**Use Case 1)**

**Description:**

Professor Loan Application is a feature of University of Central Missouri – CIS website that which is helps a professor to apply for a loan from the university. UCM provides loans to professor from the University foundation. professor may apply a loan for Home, car, children education etc. so, through this website a professor can apply for a loan amount for a tenure of years, when professor applies then the system calculates his eligibility based on the professor experience with university, maximum loan he can incur, marital status, income etc. then the system generate a calculated amount of loan and interest rate along with monthly interest amount that is waived off from his salary. Data base will have the details of professor experience, salary etc. which is on the model side of the application. The view is built on the ASP.net, HTML5 etc. to submit a form by the professor. The controller has the logic to calculate the professor load amount, generate the data, save to database and display it to the director for Approval/decline.

Use Case Description:

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-1 | | |
| **Use Case Name:** | Professor Loan Application | | |
| **Created By:** | Anirudh Ambatipati | **Last Updated By:** | Anirudh |
| **Date Created:** | 05/02/2017 | **Last Revision Date:** |  |
| **Actors:** | A professor of the university may apply for a loan from the University foundation. | | |
| **Description:** | Professor Loan application will some fields that needs to filled out by the professor and calculations are done based on the input from user | | |
| **Trigger:** | Professor fill up the loan application form and submits | | |
| **Pre Conditions:** | Professor is able to login to system | | |
| **Post Conditions:** | **Success:** The User is authenticated and the system displays a corresponding Loan application form upon user logins.  **Failure:** User is unable to log in for one or more reasons. | | |
| **Normal Flow:** | 1. Enter Username and Password 2. Login to the Loan application form 3. Enter his ID, Loan amount, tenure. 4. Submits the form with valid data | | |
| **Alternate Flow:** | 1. Invalid Username and Password 2. Re-enter the Username and Password 3. Normal flow continues | | |
| **Exceptions:** | * Power goes off while entering username and password * User Computer Crashes * Server down * Network Issues | | |
| **Includes:** |  | | |
| **Frequency of Use:** | On demand | | |
| **Special Requirements:** | Performance and security | | |
| **Assumptions:** | User understands English. | | |

**Use Case 2)**

**Description:**

Student scholarship Estimator is a functionality of the system where a student can login with his credentials and can get an estimate of scholar ship he/she will get and amount of fee he has to pay, this is calculated based on the student credits taken for that semester, current GPA, GRE score, Residential status, family income etc. the data/model will have the data of student like id, GRE score etc. in the data base, in the view that student has to submit a form with his current GPA, residential status , family income etc. in the controller all the calculations based on the business logic are done with respect to the student profile and results are displayed to the student.

Use Case Description:

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-2 | | |
| **Use Case Name:** | Scholar ship estimator Student | | |
| **Created By:** | Anirudh Ambatipati | **Last Updated By:** | Anirudh |
| **Date Created:** | 05/02/2017 | **Last Revision Date:** |  |
| **Actors:** | A Student of the university is able to verify his scholar ship and total fee estimate he has to pay | | |
| **Description:** | Student can calculate his fee estimation with scholar ship reduction by submitting a form with some mandatory fields | | |
| **Trigger:** | Student is able to fill up the form with appropriate data | | |
| **Pre Conditions:** | student is able to login to system | | |
| **Post Conditions:** | **Success:** The User is authenticated and the system displays a corresponding Student scholarship form upon user logins.  **Failure:** User is unable to log in for one or more reasons. | | |
| **Normal Flow:** | 1. Enter Username and Password 2. Login to the Student Scholarship form application form 3. Enter require fields and submit the form. | | |
| **Alternate Flow:** | 1. Invalid Username and Password 2. Re-enter the Username and Password 3. Normal flow continues | | |
| **Exceptions:** | * Power goes off while entering username and password * User Computer Crashes * Server down * Network Issues | | |
| **Includes:** |  | | |
| **Frequency of Use:** | On demand | | |
| **Special Requirements:** | Performance and security | | |
| **Assumptions:** | User understands English. | | |

**Use Case 3)**

**Description:**

Budget estimator for university Director, This use case is helpful in serving the purpose of a budget estimation report generator that which calculates the total revenue of the university by using the total count of university students and the revenue generate from them minus the money paid to professor salaries, professor loans, scholarships, maintenance and infrastructure amount entered by the director. So, the director is asked to enter the infrastructure and maintenance cost for the year then the system will generate a report that which shows whether university is in profits or loss for the fiscal year. The professor salary information, student count, scholar ship amounts, etc. are fetched from the database. The director is asked to enter the amount from a form that is view based on asp.net, html etc. and controller has the logic to calculate the Budget estimation of the university.

Use Case Description:

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-3 | | |
| **Use Case Name:** | Budget estimator for university | | |
| **Created By:** | Anirudh Ambatipati | **Last Updated By:** | Anirudh |
| **Date Created:** | 05/02/2017 | **Last Revision Date:** |  |
| **Actors:** | A Director of university is able to generate a Budget report of a fiscal year by submitting a form. | | |
| **Description:** | Director will be able to calculate and fetch a report of the financial status of the university based on the enrollments and expenses of the university. | | |
| **Trigger:** | Director is able to submit the form with appropriate data. | | |
| **Pre Conditions:** | Director is able to login to system | | |
| **Post Conditions:** | **Success:** The User is authenticated and the system displays a corresponding Budget estimator form upon user logins.  **Failure:** User is unable to log in for one or more reasons. | | |
| **Normal Flow:** | 1. Enter Username and Password 2. Login to the Budget estimation form application form 3. Enter require fields and submit the form. | | |
| **Alternate Flow:** | 1. Invalid Username and Password 2. Re-enter the Username and Password 3. Normal flow continues | | |
| **Exceptions:** | * Power goes off while entering username and password * User Computer Crashes * Server down * Network Issues | | |
| **Includes:** |  | | |
| **Frequency of Use:** | On demand | | |
| **Special Requirements:** | Performance and security | | |
| **Assumptions:** | User understands English. | | |

**Use Case 4)**

**Description:**

Student Job application and Analyzer, This use case helps a student to apply for a IT job posted on the website. Once the student selects the job he wants to apply for he/she will submit a form with some educational, job experience information. The educational information like GPA will be auto populated from the database. Once the user hits the submit button the system will run an analysis of the student profile submitted based on the GPA, job experience, technology chosen etc.. , will generate an analysis students probability of getting the job through a percentage and it also displays the matching job for his profile along with percentages. Through this application student will be able to analyze his/her profile going forward and can apply jobs that are best match for his skills or enhance his/her skill set.

Use Case Description:

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-4 | | |
| **Use Case Name:** | Job application and analyzer. | | |
| **Created By:** | Anirudh Ambatipati | **Last Updated By:** | Anirudh |
| **Date Created:** | 05/02/2017 | **Last Revision Date:** |  |
| **Actors:** | A Student is able to apply for a job by submitting a form. | | |
| **Description:** | Student will be able to submit a form for job application and generate an analysis of his/her skill set based on their profile. | | |
| **Trigger:** | Student is able to submit the form with appropriate data. | | |
| **Pre Conditions:** | Student is able to login to system | | |
| **Post Conditions:** | **Success:** The User is authenticated and the system displays a corresponding Budget estimator form upon user logins.  **Failure:** User is unable to log in for one or more reasons. | | |
| **Normal Flow:** | 1. Enter Username and Password 2. Login to the job application website 3. Enter require fields and submit the form. | | |
| **Alternate Flow:** | 1. Invalid Username and Password 2. Re-enter the Username and Password 3. Normal flow continues | | |
| **Exceptions:** | * Power goes off while entering username and password * User Computer Crashes * Server down * Network Issues | | |
| **Includes:** |  | | |
| **Frequency of Use:** | On demand | | |
| **Special Requirements:** | Performance and security | | |
| **Assumptions:** | User understands English. | | |