Use Case Specification

DMT/RM01/TMP

|  |  |
| --- | --- |
| Project Code | PRJ\_BANK\_EXAM\_PORTAL\_001 |
| Project Name | BANK EXAM PORTAL |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
|  | Analyst | 18th May, 2018 |
| Reviewed by | Role | Date of Review |
|  |  |  |
| Approved by | Role | Date of Approval |
|  |  |  |
| Circulation List |  | Version Number of the template:1.0 |
| Version Number | 1.0 |  |

<<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 ‘University Admission System’ is restricted to the contents of this signed off use case.

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1. Use Case Name: apply for exam in bank exam portal

Use Case ID: BEP.APPLY.EXAM\_001

Brief Description:

This Use Case describes the process by which applicant can apply for exam in Bank Exam Portal. For Login applicant must be already registered on the System.

1. Actor(s):

1. Applicant

1. Preconditions
2. Applicant has already registered on the Bank Exam Portal.
3. Applicant has entered the valid URL of University Admission System and is directed to the home page of UAS
4. Applicant has valid user id and the password

1. Flow of Events

4.1 Basic Flow

Name: Successful Application of exam

1. User clicks on the Login link on the University Admission System home page.
2. The system displays Login page
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system navigates user to the Course Registration 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. User clicks on the Login link on the University Admission System home page
2. The system displays Login page
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system validation fails due to invalid user credentials

4.2.2 Alternate Flow 2

1. User clicks on the Apply for Courses link on the University Admission System home page
2. The system displays Login page
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system navigates user to the Course Registration Page

4.2.3 Alternate Flow 3

Exception Flow 1: Exceeded Login Attempts

1. User clicks on the Login link on the University Admission System home page
2. The system displays Login page
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system validation fails due to invalid user credentials and no more login attempts remaining
8. The system suspends the user account
9. The system informs the user that his/her account has been suspended

Exception Flow 2: Web Server Down

1. User clicks on the Login link on the University Admission System home page
2. The system displays an error message regarding web server unavailability problem

Exception Flow 3: Database Connectivity Error

1. User clicks on the Login link on the University Admission System home page.
2. The system displays Login page.
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system displays an error message regarding database connectivity problem.

Exception Flow 4: Network Connectivity Error

1. User clicks on the Login link on the University Admission System home page.
2. The system displays Login page.
3. User enters Username
4. User enters Password
5. User clicks on the Login button
6. The system validates Username & Password
7. The system displays an error message regarding network connectivity problem.
8. 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 user login to the University Admission System | User will be logged in to the UAS successfully and system should navigate user to the Course Registration Page |
| Login to the University Admission System with reattempt | User will be logged in to the UAS successfully and system should navigate user to the Course Registration Page |
| Login to the University Admission System using Apply for Courses option | User will be logged in to the UAS successfully and system should navigate user to the Course Registration Page |
| Exceeded Login Attempts | The system should suspend the user 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 Applicants’shall display th list of applicants within 15 seconds of user request

Availability

* 1. The students can register only on working days 24x7 but cannot register on national holidays.
  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. User login should not have admin rights
3. The UAS will allow user to Cancel prompt should be displyed the registration 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. User Session should get expire if user 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. User enters the username and password

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. User 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 | User must be valid | User is prompted to re-enterr the login credentials |
| BR02 | Same user cannot register for two courses at a time | Displayes error message “You have already registered for a course” |
| BR03 | User can view his application status only by entering valid Application\_Id | Displays error message “Invalid Application\_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 University Admission System
* Login to the University Admission System with reattempt
* Login to the University Admission System using Apply for Courses option

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 User should be authenticate.
2. User should know the valid URL of University Admission 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 |  |  |  |  |  |