Software Requirement Specification Analysis

**Users**

1. Admin
2. Course Head
3. Subject Head
4. Faculty

**Admin**



**Login**

**Input:** Username

Password

Role

**Output:** Enter home page with success message or invalid username and password.

**Process:** System validate the inputs, if success then the system takes all details, fetch with data base if match provide home page, or with an error message

**Validation Rules:**

Username: Required- Min len.: 3, Max: 10

Password: Required- Min len.: 3, Max: 10

1. Role: Required- From combo box(Admin, Course Head, Subject Head, Faculty)

**Add Course Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| CH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| CH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |
| Password | Varchar(10) | Not Null | Min:3 Max:10 |
| Gender | Varchar(6) | Not Null | Min:4 Max:6 |
| Address | Varchar(50) | Not Null | Min:30 Max:200 |
| Photo | Varchar(20) | Not Null |  |
| Phone | Varchar(12) | Not Null | Min:10 Max:13 |
| Mail | Varchar(20) | Not Null | Min:10 Max:30 |
| DOB | Date | Not Null | Date |
| DOJ | Date | Not Null | Date |
| Status | Varchar(8) | Not Null | Enabled or Disabled |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validate the inputs and if the message is success the data get stored into the data base

**Edit Course Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| CH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| CH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show all the fields of the that particular id for editing

**Process:** System validate the inputs and if the message is success the data get restored into the data base

**Remove Course Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| CH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| CH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show a verifying message for confirmation.

**Process:** System validate the inputs and if the message is success the data get removed from the data base

**Add Subject Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| SH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| SH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |
| Password | Varchar(10) | Not Null | Min:3 Max:10 |
| Gender | Varchar(6) | Not Null | Min:4 Max:6 |
| Address | Varchar(50) | Not Null | Min:30 Max:200 |
| Photo | Varchar(20) | Not Null |  |
| Phone | Varchar(12) | Not Null | Min:10 Max:13 |
| Mail | Varchar(20) | Not Null | Min:10 Max:30 |
| DOB | Date | Not Null | Date |
| DOJ | Date | Not Null | Date |
| Status | Varchar(8) | Not Null | Enabled or Disabled |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validate the inputs and if the message is success the data get stored into the data base

**Edit Subject Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| SH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| SH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show all the fields of the that particular id for editing

**Process:** System validate the inputs and if the message is success the data get restored into the data base

**Remove Subject Head**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| SH\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| SH\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show a verifying message for confirmation.

**Process:** System validate the inputs and if the message is success the data get removed from the data base

**Add Course**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| C\_id | Varchar(3) | Primary Key | Min:3 Max :6 |
| Course\_Name | Varchar(20) | Not Null | Min:2 Max:10 |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validate the inputs and if the message is success the data get stored into the data base

**Edit Course**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| C\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| Course\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show all the fields of the that particular id for editing

**Process:** System validate the inputs and if the message is success the data get restored into the data base

**Remove Course**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| C\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| Course\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show a verifying message for confirmation.

**Process:** System validate the inputs and if the message is success the data get removed from the data base

**Add Subject**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| S\_id | Varchar(3) | Primary Key | Min:3 Max :6 |
| S\_Name | Varchar(20) | Not Null | Min:2 Max:10 |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validate the inputs and if the message is success the data get stored into the data base

**Edit Subject**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| S\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| C\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show all the fields of the that particular id for editing

**Process:** System validate the inputs and if the message is success the data get restored into the data base

**Remove Subject**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| C\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| C\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show a verifying message for confirmation.

**Process:** System validate the inputs and if the message is success the data get removed from the data base

**Question Paper Generation**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Data Type | Constraints | Validation |
| GQ\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| S\_Id | Varchar(3) | Foreign Key | Min:3 Max:10 |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validates the inputs and if the message is success the data get stored into the data base. And the system generated question paper will E-mail to all Course Head on Exam dates in decrypted format.

**Course Admin**



**Subject and Course**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feid Name** | **Data type** | **Constraints** | **Validation** |
| C\_Id | Varchar(3) | Foreign Key | Min:3 Max:10 |
| S\_Id | Varchar(3) | Foreign Key | Min:3 Max:10 |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validates the inputs and if the message is success the data get stored into the data base. That particular subject is assigned to that course.

**Add Faculty**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| F\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| F\_Name | Varchar(20) | Not Null | Min:3 Max:10 |
| Password | Varchar(10) | Not Null | Min:3 Max:10 |
| Gender | Varchar(6) | Not Null | Min:4 Max:6 |
| Address | Varchar(50) | Not Null | Min:30 Max:200 |
| Photo | Varchar(20) | Not Null |  |
| Phone | Varchar(12) | Not Null | Min:10 Max:13 |
| Mail | Varchar(20) | Not Null | Min:10 Max:30 |
| DOB | Date | Not Null | Date |
| DOJ | Date | Not Null | Date |
| Status | Varchar(8) | Not Null | Enabled or Disabled |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validate the inputs and if the message is success the data get stored into the data base

**Edit Faculty**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| F\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| F\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show all the fields of the that particular id for editing

**Process:** System validate the inputs and if the message is success the data get restored into the data base

**Remove Faculty**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Validation** |
| F\_Id | Varchar(3) | Primary Key | Min:3 Max:10 |
| F\_Name | Varchar(20) | Not Null | Min:3 Max:10 |

**Output:** Show a verifying message for confirmation.

**Process:** System validate the inputs and if the message is success the data get removed from the data base

**Faculty and Subject**

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Feid Name** | **Data type** | **Constraints** | **Validation** |
| F\_Id | Varchar(3) | Foreign Key | Min:3 Max:10 |
| S\_Id | Varchar(3) | Foreign Key | Min:3 Max:10 |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validates the inputs and if the message is success the data get stored into the data base. That particular subject is assigned to that faculty.

**Subject Admin**



**Input:**

|  |  |  |
| --- | --- | --- |
| Field Name | Data Type | Constraints |
| QP\_Id | Varchar(3) | Primary Key |
| S\_Id | Varchar(3) | Foreign Key |

**Output:** View all the questions submitted by the faculty for deletion of invalid and repeated questions.

**Process:** System validates the inputs and if the message is success the questions approved by the subject admin into the data base in an encrypted format.

**Faculty**



**Input:**

|  |  |  |
| --- | --- | --- |
| Field Name | Data Type | Constraints |
| Q\_Id | Varchar(3) | Primary Key |
| S\_Id | Varchar(3) | Foreign Key |
| F\_Id | Varchar(3) | Foreign Key |
| Question | Varchar(150) | Not Null |
| Photo | Varchar(20) | Not Null |

**Output:** Successfully submitted or an error occurred, check all fields

**Process:** System validates the inputs and if the message is success the data get stored into the data base. This particular question is stored into the database with all required details.