception Flow 3: Database Connectivity Error............................................................................ 8](#_Toc458607232)

[Exception Flow 4: Network Connectivity Error.............................................................................8](#_Toc458607233)

[5. Post Conditions ..........................................................................................................9](#_Toc458607234)

[6. Special Requirements ................................................................................................10](#_Toc458607235)

[Performance ...................................................................................................................10](#_Toc458607236)

[Availability......................................................................................................................10](#_Toc458607237)

[User Interface..................................................................................................................10](#_Toc458607238)

[Security.........................................................................................................................10](#_Toc458607239)

[7. Extension Points........................................................................................................10](#_Toc458607240)

[Extension in Alternate Flow 1: .............................................................................................11](#_Toc458607241)

[Extension in Alternate Flow 2: .............................................................................................11](#_Toc458607242)

[8. Business Rules...........................................................................................................11](#_Toc458607243)

[9. Diagrams .................................................................................................................11](#_Toc458607244)

[Use Case Diagram for User....................................................................................................11](#_Toc458607245)

[10. Scenarios..................................................................................................................13](#_Toc458607247)

[Success Scenarios............................................................................................................... 13](#_Toc458607248)

[Failure Scenarios................................................................................................................13](#_Toc458607249)

[11. Issues......................................................................................................................13](#_Toc458607250)

[12. UI Specifications.........................................................................................................13](#_Toc458607251)

[13.InterSystem Dependencies...................................................................................................13](#_Toc458607252)

[14. Integration with an already existing System of the <<Customer>><<Not Applicable>>......................14](#_Toc458607253)

[15. Assumptions..............................................................................................................14](#_Toc458607254)

1. Use Case Name: LAD\_ Loan approval Management

Use Case ID: UC.LAPS\_LAD\_001

Brief Description: This Use Case describes the process by which the Loan Approval Department members login to the system, manages the loan application forms

1. Actor(s)
2. Loan Approval Department
3. Preconditions
4. The Loan approval Department are the members of Loan Application Department.
5. The members of LAD has the access to the Online Loan Application Processing system Portal
6. The members of LAD has a valid user id and a password
7. Flow of Events

4.1 Basic Flow

**Name**: LAD login to the system and processes the application form

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. The system displays the page with all the Loan programs available and also with two hyperlinks Applied list and Accepted list.
6. If LAD clicks on the Applied list, the system displays the list of customers applied to the specific loan program
7. LAD verifies the details provided by the customer and changes the status from applied to accepted or rejected.
8. After the status changes from applied to accepted an automatic mail is sent to the customer scheduling the interview for the document verification else rejection mail is sent and details are updated into the database
9. If LAD clicks on Accepted list, all the accepted applications are displayed
10. After interview the status changed to approved/rejected.
11. After the loan program is approved/rejected an automatic mail is sent to the customer informing the status and the details are updated into the database.

4.2 Alternative Flows

4.2.1 Alternate Flow 1

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. The system displays the page with all the Loan programs available and also with two hyperlinks Applied list and Accepted list.
6. LAD clicks on the Applied list
7. The system displays the list of customers applied to the specific loan program
8. LAD verifies the details provided by the customer and changes the status from applied to accepted or rejected.
9. If the status is changed to accepted an automatic mail is sent to the customer scheduling the interview for the document verification else rejection mail is sent.
10. LAD navigates back to the home page
11. LAD again enters the user id and password and enters the LAD page.
12. LAD clicks on Accepted list all the accepted applications are displayed
13. After interview the status changed to approved/rejected.
14. If the loan program is approved again a mail is sent to the customer informing the status and the details are updated into the database for further processing

4.2.2 Alternate Flow 2

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. The system displays the page with all the Loan programs available and also with two hyperlinks Applied list and Accepted list.
6. If LAD clicks on Accepted list, all the accepted applications are displayed
7. After interview the status changed to approved/rejected.
8. After the loan program is approved/rejected an automatic mail is sent to the customer informing the status and the details are updated into the database.
9. If LAD clicks on the Applied list, the system displays the list of customers applied to the specific loan program
10. LAD verifies the details provided by the customer and changes the status from applied to accepted or rejected.
11. After the status changes from applied to accepted an automatic mail is sent to the customer scheduling the interview for the document verification else rejection mail is sent and details are updated into the database

4.2.3 Alternate Flow 3

Exception Flow 1: Unsuccessful login

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database
4. If the authentication is unsuccessful, a login failure message is displayed

Exception Flow 2: HTTP session not created

1. LAD is navigated to the home page
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. On Successful login, the user-id and role fields are not stored in the HTTP session

Exception Flow 3: Userid is excedding the limit

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id more than 10 character
3. LAD enters password and clicks on the login button.
4. The system validates the user id and password
5. LAD geting error message for invalid Username

Exception Flow 4: Password is below the limit

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id
3. LAD enters password below 6 characters
4. clicks on the login button.
5. The system validates the user id and password
6. LAD geting error message for invalid password

Exception Flow 5: Database Connectivity

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. System displays error message regarding database connectivity

Exception Flow 6: Network Failure

1. LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. The system displays the page with all the Loan programs available and also with two hyperlinks Applied list and Accepted list.
6. If LAD clicks on the Applied list, the system displays the list of customers applied to the specific loan program
7. LAD verifies the details provided by the customer and changes the status from applied to accepted or rejected.
8. After the status changes from applied to accepted an automatic mail is sent to the customer scheduling the interview for the document verification else rejection mail is sent and details are updated into the database
9. LAD clicks on “Approved list”
10. The system displays error message regaring network failure.

Exception Flow 7: Session Expiry

1. LAD visits the Loan Application Processing System URLhttps://www.onlineloanapplication.com using any standard browser and clicks on the LAD login
2. LAD enters user-id and password and clicks on the login button.
3. The system validates the user id and password combination with the database.
4. On successful login, the LAD home page is displayed.
5. The system displays the page with all the Loan programs available and also with two hyperlinks Applied list and Accepted list.
6. LAD remains idle for some time
7. The system displays session expiry message
8. Post Conditions

| Flow Name | Post Condition |
| --- | --- |
| LAD visits the Loan Application Processing System URL https://www.onlineloanapplication.com using any standard browser | The home page of the Loan application Processing system should be displayed |
| LAD successful Login to application | LAD should naviagate to the LAD login page. |
| Administrator unsucessfull login | The application should display Error message to the Administrator for invalid userid or password |
| Exceeding Userid Limit | The application should didplay error message on invaid userid |
| Password below thye limit | The application should didplay error message on invaid password |
| Database Connectivity | The application should display error message for Database connectivity |
| Network failure | The application should display error message for Network failure |
| Session Expiry | The application should display error message for session expiry |

1. Special Requirements
2. Performance
3. On kiosks operating with a PSTN connection, users shall have greater than 50Kbps connection speed.
4. Application should responce within 6 sec. for all the request by the LAD
5. Availability
6. Application should be available for 24\*7 to Adminstrator,LAD and Customer
7. Security
8. On each page in the Loan Application Processing system web application checks for a valid user login by checking the value of a session variable.
9. users cannot directly access any web page of the application by simply entering the URL of that page on the address bar of the browser.
10. User Interface
    1. The letters on Menus shall be bold
    2. The active links shoul be displayed in red color
    3. The visisted links should be displayed in purpule color
    4. The Unvisited links should be displayed in blue
    5. The logout and back button should be available on every page of the application
    6. Look and feel and color of application should be proper
    7. In case of Field level validation error messages should be displayed in red color
11. Extension Points
12. Extension in Exception Flow 1:
13. If the customer has entered wrong user credentials
14. The system prompts the user to re-enter the credentials
15. User enters the username and password
16. The system validates the user id and password combination with the database.
17. On successful login, the admin home page is displayed

Extension in Exception flow 2:

In step 2, if the LAD has entered wrong user\_id credentials :

1. The system prompts the user to re-enter the credentials
2. User enters the username and password
3. The system takes user to the Step 2 of Basic Flow

Extension in Exception flow 3:

In step 9, if the system displays network failure

1. The LAD refreshes the page and again the home page is loaded
2. The sytem takes the user to the basic flow

Extension in Exception flow 4:

In step 6, if the session expiry message is displayed

1. The LAD refreshes the page and LAD is navigated to home page

2. The sytem takes the user to the basic flow

Extension in Alternate Flow x:

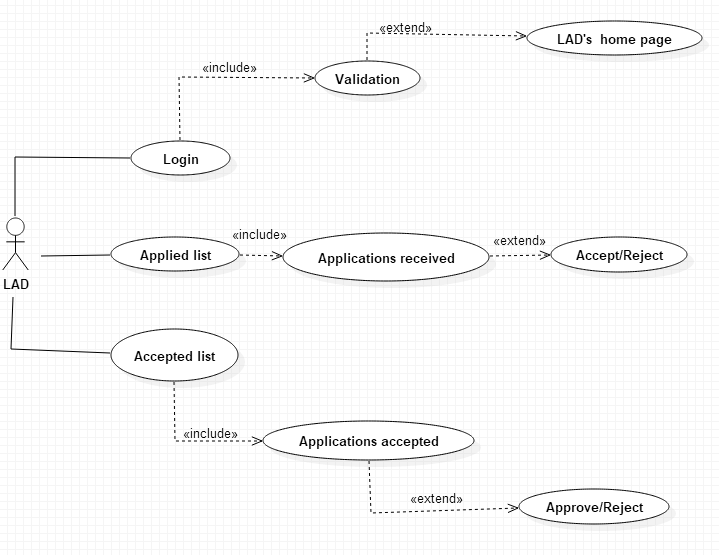
In step y, if the customer has entered wrong course name in the search option

1. The system displays error message saying no loan programs available
2. User either backs out of this use case, or retries after entering correct data
3. Business Rules

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
| BR01 | LAD should be valid | User got popup to re-enter the credentials. |
| BR02 | Applicant should be able to view the loan programs available and make necessary status change | Display notification message “ details not available” |
| BR03 | LAD should not be able to udate or delete the Exam details on portal. | Display message “Admin authentication is needed” |

1. Diagrams

Use Case Diagram



1. Scenarios

Success Scenarios

1. Successful LAD login
2. Successfully HTTP session got created
3. Successful updation of the status

Failure Scenarios

1. LAD login authentication fails
2. HTTP session not created
3. LAD not able to change the status
4. Issues
5. What if the HTTP session not created ?
6. What if the user is able to access the page of the application by simply entering the URL of that
7. page on the address bar of the browser?
8. UI Specifications

https://www.onlineloanapplication.com

1. Inter System Dependencies

**Module**: “Verification of Loan Application documents” gets impacted due to:

**Use case name:** Applying for Loan and Checking the status of Application

**Impact**: If the customer fails to provide the correct information the members of LAD may fail to take up the document verification.

1. Integration with an already existing System of the <<Customer>><<Not Applicable>>
2. Assumptions
3. Application is valid and up running
4. Application is launcing in all the browser
5. LAD should have valid username and password

( more e.g

1. The User should be authenticate.
2. User should know the valid URL of Loan Application Processing System.
3. User should have Google chrome browser for best view of site.

REVISION HISTORY OF THE WORK PRODUCT

<to be maintained by projects>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Date | Version # | Section Changed | Details of changes made | Approved By |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |