Use Case Specification

DMT/RM01/TMP

|  |  |
| --- | --- |
| Project Code | PRJ\_UniversityAdmissionSystem\_001 |
| Project Name | University Admission System |

|  |  |  |
| --- | --- | --- |
| Prepared/Modified by | Role | Date of Preparation |
| Neelima Padmawar | Assistant Manager | 7th August, 2016 |
| Reviewed by | Role | Date of Review |
| Dayanand Patil | Assistant Manager | 8th August, 2016 |
| Approved by | Role | Date of Approval |
| Shilpa Bhosle | Deputy Manager | 9th August, 2016 |
| 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 | 1.0 |  |  |  |  |  |
| 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.

TABLE OF CONTENTS

[1. Use Case Name: Login to the University Admission SystemMMMMMMMM 5](#_Toc494193086)

[2. Actor(s) 5](#_Toc494193087)

[3. Preconditions 5](#_Toc494193088)

[4. Flow of Events 5](#_Toc494193089)

[4.1 Basic Flow 5](#_Toc494193090)

[4.2 Alternative Flows 6](#_Toc494193091)

[4.2.1 Alternate Flow 1: successful login to uas on second attempt 6](#_Toc494193092)

[4.2.2 Alternate Flow 2 : Login to the UAS using Apply for Courses option 6](#_Toc494193093)

[4.2.3 Alternate Flow 3 6](#_Toc494193094)

[Exception Flow 1: Login Failure due to Exceeded Login Attempts 6](#_Toc494193095)

[Exception Flow 2: Web Server Down 6](#_Toc494193096)

[Exception Flow 3: Database Connectivity Error 7](#_Toc494193097)

[Exception Flow 4: Network Connectivity Error 7](#_Toc494193098)

[5. Post Conditions 7](#_Toc494193099)

[6. Special Requirements 8](#_Toc494193100)

[Performance 8](#_Toc494193101)

[Availability 8](#_Toc494193102)

[User Interface 8](#_Toc494193103)

[Security 8](#_Toc494193104)

[7. Extension Points 8](#_Toc494193105)

[Extension in Alternate Flow 1: 8](#_Toc494193106)

[8. Business Rules 8](#_Toc494193107)

[9. Diagrams 9](#_Toc494193108)

[Use Case Diagram for 9](#_Toc494193109)

[10. Scenarios 10](#_Toc494193110)

[Success Scenarios 10](#_Toc494193111)

[Failure Scenarios 10](#_Toc494193112)

[11. Issues 11](#_Toc494193113)

[12. UI Specifications 11](#_Toc494193114)

[13. Inter System Dependencies 11](#_Toc494193115)

[14. Integration with an already existing System of the <<Customer>> 11](#_Toc494193116)

[15. Assumptions 11](#_Toc494193117)

1. Use Case Name: Login to the University Admission System

**Use Case ID:**  UAS.USER.LOGIN\_001

**Brief Description:** This Use Case describes the process by which users log into the University

Admission System

1. Actor(s)
2. User
3. Preconditions
4. User has already registered on the University Admission System
5. User has entered the valid URL of University Admission System and is directed to the home page of UAS
6. User has valid user id and the password
7. Flow of Events

4.1 Basic Flow

Name: Successful login to the University Admission System

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

4.2.1 Alternate Flow 1: successful login to uas on second attempt

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
8. The system propmts the user to re-enter the username and password
9. The step 3 of Basic flow is followed.

4.2.2 Alternate Flow 2 : Login to the UAS using Apply for Courses option

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: Login Failure due to 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 for next 24 hrs.
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 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

| **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

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.

User Interface

* 1. The letters on Menus shall be bold
  2. The active links shoul be displayed in red color
  3. The visited links should be displayed in purpule color
  4. The logout and back button should be available on every page of the application

Security

1. The system shall display the letters of PIN numbers in a masked format when they are entered by the customer.
2. The UAS will allow user to Cancel the registration at any point.
3. Extension Points

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**

1. Business Rules

| Business Rule Name | Business Rule Description | System action (if BR fails) |
| --- | --- | --- |
|  | Exam I d cannot be duplicate | Exam details are not added and the eerror msxg. Related to duplicated exam id is displayed |
| 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 | Displays 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



1. Scenarios

Success Scenarios

* 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

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

1. Issues

* What is the maximum size of username and password that a user can have ?
* What if the user is blocked after invalid login attempts for three times ?

1. 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

**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.

1. Integration with an already existing System of the <<Customer>>

<< 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>>

REVISION HISTORY OF THE WORK PRODUCT

<to be maintained by projects>

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