 Object Orientated

Programming

**Mid Term Project Detailed Requirements**

|  |  |
| --- | --- |
| Registration Number | 2020-CS-134 |
| Student Name | Zain Hassan |
| Project Name | Rubrics Based Evaluation |
| Project Description | In this project we will   * Manage Students   • Manage CLOs  • Manage Rubrics  • Manage Assessments  • Manage Rubric Levels  • Mark the evaluations against a student  And we will Show the class result on the basis of CLOs  And on the basis of Assessment wise.   * Administrator can Add Student, Delete Student, Update Student Details. * Teacher can Add CLOs, Add Question, Delete Question, Update Question, Add Rubric Level, Update Rubric Level, Add Assessment, Cancel Assessment, Update Assessment, Evaluate students. * Student can view their DMC by entering their Reg No. |
| Actors of the System | * Teacher * Student * Administrator |

**Use Case # 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Student | | |
| Primary Actor | Administrator | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Student | TextBox | isValidName() |
| Address of Student | TextArea | isValidAddress() |
| CNIC | TextBox | isValidCNIC() |
|  | Reg No | Text Box | isValidRegNo() |
| How To Access the use case | Top Menu > Manage Record > Add Student | | |
| On Success Return to Screen | List of Student | | |
| Screen Design |  | | |

**Use Case # 2**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete Student | | |
| Primary Actor | Administrator | | |
| List of Fields on screen | Field Name | Component | Validation |
| Reg No | TextBox | isValidRegNo() |
| How To Access the use case | Top Menu > Manage Record > Delete Student | | |
| On Success Return to Screen | List of Student | | |
| Screen Design |  | | |

**Use Case # 3**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Student Details | | |
| Primary Actor | Administrator | | |
| List of Fields on screen | Field Name | Component | Validation |
| Name of Student | TextBox | isValidName() |
| Address of Student | TextArea | isValidAddress() |
| CNIC | TextBox | isValidCNIC() |
|  | Reg No | TextBox | isValidRegNo() |
| How To Access the use case | Top Menu > Manage Record > Update Student details | | |
| On Success Return to Screen | List of Student | | |
| Screen Design |  | | |

**Use Case # 4**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add CLOs | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| CLO | TextBox | No Validation |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage ClOs >Add CLOs | | |
| On Success Return to Screen | List of CLOs | | |
| Screen Design |  | | |

**Use Case # 5**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Question | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Question | TextBox | No Validation |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage ClOs >CLO(n)>Add Question | | |
| On Success Return to Screen | List of Questions | | |
| Screen Design |  | | |

**Use Case # 6**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete Question | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Question No | TextBox | No Validation |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage ClOs >CLO(n)>Delete Question | | |
| On Success Return to Screen | List of Questions | | |
| Screen Design |  | | |

**Use Case # 7**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Question | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Question No | TextBox | No Validation |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage ClOs >CLO(n)>Update Question | | |
| On Success Return to Screen | List of Questions | | |
| Screen Design |  | | |

**Use Case # 8**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Rubric Level | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Rubric Level | TextBox | IsValidLevel() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage Rubrics >Add Rubric level | | |
| On Success Return to Screen | List of Rubrics | | |
| Screen Design |  | | |

**Use Case # 9**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Rubric Level | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Rubric Level | TextBox | IsValidLevel() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage Rubrics >Update Rubric level | | |
| On Success Return to Screen | List of Rubrics | | |
| Screen Design |  | | |

**Use Case # 10**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add Assesment | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Assesment | TextBox | isValidCLO() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage Assesment>Add Assesment | | |
| On Success Return to Screen | List of Assesment | | |
| Screen Design |  | | |

**Use Case # 11**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Cancel Assesment | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Assesment | TextBox | isValidCLO() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage Assesment>Cancel Assesment | | |
| On Success Return to Screen | List of Assesment | | |
| Screen Design |  | | |

**Use Case # 12**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update Assesment | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Assesment | TextBox | isValidCLO() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage Assesment>Update Assesment | | |
| On Success Return to Screen | List of Assesment | | |
| Screen Design |  | | |

**Use Case # 13**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Evaluation | | |
| Primary Actor | Teacher | | |
| List of Fields on screen | Field Name | Component | Validation |
| Reg No | TextBox | isValidRegNo() |
| CLO | TextBox | isValidCLO() |
| Question | TextBox | No Validation |
| How To Access the use case | Top Menu > Manage Assesment>Evaluation | | |
| On Success Return to Screen | List of Evaluation | | |
| Screen Design |  | | |

**Use Case # 14**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | View DMC | | |
| Primary Actor | Student | | |
| List of Fields on screen | Field Name | Component | Validation |
| Reg No | TextBox | isValidRegNo() |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Manage DMC | | |
| On Success Return to Screen | Main Menu | | |
| Screen Design |  | | |

**Format of Data in Files**

|  |  |
| --- | --- |
| **File Name** | Student.txt |
| **Type** | Text File |
| **Data format** | Student Name, Reg No, CLO, Percentage, Rubrics Level |

|  |  |
| --- | --- |
| **File Name** | Student.pdf |
| **Type** | Pdf File |
| **Data format** | Student Name, Reg No, CLO, Percentage, Rubrics Level |

***Vocabulary***

***Noun:***

By doing case study, the nouns found are:

* Administrator
* Teacher
* Student

***Verbs:***

* CLO
* Assessment
* Evaluation
* Rubrics
* DMC
* Questions

***CLASS DIAGRAM:***

