



**SOF3650U – Software Design and Architecture**

**Group 26**

**Project Title: University Database Management System**

**Group Member 1**

**Name: Abdul Bhutta**

**Student ID: 100785884**

**Group Member 2**

**Name: Adam Tharani**

**Student ID: 100637702**

**Group Member 3**

**Name: Brenden Muldowney**

**Student ID: 100707148**

**Group Member 4**

**Name: Milan Saju Samuel**

**Student ID: 100757350**

## **Functional Requirements**

- R1. The system shall allow new students to be registered to the university**
- R2. The system shall allow new professors to be registered**
- R3. The system shall allow to add, edit, and delete courses.**
- R4. The system shall allow users to login with specific credentials**
- R5. The system shall allow administrators to override and register a student to a course that is full.**
- R6. The system shall allow a student to view their schedule**
- R7. The system shall allow to view all courses taken at the university by a particular student.**
- R8. The system shall allow the courses to be taken once the prerequisites are met.**
- R9. The system shall have different permissions for each user.**
- R10. The system only allows the administrator to add the grades of a student to the database.**
- R11. The system shall allow the professors to view students' personal information**
- R12. The system shall allow administrator to register a professor for each course.**

## **Non-functional Requirements**

- R1 – The system shall perform searches fast and efficient**
- R2 – The system shall update the database within 5 seconds for all users.**
- R3- The system shall run on Windows 10 or higher.**
- R4 – The system shall be user-friendly.**
- R5 – The system shall record all un-successful login.**