**Software Requirement Engineering**

***CLO: 01 <Understanding>***

**Assignment:** 01

**Section:** A

**Group Members:**

|  |  |
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**FUNCTIONAL REQUIREMENTS**

**FR-01: SIGNUP**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-01-01** | If the user is not registered, then the system shall enable the user to sign up by entering a valid email and password. |
| **FR-01-02** | System will accept password having at least 2 special characters, 2 alphabets and 2 digits with upper limit of 8. |
| **FR-01-03** | The system shall inform the user if he/she entered any invalid field such as email address or password. |
| **FR-01-04** | The system shall notify the user that the account registration verification has been approved or rejected via a pop-up message. |
| **FR-01-05** | The system will enable the user to log in only after 0.2ms of registration. |

**FR-02: LOGIN**

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| **REQ NO** | **FUNCTIONAL REUIREMENTS** |
| **FR02-01** | The user shall be able to login into the system with a registered email address and password. |
| **FR-02-02** | The system shall authenticate the email and password. |
| **FR-02-03** | The system shall give an error within 0.1ms if an incorrect email or password is entered. |
| **FR-02-04** | Invalid attempt to access account will result in timer of 30s which will increase at upper limit of 24hr. |
| **FR-02-05** | The System will provide email redirect method in case of forgetting password. |

**FR-03: EVENTS:**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-03-01** | The system shall notify alumni about the upcoming events and gatherings of the university with location, date and time. |
| **FR-03-02** | The system shall notify alumni about the location, date and other details of the upcoming events. |
| **FR-03-03** | The system will only grant permission to the logged in users to view upcoming event. |
| **FR-03-04** | The system shall enable the alumni to register themselves for the upcoming events of the university. |

**FR-04: E-LIBRARY**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-04-01** | The system shall enable alumni to access all kinds of available books and article from e-library. |
| **FR-04-02** | The system shall enable the alumni to make personal annotations for more interactive learning experience. |
| **FR-04-03** | Alumni shall be able to download e-books and digital resources for offline access. |
| **FR-04-04** | The system shall offer personalized recommendations and suggestions based on the alumni’s reading history and preferences. |
| **FR-04-05** | Users shall be able to rate and review e-books and resources, allowing others to benefit from their feedback. |

**FR-05: SHARE LATEST JOB INFORMATION**

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| **REQ NO** | **FUNCTIONAL REQUIRMENTS** |
| **FR-05-01** | The system shall allow the alumni to post job opportunities and mentorship  for fellow alumni or students |

**FR-06: UPDATE ALUMNI PROFILE**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-06-01** | The system shall enable the users to update their personal details  including name, contact no and email address |
| **FR-06-02** | Alumni shall have control over the visibility of their updated information to share it publicly with specific group or keep it private. |

**FR-07: APPLY FOR ALUMNI CARD**

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| **REQ NO** | **FUNCTIONAL REQUIRMENTS** |
| **FR-07-01** | The user shall provide an online application form within the portal where the user can submit their request for an alumni identification card. |

**FR-08: PLACE COMPLAIN**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-08-01** | The system shall allow the user to place a complain about any issue |
| **FR-08-02** | The system shall remove the complain if the issue has been resolved |

**FR-09: NEWS AND UPDATES**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-09-01** | Alumni shall subscribe to newsletters and updates |
| **FR-09-02** | Section for posting news, updates and announcements relevant to alumni shall be available |

**FR-10: ADMIN PANEL**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-10-01** | A backend admin panel for managing user accounts including platform settings |
| **FR-10-02** | Analytics and statistical tools for tracking platform usage |

**FR-11: DISCUSSION FORUM**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-11-01** | Alumni shall participate in discussion forums to engage in professional or academic discussion |

**FR-12: FUNDRAISING REQUEST**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-12-01** | Alumni shall contribute to fundraising campaigns for the university |

**FR-13: LOGOUT**

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| **REQ NO** | **FUNCTIONAL REQUIREMENTS** |
| **FR-13-01** | The system shall allow the alumni to logout his/her account. |

**NON-FUNCTIONAL REQUIREMENTS**

**NFR-01: RELIABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-01-01** | System’s mean time to failure should not be more than 5s |
| **NFR-01-02** | System must successfully resume in case of any failure within 0.6ms |

**NFR-02: RESPONSE TIME**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-02-01** | Ensure that the pages load quickly with response time less than 0.5s |

**NFR-03: SECURITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-03-01** | System must provide access to only authorized persons or users |
| **NFR-03-02** | Data encryption to |

**NFR-04: AVAILABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-04-01** | System must be available and accessible to user for 23.8 hours |

**NFR-05: PORTABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-05-01** | The system shall be able to work across all platforms |

**NFR-06: USABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-06-01** | Help documentation must be complete in providing information about each and every module |
| **NFR-06-02** | System shall be user friendly |

**NFR-07: MAINTAINABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-07-01** | The system shall be easy to maintain and debug |

**NFR-08: BACKUP AND RECOVERY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-08-01** | The system should regularly back up data and have a robust data recovery plan in place to restore the portal in case of data loss or system failure. |

**NFR-09: SCALABILITY**

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| **REQ NO** | **NON-FUNCTIONAL REQUIREMENTS** |
| **NFR-09-01** | System shall handle increasing numbers of users |