Functional Requirements For Admin Module:

1. Admin Dashboard
Priority = High

1.1 The system must provide a centralized dashboard for admins to oversee all degree issuance activities.

1.2 The system must enable admins to view a comprehensive view of all degree issuance activities upon logging in.

1.3 The system must allow admins to select and be redirected to a detailed view of specific tasks.

2. Token Generation for Student Requests & Complaints
Priority = High

2.1 The system must automatically generate a unique token for each new student request or complaint.

2.2 The system must notify the student and display the request/complaint on the admin's dashboard when a token is generated.

3. Manage Student Requests
Priority = High

3.1 The system must allow admins to view and filter all pending, processed, and new requests.

3.2 The system must present all relevant information and actions/responses to be taken on selected requests for detailed viewing.

4. Manage Student Complaints
Priority = High

4.1 The system must enable admins to view all student complaints and respond via comments or perform actions accordingly.

5. Generate and Issue Degree Certificate

Priority = High

5.1 The system must generate a digital degree certificate and send it to the student once the admin selects the student for degree issuance.

5.2 The system must update the student's status and allow the admin to close the request when a degree is generated.

6. Generate and Issue Student Transcript

Priority = High

6.1 The system must compile all academic records into a transcript format for issuing to a student upon admin initiation.

6.2 The system must mark the transcript request as processed and send it to the student.

7. Student Academic Record Access

Priority = Medium

7.1 The system must allow admins to search and view all academic records of a student by ID.

7.2 The system must update any academic records upon admin edits and integrate changes with the generated degree.

8. Objection Alerts

Priority = Medium

8.1 The system must allow admins to receive and view objections to degree issuance from FYP or Finance Department.

8.2 The system must send an alert to the student regarding any objections once the admin informs them.

9. Student Profile Verification

Priority = Medium

9.1 The system must automatically check the student's academic and financial records for eligibility upon admin initiation of the verification process.

9.2 The system must notify admin about student's eligibility and allow them to continue with degree issuance.

10. Batch Processing
Priority = Low

10.1 The system must enable admins to select multiple requests for batch processing.

10.2 The system must apply batch actions (approve, issue, close, etc.) to all selected requests simultaneously.

11. Reporting and Analytics
Priority = Low

11.1 The system must provide options to generate reports on degree issuance, transcript requests, student queries, etc.

11.2 The system must display real-time current data when a report is generated.

Non Functional Requirements for Admin Module:

1. Performance
Priority = High

1.1 The system must load the admin dashboard within 2 seconds under standard operating conditions.

1.2 The system must generate and display unique tokens for student requests and complaints instantly upon submission.

2. Usability
Priority = High

2.1 The system must provide an intuitive interface for the admin dashboard, allowing admins to easily navigate through various degree issuance activities.

2.2 The system must offer a user-friendly way for admins to filter and manage student requests and complaints.

3. Reliability

Priority = High

3,1 The system must have an uptime of 99.9%, ensuring consistent availability for admins to perform their tasks.

3.2 The system must ensure that the degree and transcript generation process is error-free.

4. Notification and Alert System

Priority = High

4.1 The system must ensure the delivery of notifications and alerts to admins and students with minimal latency.

4.2 The system's notification mechanism must support batch processing and be able to handle high volumes of messages during peak times.

5. Scalability

Priority = Low

5.1 The system must be able to handle the addition of up to 10,000 new student records without degradation of performance.

5.2 The system must support concurrent use by at least 100 admins without performance loss.

6. Security

Priority = Low

6.1 The system must enforce strong password policies for admin accounts to prevent unauthorized access.

6.2 The system must use secure protocols (like HTTPS) for all transactions involving sensitive data.

7. Maintainability

Priority = Low

7.1 The system code must adhere to industry-standard coding practices to ensure maintainability.

7.2 The system must be designed to facilitate easy updates and integration with other university systems.

8. Compliance

Priority = Low

8.1 The system must maintain audit trails for all actions taken by admins for compliance and reporting purposes.

Functional Requirements for Students:

1. Submit Degree Issuance Form:

   - The system shall allow students to fill out and submit a degree issuance form online, providing necessary details such as personal information, program details, and any additional required documents. (Priority: High)

2. Complaint Form:

   - The system shall provide students with the option to submit a complaint form regarding any errors or discrepancies in their degree issuance process, such as spelling mistakes or inaccuracies. (Priority: High)

3. Activity Tracking:

   - The system shall enable students to track the progress of their degree issuance request through various stages, including pending status, processing status by the One Stop Admin, and any updates from the FYP and Finance departments. (Priority: Medium)

Non-Functional Requirements for Students:

1. Usability:

   - The system interface shall be designed to be user-friendly, intuitive, and easy to navigate for students. (Priority: High)

2. Security:

   - The system shall ensure the security and privacy of students' personal and academic information, implementing measures such as access controls, encryption, etc. (Priority: Medium)

3. Reliability:

   - The system shall be available and responsive at all times, with minimal downtime or service disruptions, ensuring students can submit their requests and track their progress without interruptions. (Priority: Low)

Functional Requirements for FYP Department:

1. Student Notification for Degree Issuance:

   - The system shall notify the FYP department when students submit degree issuance requests, providing access to the necessary documents and information. (Priority: High)

2. Provide Decision:

   - The system shall enable the FYP department to review each degree issuance request and provide a decision, whether to accept, reject, or raise objections, accompanied by comments if necessary. (Priority: High)

3. Time Tracking:

   - The system shall automatically track the time taken by the FYP department to process each degree issuance request. (Priority: Low)

Non-Functional Requirements for FYP Department:

1. Efficiency:

   - The system shall facilitate quick and efficient review of requests by the FYP department to ensure timely responses to students.

     (Priority: High)

2. Scalability:

   - The system shall be designed to be scalable to accommodate an increasing number of degree issuance requests over time, without compromising performance or response times. (Priority: Low)

Functional Requirements For Finance Department Module:

➔ Log In:
   - The system shall authenticate finance accountants using a basic username and password login method.
   - The system shall provide a user-friendly login interface for easy access.
➔ Access and Verify Financial Records:
   - The system shall feature a user-friendly interface for finance accountants to navigate and verify student financial records.
   - The system shall enable finance accountants to check course and degree fee payments along with any remaining dues.
   - The system shall allow finance accountants to update student eligibility for degree issuance based on financial records.
➔ Add Comments for Students:
   - The system shall provide a communication tool for finance accountants to add comments explaining financial issues to students.

♦ The system shall ensure transparency by allowing students to easily view comments left by finance accountants regarding their financial status.

Functional Requirements For Director Supervision Module:

➔ Monitor Degree Requests:
♦ The system shall create a dashboard displaying the number and status of degree requests for campus directors.
♦ The system shall include a feature to track the processing time of degree requests by finance accountants.
➔ View Requests and Activity:
♦ The system shall maintain an activity log of all degree requests made throughout the day.
♦ The system shall integrate with email platforms, enabling directors to view and respond to notifications directly from their email.

Non-Functional Requirements For Finance Department Module:

● Fast Search: The system shall provide a fast and efficient search function for student records.
● Clear Interface: The system shall have a clear and intuitive interface for updating financial records and student statuses.

Non-Functional Requirements For Director Associated Module:

● Speed: The system shall respond promptly to director requests.
● Reliability: The system shall maintain high availability and reliability.
● Security: The system shall implement basic security measures to safeguard student data.