Use Case Specification

DMT/RM01/TMP

|  |  |
| --- | --- |
| Project Code | PRJ\_ Asset Management System\_001 |
| Project Name | Asset Management System |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Ramakrishna Mamidipaka | Assistant Manager | 26th June, 2019 |
| Reviewed by | Role | Date of Review |
| Ramakrishna | Assistant Manager | 26th June, 2019 |
| Approved by | Role | Date of Approval |
| Shilpa Bhosle | Deputy Manager | 27th June, 2019 |
| Circulation List |  | Version Number of the template:1.1 |
| Version Number | 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 ‘Asset Management System’ is restricted to the contents of this signed off use case.

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1. Use Case Name: Add to the Asset management System

Use Case ID: AMS.Admin.ADD

Brief Description: <<Brief Description of the use case in approx 4-5 lines>>

This Use Case describes the process by which admin add into the Asset Management System.

1. Actor(s):

1. Admin

*<<List the actors that can interact with this use case.*

*Note: Actors can be a sub system or other external system>>*

1. Preconditions
2. Admin has already registered on the Asset Management System
3. Admin has click the valid add link of Asset Management System and is directed to the home page of AMS
4. Admin has valid adding details

*<< List the preconditions that should be in place before executing this use case.*

*These preconditions include state under which other system/sub system/entities will be in. >>*

1. Flow of Events

4.1 Basic Flow

<< Basic Flow is the main flow or heart of the Use case. Use case starts when the actor does some action i.e. an actor always initiate a use Case. The use case should describe what the actor does and what the system does in response. It should be phrased in the form of a dialog between the actor and the system.

The use case should describe what happens inside the system, but not how or why. If information is exchanged, be specific about what is passed back and forth. For example, it is not very illuminating to say that the Actor enters customer information; it is better to say the Actor enters the customer’s name and address. A Glossary of Terms is often useful to keep the complexity of the use case manageable; it defines things like customer information there, to keep the use case from drowning in details. >>

Name: Successful Add to the Asset Management System

1. Admin clicks on the Add link on the Asset Management System home page.
2. The system displays Add page
3. Admin enters Asset name
4. Admin enters Asset Description
5. Admin enters Asset Quantity
6. Admin clicks on the Submit button
7. The system validates Asset name,Asset Description & Asset Quantity
8. The system navigates admin to the Add/Modify Asset Page
   1. Alternative Flows

<<More complex alternatives should be described in a separate section, which is referred to in the basic flow of events section. Think of the alternative flow sections like alternative behaviour – each alternative flow represents alternative behaviour (many times, because of exceptions that occur in the main flow). They may be as long as necessary to describe the events associated with the alternative behaviour. When an alternative flow ends, the events of the main flow of events are resumed unless otherwise stated.

Note: Alternate flow should resume back to Basic Flow or Use case Ends. Always define the return or exit step>>

* + 1. Alternate Flow 1

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin enters Asset name
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system validates Asset name,Asset Description & Asset Quantity
10. The system navigates admin to the Add/Modify Asset Page

4.2.2 Alternate Flow 2

1. Admin clicks on the Add/Modify Asset link on the Asset Management System home page
2. The system displays Login page
3. Admin enters name
4. Admin enters Password
5. Admin clicks on the Login button
6. The system validates Username & Password
7. The system navigates Admin to the Add Asset Page
8. Admin enters to Add new Asset
9. Admin enters Asset name
10. Admin enters Asset Description
11. Admin enters Asset Quantity
12. Admin clicks on the Submit button
13. The system validates Asset name,Asset Description & Asset Quantity

4.2.3 Alternate Flow 3

Exception Flow 1: Exceeded Add Asset

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin enters Asset name
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system validation fails due to invalid Asset name,Asset Description & Asset Quantity

Exception Flow 2: Exceeded Add Asset

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin not enters Asset name(leave field)
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system validation fails due to invalid Asset name

Exception Flow 3: Exceeded Add Asset

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin enters Asset name
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system validation fails due to not working of Submit Button

Exception Flow 4: Web Server Down

1. Admin clicks on the Login link on the Asset Management System home page
2. The system displays an error message regarding web server unavailability problem

Exception Flow 5: Database Connectivity Error

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin enters Asset name
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system displays an error message regarding database connectivity problem.

Exception Flow 6: Network Connectivity Error

1. Admin clicks on the Add/Modify link on the Asset Management System
2. The system displays Add Asset, Modify Asset and Delete Asset page
3. Admin clicks on the Add Asset link
4. Admin enters to Add new Asset
5. Admin enters Asset name
6. Admin enters Asset Description
7. Admin enters Asset Quantity
8. Admin clicks on the Submit button
9. The system displays an error message regarding network connectivity problem.
10. Post Conditions

<< Post conditions are the STATE where the system, sub-system and /or entities will be after Basic and /or Sub flow and/or Alternate flows are executed.

State the Post conditions for Basic flow + each and every Sub flow and Alternate flow.>>

| Flow Name | Post Condition |
| --- | --- |
| Successful admin add to the Asset Management System | Admin will be Adding in to the AMS successfully and system should navigate admin to the Add/Modify Page |
| Add to the Asset Management System with reattempt | Admin will be Adding in to the AMS successfully and system should navigate admin to the Add/Modify Asset Page |
| Add to the Asset Management System using click the Add/Modify Asset | Admin will be Adding in to the AMS successfully and system should navigate admin to the Add/Modify Asset Page |
| Exceeded add Attempts | The system should suspend the admin account and should inform the user that his/her account has been suspended |
| Web Server Down | The system should display an error message to the user regarding web server unavailability problem |
| Database Connectivity Error | The system should display an error message to the user regarding the database connectivity problem |
| Network Connectivity Error | The system should display an error message to the user regarding the network connectivity problem |

1. Special Requirements

<<A Special Requirement is typically a non-functional requirement that is specific to a use case but is not easily or naturally specified in the text of the use case’s event flow.

Examples of special requirements include legal and regulatory requirements, application standards, and quality attributes of the system to be built, including usability, reliability, performance or supportability requirements. Additionally, other system common requirements such as operating systems and environments, compatibility requirements, and design constraints should be captured in Supplementary Specification.>>

Performance

1. The click on ‘View admin’shall display th list of applicants within 15 seconds of admin request

Availability

* 1. The Users can add only on working days 24x7 .
  2. Application is up and running 24\*7

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.

Security

1. The system shall display the letters of PIN numbers in a masked format when they are entered by the customer.
2. Admin ADD Asset should not have user rights
3. The AMS will allow user to Cancel prompt should be displyed the Add Asset at any point.
4. After click ing on back on browser it should takes you back to the previous page in the list
5. After click ing on Forword on browser it should takes you forword to the next page in the list.
6. Admin Session should get expire if Admin is inactive for 10 mins.
7. Extension Points

<<Mention the Extension points of the use case.>>

Extension in Alternate Flow 1:

In step 7, if the customer has entered wrong user credentials :

1. The system prompts the user to re-enter the credentials

2. Admin enters the Assetname,Asset Description and Aseet Quantity

3. The system takes user to the Step 3 of 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 courses are available.
2. Admin either backs out of this use case, or retries after entering correct data.
3. Business Rules

<<Identify any Business Rules applicable to this Use Case. Any generic business rule should be captured in a separate Common Business rules document or in the supplementary specification>>

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
| BR01 | Admin must be valid | Admin is prompted to re-enter the Adding Details |
| BR02 | Same admin cannot adding details for two users at a time | Displayes error message “You have already add for a asset name” |
| BR03 | admin can view his status only by entering valid Employee\_Id | Displays error message “Invalid Employee\_Id” |

1. Diagrams

Use Case Diagram for User

<< Gives the relationship between Actors and Use cases [i.e. Main Use case, Include and Extends called by Main use case>>

Activity Diagram<<Not Applicable>>

<< Activity Diagram gives the high level interaction between the user, system and sub systems. Ideally only one activity diagram should be made per use case. >>

1. Scenarios

[Identify the scenarios using Basic Flow, Sub flow and Alternate flows]

Success Scenarios

[List different success scenario.]

* Successful user login to the Asset Management System
* Admin to the Asset Management System with reattempt
* Admin to the Asset Management System using Add Aseet

Failure Scenarios

[List different failure scenario]

<< Failure scenarios should include exceptions, validation of Use case and Common Business Rules, UI Validation and other failure conditions of the use case>>

* Exceeded Login Attempts
* Web Server Down
* Database Connectivity Error
* Network Connectivity Error

1. Issues

<< List any potential problems or known dependencies that are likely to cause this use case to fail (technical failure, staff absence, etc).

Note that this section should not have Queries related to this use case here, they should be tracked in a separate excel. If you wish you could link to that excel? >>

1. What is the maximum size of username and password that a user can have ?
2. What if the user is blocked after invalid login attempts for three times ?
3. UI Specifications

<< Provide a link to the UI specification document of the Use case. Please don’t embed the document here>>

1. Inter System Dependencies

<<Mention the related functionality within the application that is impacted because of this use case. E.g variable or value settings in this use-case which will have a direct impact on the functionality of another use-case. Or vice-versa.>>

Module: ‘Apply Online for Course’ gets impacted due to :

Use case name: Alternate Flow 1

Impact: If the user tries to apply for a course without login, he should be denied so. <<Mention the impact on the above mentioned Use case because of this use case>>

1. Integration with an already existing System of the <<Customer>><<Not Applicable>>

*<< This is especially applicable if the project at hand is an enhancement to an existing system.>>*

1. Assumptions

*<< List down all the assumptions considered by this use case>>*

1. The Admin should be authenticate.
2. Admin should know the valid URL of Asset Management System.
3. Admin 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 |  |  |  |  |  |