**Title of the Project: Application program (Name: StudentBook) to help users collaborate on research and study.**

**Group Number: 07**

**Group Members:**

|  |  |
| --- | --- |
| **Student ID** | **Student Name** |
| 18101528 | Sheikh Sharia Afrin |
| 18101533 | Nusrat Zerin |
| 18301097 | Annay Paul |

# Functional Requirements:

For Students:

1. Should be able to log-in and view profile (own) information.
2. Should be provided with a search bar to search for peers, mentors, and topics.
3. Should be able to exchange texts with other members.
4. Should be able to see their schedule.
5. Should be provided with a panel for posting files, documents, hyperlinks and plain text.

For Faculties:

1. Should be able to log-in and view profile (own and those under mentorship).
2. Points 2 to 5 should be applicable for Faculties as well.
3. Should be able to access research works (completed and in progress) done by other Users.

For Researchers:

1. Should be able to search for topics and other users.
2. Should be provided with posting options as well
3. Should be given a special rating based on successfully completed researches and their quality.

# Non-Functional Requirements:

Operational:

1. Desktop version of the application should be able to run in various major Operating Systems (Windows, Macintosh, Linux, Android, IOS).
2. The Web application should support major browsers (Chrome, Firefox, Opera, Edge etc).
3. Log in and user specific information transmitted over the server should be encrypted.
4. Must interface with a DBMS.
5. Must interface with schedule management system.
6. Behavior and conducts, while communication with other users can be reported in case of offense.

Performance:

1. Every search and edit operation must be fulfilled within 1 second.
2. Uploading large files should be supported and time should not scale based on size for the purpose.
3. Standard uploading sizes (For Text, Document, PDF files 64Mb, Image files 24Mb) must be executed within 5 seconds of upload time.
4. Should be able to support concurrent user (large number of users at a specific time) access and validity of real-time data.

Security:

1. User information and data must be encrypted and can only be accessed by Database Admin.
2. User specific information should be visible to the specified user only.
3. User authentication would be made under a 2-step verification process.
4. Account creation should be authorized via a central id (example: Student id) associated with the University or any other verified institution.

Cultural and Political:

1. The program license and terms obeys all forms of legal rights issued against plagiarism, data-mining and unethical hacking.
2. The program is in agreement with every aspect of civil suit and legal issues along with rules and regulations imposed by the institutes that will use this program.