Software Requirements Specification

Faculty Information System (FIS)

Table of Contents

Table of Contents ii

Revision History iii

Definitions, Acronyms, and Abbreviations iii

1. Introduction 1

1.1 Purpose 1

1.2 Intended Audience 1

1.3 Project Scope 1

1.4 References 1

2. Overall Description 2

2.1 Product Perspective 2

2.2 Product Functions 2

2.3 User Classes and Characteristics 2

2.4 Operating Environment 2

2.5 Design and Implementation Constraints 3

2.6 User Documentation 3

2.7 Assumptions and Dependencies 3

3. External Interface Requirements 4

3.1 User Interfaces 4

3.2 Hardware Interfaces 4

3.3 Software Interfaces 4

3.4 Communications Interfaces 4

4. Functional Requirements 4

4.1 UC-1 Faculty Registration 5

4.2 UC-2 Faculty Login 6

4.3 UC-3 Enter new record by faculty 7

4.4 UC-4 Edit records by faculty 8

4.5 UC-5 Enter new record by Admin 8

4.6 UC-6 Edit records by admin 8

4.7 UC-7 Search Information 9

4.8 UC-8 Browse Faculty by Dept 9

4.9 UC-9 Browse Faculty by Research area 10

4.10 UC-10 Apply for Leave 10

4.11 UC-11 View Leaves status 11

4.12 UC-12 Set view permission for specific users by System admin 11

4.13 UC-13 Update faculty contact information by admin 11

4.14 UC-14 Update faculty family information by admin 12

4.15 UC-15 Enter/update faculty current service information by admin 13

4.16 UC-16 Enter/Update previous posting information by admin 13

4.17 UC-17 Enter/update promotion information by admin 14

4.18 UC-18 Enter/update liens by admin 14

4.19 UC-19 Enter/update deputations by admin 15

4.20 UC-20 Enter/Update disciplinary actions by admin 16

4.21 UC-21 Upload NOC by admin 16

4.22 UC-22 Review ACR by admin 17

4.23 UC-23 Move to course page to update course materials 17

5. Requirements 18

5.1 Performance Requirements 18

5.2 Safety and Security Requirements 18

5.3 Software Quality Attributes 18

5.3.1 Usability 18

5.3.2 Reliability and Robustness 18

5.3.3 Functionality 18

Appendix A: Access area of user groups 19

Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** | **Reviewer** |
| 01.11.2019 | 0.1 | Initial version | Shohel Ahmed |  |
|  |  |  |  |  |

Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| SDLC | Software Development Life Cycle |
| FIS | Faculty Information System |
| QA | Quality Assurance |
| GUI | Graphical User Interface |
| HTTP | Hyper Text Transfer protocol |
| HTTPS | Hypertext Transfer Protocol Secure |
| HTML | Hypertext Markup Language |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Introduction

## Purpose

The purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. It will contain the specifications and functionalities of the proposed Faculty Information System (FIS). This document describes the project's target audience and its user interface, hardware and software requirements. It may also help any designer and developer to assist in software development lifecycle (SDLC). But it may not fully describe how the system works or how the user should use it. For that purpose, one should read the user’s guide of FIS.

## Intended Audience

This SRS document is intended for:

− Developers who can review project’s capabilities and more easily understand where their efforts should be targeted to improve or add more features to it (it sets the guidelines for each features’ design and coding).

− QA member can use this document as a base for their testing strategy as some bugs are easier to find using a requirements document. This way testing becomes more methodically organized.

− SW architect need to extensively follow this document to prepare the system architecture.  
− End users of this application who wish to read about what this project can do.

## Project Scope

The scope of this project is to utilize the existing available faculty information of ABC UNIVERSITY to build a web-based customized platform that will serve as the master record of data about all full- and part-time faculties. Under the scope of this project, initially following capabilities will be delivered:

* Search/browse faculty
* View/edit faculty records
* Role based view control of faculty information
* Report generation

## References

Will be updated later

# Overall Description

## Product Perspective

FIS is a web-based platform that is used to collect, manage and report faculty teaching, research, and service activities, along with other professional accomplishments. This system will be an information database and can be used by Universities to hold their faculty information and display it on the web. People with minimal web browser experience can use the system to their fullest.

## Product Functions

Major functionalities of the system are defined as below:

* Faculty search
* View records
* Report generation
* Leave management
* Faculty personal info management
* Faculty service info management
* Faculty educational info management
* Course information management

## User Classes and Characteristics

All users of the system can be categorized in below types.

**System Admin:** based on the request provide admin privilege.

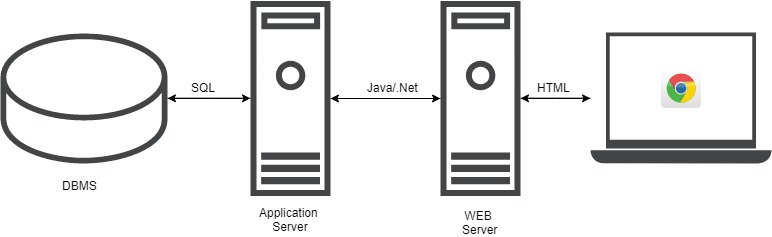
**Admin:** Admin user will be able to insert and delete records. They will have master view permission to see all the available information.

**Faculties:** can login to the system and only modify his/her records.

**Other user:** can only view the publicly accessible pages.

## Operating Environment

The FIS web site will be operated from the ABC UNIVERSITY server. When a user intends to access the FIS site he will be redirected to the ABC UNIVERSITY server where the site is hosted and that will help user to access the desired data to and from our database. Below operating environment can be utilized to serve the purpose.



A standard Web server, or Apache’s Web server, manages communication between the browser and the application server using the Hypertext Markup Language (HTML). The application server manages multiple user sessions logged onto the system at the same time as well as more complex business rule execution. And the application server also communicates to the centralized database server for any DB request

## Design and Implementation Constraints

The system shall be developed using open source tools and shall run on all popular web browsers. Database shall be implemented at least using a centralized database management system. The proposed system shall be designed such that they run on can be upgraded on a regular basis without any impact to overall UID system in use. The design must allow for replacement of hardware components with comparable hardware components from any vendor with minimal impact on the remaining hardware components.

## User Documentation

User guide/manual will be prepared and updated later.

## Assumptions and Dependencies

It is assumed that required faculty data will be made available for the project in some phase of its completion. It is also assumed that the user is familiar with an internet browser and also familiar with handling the keyboard and mouse. Since the application is a web-based application there is a need for the internet browser and it is also assumed that the users will possess decent internet connectivity.

Although basic password authentication and role-based security mechanism will be used to protect FIS from unauthorized access, functionality such as inserting, deleting, and updating are assumed to be sufficiently protected under the existing security policies applied by the FIS developing team.

# External Interface Requirements

## User Interfaces

FIS’s GUI shall be a simple designed user interface which shall load all the Interfaces that constitute the basic functions of the application.

The most common features of FIS’s GUI are:

* Faculty information Search
* Login
* Registration
* Admin view
* Data insert/edit by faculty / admin

N.B.: GUI list will be updated later based on the IA (information architecture) document.

## Hardware Interfaces

At least two servers with 16GB RAM should be used for FIS

## Software Interfaces

FIS is a Web-based customized platform and it should run on all popular web browsers. Internet connection is also required.

## Communications Interfaces

User on Intranet will be using HTTP/HTTPS protocol.

# Functional Requirements

Below is the list of functional requirements of the proposed system.

|  |  |
| --- | --- |
| **Use case #** | **Title** |
| UC-1 | Faculty Registration |
| UC-2 | Faculty log in |
| UC-3 | Enter new record by faculty |
| UC-4 | Modify old records by faculty |
| UC-5 | Enter new record by Admin |
| UC-6 | Modify old records by Admin |
| UC-7 | Search information |
| UC-8 | Browse Faculty by Dept |
| UC-9 | Browse Faculty by Research area |
| UC-10 | Apply for Leave |
| UC-11 | View Leaves status |
| UC-12 | Set view permission for specific users by System admin |
| UC-13 | Enter/update contact information by admin |
| UC-14 | Enter/update family information by admin |
| UC-15 | Enter/update faculty current service information by admin |
| UC-16 | Enter/Update previous posting information by admin |
| UC-17 | Enter/update promotion information by admin |
| UC-18 | Enter/update liens by admin |
| UC-19 | Enter/update deputations by admin |
| UC-20 | Enter/Update disciplinary actions by admin |
| UC-21 | Upload NOC by admin |
| UC-22 | Review ACR by admin |
| UC-23 | Move to course page to update course materials |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## UC-1 Faculty Registration

|  |  |
| --- | --- |
| **UC-1** | Faculty Registration |
| **Primary Actor(s)** | Any Faculty |
| **Description** | Faculty creates user name and password to login to the system |
| **Trigger** | Faculty Registration |
| **Pre-conditions** | Faculty is not logged in and not already registered |
| **Post-conditions** | Faculty UID and Password will be created in the system for valid log in. |
| **Main Success Scenario** | 1. Enter his/her ID number shown in his ID card 2. System checks available account against the ID number 3. Faculty enter his/her desired user name 4. User retypes the password 5. System checks if the user name is not already in use 6. System checks if the two passwords are identical 7. Enter valid email and submit 8. Choose Category (military /Civil) 9. System sends email verification link to the email 10. Once the email verification is done by the faculty, system will register the new faculty with the given parameters (user name, password) |
| **Extensions** | 2a. Registered account already exists for the ID number  - Faculty will not be able to register with this ID number. Need to check with admin.  5a. Faculty name is already in use  - faculty is requested to select another user name and password  6a. The two passwords are different  - Faculty is requested to retype (twice) his/her password |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-2 Faculty Login

|  |  |
| --- | --- |
| **UC-2** | Faculty Login |
| **Primary Actor(s)** | Any Faculty |
| **Description** | Faculty login to the system with valid user ID and password user |
| **Trigger** | Login |
| **Pre-conditions** | Faculty is not logged in and already registered |
| **Post-conditions** | Faculty will be redirected to his/her personal page |
| **Main Success Scenario** | 1. Enter user ID 2. Enter Password 3. Press login button 4. System cheches if user ID exists 5. System checks if password matches for given user ID 6. Once the user ID and password matches, user logged in to the system |
| **Extensions** | 4a. user ID does not exist  - Faculty will not be able to login and proper error message will be shown to the user  5a. Password mismatch  - faculty will be requested to retry password (max 5 times) |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-3 Enter new record by faculty

|  |  |
| --- | --- |
| **UC-3** | Enter new record by faculty |
| **Primary Actor(s)** | Any Faculty |
| **Description** | Enter new record in the database through form |
| **Trigger** | Add new record |
| **Pre-conditions** | Faculty need to be logged in |
| **Post-conditions** | New record will be available to users based on their access permission |
| **Main Success Scenario** | 1. Expand the section to add new record 2. Click on the add icon 3. Provide mandatory and valid data in the form 4. Save and close |
| **Extensions** | 3a. Input data format is not valid  - system will prompt warning if invalid data is provided to any filed  4a. try to save without filling the mandatory field.  - form will not close and warning will be shown to the user |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-4 Edit records by faculty

|  |  |
| --- | --- |
| **UC-4** | Edit records by faculty |
| **Primary Actor(s)** | Any Faculty |
| **Description** | Modify old records in the database through form |
| **Trigger** | Modify old records |
| **Pre-conditions** | Faculty need to be logged in |
| **Post-conditions** | Modified records will be available to users based on their access permission |
| **Main Success Scenario** | 1. Expand the desired section to modify records 2. Click on the edit icon 3. fill the desired field in the form 4. Save and close |
| **Extensions** | 3a. modified data format is not valid  - system will prompt warning if invalid data is provided to any filed |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-5 Enter new record by Admin

|  |  |
| --- | --- |
| **UC-5** | Enter records by faculty |
| **Primary Actor(s)** | Admin |
| **Description** | Enter new record in the database through form |
| **Trigger** | Add new record |
| **Pre-conditions** | Admin need to be logged in |
| **Post-conditions** | Added records will be available to users based on the access permission |
| **Main Success Scenario** | 1. Chose the desired area to add new data 2. Enter new data in the form 3. Save and close |
| **Extensions** | 2a. entered data format is not valid  - system will prompt warning if invalid data is provided to any filed |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-6 Edit records by admin

|  |  |
| --- | --- |
| **UC-6** | Edit records by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Modify old records in the database through form |
| **Trigger** | Modify old records |
| **Pre-conditions** | Admin need to be logged in |
| **Post-conditions** | Modified records will be available to users based on their access permission |
| **Main Success Scenario** | 1. Select user to modify his/her records 2. Chose the desired section to modify data 3. Modify existing data in the form 4. Save and close |
| **Extensions** | 3a. modified data format is not valid  - system will prompt warning if invalid data is provided to any filed |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-7 Search Information

|  |  |
| --- | --- |
| **UC-8** | Search Information |
| **Primary Actor(s)** | Any user |
| **Description** | Can search for faculty information |
| **Trigger** | Search |
| **Pre-conditions** | FIS need to be open |
| **Post-conditions** | Modified records will be available to users based on their access permission |
| **Main Success Scenario** | 1. Write search term/terms in the search box 2. Press search |
| **Extensions** | NA |
| **Priority** | High |
| **Special Requirements** | NA |
| **Open Questions** | ??? |

## UC-8 Browse Faculty by Dept

|  |  |
| --- | --- |
| **UC-8** | Browse Faculty by Dept |
| **Primary Actor(s)** | Any user |
| **Description** | Able to browse faculty by their dept |
| **Trigger** | Browse by dept |
| **Pre-conditions** | FIS need to be open |
| **Post-conditions** | Dept. faculty list will be open |
| **Main Success Scenario** | 1. Select menu 2. Chose browse by dept |
| **Extensions** | Dept will be sorted alphabetically and first one will be shown by default and user will be able to choose other dept from the dropdown list |
| **Priority** | High |
| **Special Requirements** | ?? |
| **Open Questions** | ??? |

## UC-9 Browse Faculty by Research area

|  |  |
| --- | --- |
| **UC-9** | Browse Faculty by Research area |
| **Primary Actor(s)** | Any user |
| **Description** | Able to browse faculty by their research area |
| **Trigger** | Browse by research area |
| **Pre-conditions** | FIS need to be open |
| **Post-conditions** | faculty list will be open based on research area |
| **Main Success Scenario** | 1. Select menu 2. Chose browse by research area |
| **Extensions** | Research areas will be sorted alphabetically and first one will be shown by default and user will be able to choose other research area from the dropdown list |
| **Priority** | High |
| **Special Requirements** | ?? |
| **Open Questions** | ??? |

## UC-10 Apply for Leave

|  |  |
| --- | --- |
| **UC-10** | Apply for leave |
| **Primary Actor(s)** | Faculty and admin |
| **Description** | Authorized user can apply for leave |
| **Trigger** | Apply leave |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - New entry will be shown in the Leave status table of the user  - approver admin will see new entry in the leave approval pending list |
| **Main Success Scenario** | 1. Click on apply leave 2. Choose leave type 3. Choose the leave start date and end date 4. Choose leave approver 5. Click on apply now |
| **Extensions** | 2a. user is not eligible for selected leave type  - system will prompt warning to choose another type  5a. click apply now without provide proper information  - system will prompt warning to provide proper information |
| **Priority** | High |
| **Special Requirements** | ?? |
| **Open Questions** | ??? |

## UC-11 View Leaves status

|  |  |
| --- | --- |
| **UC-11** | View Leaves status |
| **Primary Actor(s)** | Faculty and admin |
| **Description** | Authorized user can see his/her applied leave status |
| **Trigger** | Apply leave |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - user can see his/her applied leave status |
| **Main Success Scenario** | 1. Click on apply leave 2. Lower section of Apply leave page will show the leave status 3. Click on the individual row will show the details of applied leave |
| **Extensions** | NA |
| **Priority** | Medium |
| **Special Requirements** | ?? |
| **Open Questions** | ??? |

## UC-12 Set view permission for specific users by System admin

|  |  |
| --- | --- |
| **UC-12** | Set view permission for specific users by System admin |
| **Primary Actor(s)** | System admin |
| **Description** | System admin is allowed to set specific view permission for other users |
| **Trigger** | login |
| **Pre-conditions** | System admin need to be logged in |
| **Post-conditions** | - view permission applied by sys admin will be impacted |
| **Main Success Scenario** | 1. Log in with system admin user credentials 2. Set view permission for different user group (As in Appendix: B) |
| **Extensions** | NA |
| **Priority** | Medium |
| **Special Requirements** | ?? |
| **Open Questions** | ??? |

## UC-13 Update faculty contact information by admin

|  |  |
| --- | --- |
| **UC-13** | Update faculty contact information by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update contact information of a faculty |
| **Trigger** | Update personal info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - contact info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Chose faculty to enter/update his/her info 2. Choose personal info 3. Enter contact info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | Contact info may contain:  Present Address  Permanent Address  Home phone  Mobile  email  emergency contact  relation with emergency contact |
| **Open Questions** | ??? |

## UC-14 Update faculty family information by admin

|  |  |
| --- | --- |
| **UC-14** | Update faculty family information by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update service information of a faculty |
| **Trigger** | Update personal info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - family members info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Chose faculty to enter/update his/her family info 2. Choose personal info 3. Enter family info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | Family info may contain:  Name  relation  Occupation  address |
| **Open Questions** | ??? |

## UC-15 Enter/update faculty current service information by admin

|  |  |
| --- | --- |
| **UC-15** | Enter/update faculty current service information by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update service information of a faculty |
| **Trigger** | Update personal info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - current service info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Chose faculty to enter/update his/her service info 2. Choose service info 3. Enter service info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | service info may contain:  Designation  place of posting  pay-scale  posted as  Tribal  freedom fighter  joining date (current position)  Lives in Govt. Quarter |
| **Open Questions** | ??? |

## UC-16 Enter/Update previous posting information by admin

|  |  |
| --- | --- |
| **UC-16** | Enter/update faculty current previous posting by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update previous posting information of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - previous posting info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Choose faculty to enter/update his/her previous posting info 2. Choose service info 3. Enter previous posting info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | previous posting info may contain:  Designation As  place of posting  Joining date  Release date |
| **Open Questions** | ??? |

## UC-17 Enter/update promotion information by admin

|  |  |
| --- | --- |
| **UC-17** | Enter/update promotion information by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update promotion information of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - promotion info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Choose faculty to enter/update his/her promotion info 2. Choose service info 3. Enter previous promotion info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | Promotion info may contain:  Designation  promoted on  Designation as on Last Promotion |
| **Open Questions** | ??? |

## UC-18 Enter/update liens by admin

|  |  |
| --- | --- |
| **UC-18** | Enter/update liens by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update liens of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - liens info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Choose faculty to enter/update his/her liens info 2. Choose service info 3. Enter previous promotion info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | liens info may contain:  Type  Approved From  Approved Till  GO No.  GO Date |
| **Open Questions** | ??? |

## UC-19 Enter/update deputations by admin

|  |  |
| --- | --- |
| **UC-19** | Enter/update deputations by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update deputation of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - deputation info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Choose faculty to enter/update his/her deputation info 2. Choose service info 3. Enter deputation info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | Deputation info may contain:  Type  Approved From  Approved Till  Total approved days  GO No.  GO Date |
| **Open Questions** | ??? |

## UC-20 Enter/Update disciplinary actions by admin

|  |  |
| --- | --- |
| **UC-20** | Enter/Update disciplinary actions by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will enter/update disciplinary action info of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - disciplinary action info of faculty will be stored in DB and can be viewed |
| **Main Success Scenario** | 1. Choose faculty to enter/update his/her disciplinary action info 2. Choose service info 3. Enter disciplinary action info 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | Disciplinary action info may contain:  Complain Category  Date  Complain description  Decision |
| **Open Questions** | ??? |

## UC-21 Upload NOC by admin

|  |  |
| --- | --- |
| **UC-21** | Upload NOC by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will upload NOC of a faculty |
| **Trigger** | Update service info |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - logged in faculty can be able to view the NOC and download from his/her page |
| **Main Success Scenario** | 1. Choose faculty to upload NOC 2. Choose service info 3. Upload NOC 4. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** | NOC upload may contain:  Upload date  GO No  GO Date |
| **Open Questions** | ??? |

## UC-22 Review ACR by admin

|  |  |
| --- | --- |
| **UC-22** | Review ACR by admin |
| **Primary Actor(s)** | Admin |
| **Description** | Admin will able to download/review faculty ACR |
| **Trigger** | Download |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | * Logged in faculty will be able to see the reviewed ACR in his/her page |
| **Main Success Scenario** | 1. Choose faculty to review his/her ACR 2. Choose download 3. From ARC section select review option 4. Perform the review 5. Save and close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** |  |
| **Open Questions** | ??? |

## UC-23 Move to course page to update course materials

|  |  |
| --- | --- |
| **UC-23** | Move to course page to update course materials |
| **Primary Actor(s)** | Faculty |
| **Description** | Faculty can update the course information he is conducting/conducted |
| **Trigger** | Couse Conducting |
| **Pre-conditions** | User need to be logged in |
| **Post-conditions** | - updated course info will be available to authorized users |
| **Main Success Scenario** | 1. Select Term from dropdown menu under Courser Conducting 2. Choose the course from the list to update. 3. Update in the redirected google classroom page 4. Close |
| **Extensions** |  |
| **Priority** | High |
| **Special Requirements** |  |
| **Open Questions** | ??? |

# Requirements

## Performance Requirements

All pages should be loaded within three seconds or less, assuming a broadband connection on the client side. The system should support as many as 1000 online users simultaneously with negligible response delay.

## Safety and Security Requirements

Only authorized users will be permitted to access the system to manipulate data. Safety and Security needs to be addressed to handle the following situations:

* Exposure of sensitive personal data such as NID, Payroll and Benefits data among employees
* Loss of sensitive personnel data outside the enterprise
* Unauthorized updates of personal data
* Sharing data with external organizations and service providers.

## Software Quality Attributes

### Usability

The web interface of the system will be designed to be concise and user-friendly, with a graphical interface to help users identify the proper choice on the screen. Users are expected to be able to use the system productively with minimal or no training.

### Reliability and Robustness

The system should be available at all times (24 hours a day, 7 days a week) except for monthly maintenance of no more than 10 minutes. The system backup onto a second server will be performed during the maintenance time as well as once daily (at midnight) and system recovery will only be executed as necessary. In addition, the secondary server will be prepared to help recover in the event of hardware failure.

### Functionality

The system should be able to provide right forms to the authorized user for data entry. Also it should provide right option for data modification.

Appendix A: Access area of user groups

|  |  |  |  |
| --- | --- | --- | --- |
| **Information** | **Admin (Logged in)** | **Faculty (logged in)** | **Others** |
| Personal Number | Yes | Yes | No |
| National ID Number | Yes | Yes | No |
| Rank (Temporary) | Yes | Yes | Yes |
| Auth (Gazette Notification/MS Br/CORO Order etc) | Yes | Yes | No |
| Rank (Substantive/Substantive Temporary) |  |  | No |
| Auth (Gazette Notification/MS Br/CORO Order etc) |  |  | No |
| NAME (IN BLOCK CAPITAL): | Yes | Yes | Yes |
| নাম (বাংলায়) | Yes | Yes | Yes |
| Arms/Service | Yes | Yes | Yes |
| Date of Birth | Yes | Yes | No |
| Place (Village/City) | Yes | Yes | No |
| Birth Certificate Number | Yes | Yes | No |
| Height | Yes | Yes | No |
| Weight | Yes | Yes | No |
| Build | Yes | Yes | No |
| Eyes (Colour) | Yes | Yes | No |
| Visible Identification Mark(s) | Yes | Yes | No |
| Blood Group | Yes | Yes | No |
| Medical History Details | Yes | Yes | No |
| Present Medical Category | Yes | Yes | No |
| Present Nature of Disability (if any) | Yes | Yes | No |
| Present Attributably (if any) | Yes | Yes | No |
| Previous Medical History (Add Additional Pages for More Information) | Yes | Yes | No |
| Religion | Yes | Yes | Yes |
| Caste | Yes | Yes | No |
| Nationality: | Yes | Yes | Yes |
| Previous Nationality (if any) | Yes | Yes | No |
| Permanent Address | Yes | Yes | No |
| Present Address | Yes | Yes | No |
| Alternate Present Address (If Any) | Yes | Yes | No |
| Personal e-mail Address | Yes | Yes | No |
| Official email address | Yes | Yes | Yes |
| T&T Phone Number | Yes | Yes | Yes |
| Mobile Number | Yes | Yes | Yes |
| Passport Number | Yes | Yes | No |
| Date of Issue | Yes | Yes | No |
| Place of Issue | Yes | Yes | No |
| Date of Expiry | Yes | Yes | No |
| Issuing Auth | Yes | Yes | No |
| Type of Passport | Yes | Yes | No |
| Reasons for Obtaining | Yes | Yes | No |
| Countries Visited (Add Additional Pages for More Information) | Yes | Yes | No |
| Language Skill (Except Bengali & English) | Yes | Yes | No |
| Father’s Name in Full | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Previous Nationality (if Any) | Yes | Yes | No |
| Date of Bangladeshi Citizenship and Authority (if Applicable) | Yes | Yes | No |
| Present Address with Contact Numbers | Yes | Yes | No |
| Present Age: | Yes | Yes | No |
| Father’s Occupation/Profession | Yes | Yes | No |
| Annual Average Income: | Yes | Yes | No |
| Mother’s Name in Full: | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Previous Nationality (if Any) | Yes | Yes | No |
| Date of Bangladeshi Citizenship and Authority (if Applicable) | Yes | Yes | No |
| Present Address with Contact Numbers | Yes | Yes | No |
| Present Age: | Yes | Yes | No |
| Mother’s Occupation/Profession | Yes | Yes | No |
| Annual Average Income: | Yes | Yes | No |
| Own Brothers and Sisters | Yes | Yes | No |
| Name in Full | Yes | Yes | No |
| Age | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Occupation | Yes | Yes | No |
| Present Address | Yes | Yes | No |
| Dependency(On You) | Yes | Yes | No |
| Position of Own within Brothers and Sisters | Yes | Yes | No |
| Marital Status | Yes | Yes | No |
| Date of Marriage | Yes | Yes | No |
| Authority (CORO Order) | Yes | Yes | No |
| Details of Spouse | Yes | Yes | No |
| NAME (IN BLOCK CAPITAL) | Yes | Yes | No |
| নাম (বাংলায়) | Yes | Yes | No |
| Date of Birth | Yes | Yes | No |
| Place of Birth | Yes | Yes | No |
| Birth Registration Number | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Previous Nationality (if any) | Yes | Yes | No |
| Authority of Bangladeshi Citizenship (If Applicable) | Yes | Yes | No |
| National ID Card Number | Yes | Yes | No |
| Educational Qualification | Yes | Yes | No |
| Occupation of Spouse | Yes | Yes | No |
| Details of Occupation | Yes | Yes | No |
| Particulars of Children (As per CORO Order) | Yes | Yes | No |
| Name of Childre | Yes | Yes | No |
| Sex | Yes | Yes | No |
| Date of Birth | Yes | Yes | No |
| Occupation | Yes | Yes | No |
| Present Address | Yes | Yes | No |
| Particulars of Chronic/Severe/xxxxxxxxxx Disease of Self/Spouse/Children (Add Additional Pages for More Information | Yes | Yes | No |
| Details of Father In-Laws | Yes | Yes | No |
| Name of Father-in-Law in full | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Previous Nationality (if Any) | Yes | Yes | No |
| Date of Bangladeshi Citizenship and Authority (if Applicable) | Yes | Yes | No |
| Present Address with Contact Numbers | Yes | Yes | No |
| Present Age | Yes | Yes | No |
| or Date of Decease | Yes | Yes | No |
| Father in Law’s Occupation/Profession | Yes | Yes | No |
| Annual Average Income | Yes | Yes | No |
| Details of Mother In-Laws | Yes | Yes | No |
| Name of Mother-in-Law in full | Yes | Yes | No |
| Nationality | Yes | Yes | No |
| Previous Nationality (if Any) | Yes | Yes | No |
| Date of Bangladeshi Citizenship and Authority (if Applicable) | Yes | Yes | No |
| Present Address with Contact Numbers | Yes | Yes | No |
| Present Age | Yes | Yes | No |
| or Date of Decease | Yes | Yes | No |
| Mother in Law’s Occupation/Profession | Yes | Yes | No |
| Annual Average Income | Yes | Yes | No |
| Near Relations in Defence Services (To Include Brothers, Sisters, First Cousins and Uncles of Both Husband and Wife) | Yes | Yes | No |
| Name and Address of all Brother and Sister-in-Laws | Yes | Yes | No |
| Name in Full | Yes | Yes | No |
| Address | Yes | Yes | No |
| Occupation | Yes | Yes | No |
| Details of Bank Accounts | Yes | Yes | No |
| Name of Bank: | Yes | Yes | No |
| Account Number: | Yes | Yes | No |
| Type of Account: | Yes | Yes | No |
| Educational Qualification(s) | Yes | Yes | Yes |
| Academic engagements | Yes | Yes | Yes |
| Administrative Engagements | Yes | Yes | Yes |
| Publications | Yes | Yes | Yes |
| Traingins | Yes | Yes | Yes |
| Course Conducted | Yes | Yes | Yes |
| Research Area | Yes | Yes | Yes |
| professional memberships | Yes | Yes | Yes |
| Awards | Yes | Yes | Yes |
| Pre Commission (Government/Non-Government) Service | Yes | Yes | No |
| Pre Commission Training: | Yes | Yes | No |
| Course at Academy: | Yes | Yes | No |
| Date of Joining at Academy: | Yes | Yes | No |
| Date of Commission: | Yes | Yes | No |
| Type of Commission: | Yes | Yes | No |
| Authority (Ministry of Defence letter/Gazette/Notification/CORO Order Number etc) | Yes | Yes | No |
| Ante Date Seniority: | Yes | Yes | No |
| Authority (Ministry of Defence letter/Gazette/Notification/CORO Order Number etc) | Yes | Yes | No |
| Date Granted Permanent Regular Commission in case of Originally Granted a Non-Regular Commission | Yes | Yes | No |
| Authority (Ministry of Defence letter/Gazette/Notification/CORO Order Number etc) | Yes | Yes | No |
| Date of Joining Bangladesh Army | Yes | Yes | No |
| Authority (Ministry of Defence letter/Gazette/Notification/CORO Order Number etc) | Yes | Yes | No |
| Arms/Services into which Originally Commissioned: | Yes | Yes | No |
| (Name of Arms/Services and Unit/ Regiment) | Yes | Yes | No |
| Name of Previous Arms/Service in case of change of Arms/Service | Yes | Yes | No |
| Post Commission Training (Home and Abroad). | Yes | Yes | No |
| Duration | Yes | Yes | No |
| Name and Location of Training | Yes | Yes | No |
| Establishment | Yes | Yes | No |
| Name of Course Attended | Yes | Yes | No |
| Qualification/Grading Obtained on Completion | Yes | Yes | No |
| Additional Qualification (If Any). | Yes | Yes | No |
| Qualification in Officers Standard/ Advanced Map Reading and Promotion Examinations | Yes | Yes | No |
| Name of Examination | Yes | Yes | No |
| Year of Passing | Yes | Yes | No |
| Officers Standard/Advanced Map Reading | Yes | Yes | No |
| Promotion Examination – Lieutenant to Captain | Yes | Yes | No |
| Promotion Examination –Captain to Major | Yes | Yes | No |
| Promotions and Held Appointments (Add Additional Pages for More Information) | Yes | Yes | No |
| Date | Yes | Yes | No |
| Type of Promotion | Yes | Yes | No |
| Rank | Yes | Yes | No |
| Any Retrospective effect | Yes | Yes | No |
| Notified in What Orders | Yes | Yes | No |
| BRIEF RECORD OF SERVICE IN CHRONOLOGICAL ORDER | Yes | Yes | No |
| Duration | Yes | Yes | No |
| Regimental and Command | Yes | Yes | No |
| Appointments | Yes | Yes | No |
| On the Staff Appointments | Yes | Yes | No |
| Instructional Appointments | Yes | Yes | No |
| PARTICULARS OF ACTIVIE SERVICE (WAR) | Yes | Yes | No |
| Duration | Yes | Yes | No |
| Name of Operation/War | Yes | Yes | No |
| Appointment held in Operation/War | Yes | Yes | No |
| Any Gallantry Award Received Authority (Gazette Notification/CORO Order | Yes | Yes | No |
| Non-Operational Awards | Yes | Yes | No |
| Description of Honors and Awards | Yes | Yes | No |
| Date and Year Granted | Yes | Yes | No |
| Brief details of Service for which awarded with auth (Gazette Notification/CORO Order etc) | Yes | Yes | No |
| Details of Breaking Military Law: | Yes | Yes | No |
| Details of Breaking Civil Law (If Applicable): | Yes | Yes | No |