

# Product Backlog – Phase 1 (Facilities Module)

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## 1 — Classroom & Laboratory Management

### US 1.1 – View Room Availability

Priority: Must Have

Story Points: 5

Planned Sprint: 1

As a student/professor, I want to view available classrooms/labs so that I can find a free room.

Acceptance Criteria:

- Given I'm logged in as a student or professor
- When I navigate to 'Rooms' page
- Then I see all rooms availability in real-time

### US 1.2 – Filter Rooms by Capacity / Equipment

Priority: Should Have

Story Points: 3

Planned Sprint: 2

As a professor/student, I want to filter rooms/labs so I can pick one that fits what I am looking for.

Acceptance Criteria:

- Given I'm logged in as a professor/student
- When I filter rooms/labs with capacity/equipment
- Then only matching rooms with filter are shown

### US 1.3 – Manage Classroom / Lab Records

Priority: Must Have

Story Points: 5

Planned Sprint: 1

As an admin, I want to create, edit, and delete classroom/lab records so that room data used for booking is accurate and up to date.

Acceptance Criteria:

- Given that I am logged in as admin

- When I create classroom/lab I am asked to enter the basic fields (name, type, capacity, location)
- I can edit type and capacity of existing rooms
- When I try to delete a room system should verify it has no future bookings first

### **US 1.4 – Book a Classroom/Lab**

Priority: must have

Story Points: 8

Planned Sprint: 2

As a professor/staff, I want to book a room so I can schedule classes/events.

Acceptance Criteria:

- Given that I'm logged in as a professor/staff
- When I book a room
- Then booking should go through only if available is available ,an email confirmation should be sent ,and Reservation should be visible

### **US 1.5 – Cancel/Edit a Booking**

Priority: Should Have

Story Points: 5

Planned Sprint: 2

As a professor/staff, I want to edit/cancel my booking.

Acceptance Criteria:

- Given I'm logged in as a professor/staff and have made a reservation
- When I modify or cancel reservation
- Then updated reservation shown if possible with room capacity and equipment

### **US 1.6 – Report Maintenance Issue**

Priority: Must Have

Story Points: 5

Planned Sprint: 1

As a student/professor/staff, I want to report maintenance issues, so that they could be resolved by a responsible staff.

Acceptance Criteria:

- Given that I'm logged in as student/staff/professor

- When I create a ticket for maintenance issue and submit it
- Then responsible staff should be notified

### **US 1.7 – Maintenance Ticket Tracking**

Priority: Could Have

Story Points: 3

Planned Sprint: 3

As a student/professor/staff, I want to track ticket progress.

Acceptance Criteria:

- Given that I'm logged in as student/staff/professor and have a ticket submitted
- When I check ticket status
- Then I should see status: Pending / In Progress / Resolved

## **2 — Administrative Office Automation**

### **US 2.1 – Log Student Records**

Priority: Must Have

Story Points: 8

Planned Sprint: 2

As an admin, I want log student records, so that students could be managed.

Acceptance Criteria:

- Given that I'm logged in as admin
- When I Create/Edit/Delete records
- Then database is updated and secure with Admin-only access

### **US 2.2 – Student Request Transcript**

Priority: Must Have

Story Points: 5

Planned Sprint: 2

As a Student, I want to request transcript, so that I can have my data when needed for other matters.

Acceptance Criteria:

- Given that I'm logged in as student
- When I request a transcript
- Then request should be sent to Administration.

### **US 2.3 – Student Request Transcript status**

Priority: Should Have

Story Points: 3

Planned Sprint: 3

As a Student, I want to view my transcript request status.

Acceptance Criteria:

- Given that I'm logged in as student and have requested a transcript
- When I view request progress
- Then I should be able to track progress in real time (in progress, ready for pick-up).

### **US 2.4 – Generate Student Transcript**

Priority: Must Have

Story Points: 5

Planned Sprint: 2

As an admin, I want to generate transcripts, so that student receives requested transcript

Acceptance Criteria:

- Given that I'm logged in as admin and there is a requested transcript
- When I approve request of student, their data should be collected
- Then PDF generated with correct data and request is closed.

### **US 2.5 – Admission Application Management**

Priority: Should Have

Story Points: 3

Planned Sprint: 3

As an admin, I want to manage applications , so that I can admit students.

Acceptance Criteria:

- Given that I'm logged in as admin
- When admission application is available
- Then I should be able to view data and update Status: Submitted/Under Review/Accepted

## 3 — Resource Allocation

### US 3.1 – View Available Equipment

Priority: Should Have

Story Points: 3

Planned Sprint: 2

As staff/professor, I want to view available equipment, so I can check availability according to my needs.

Acceptance Criteria:

- Given that I'm logged in as staff/professor
- When I search up for specific equipment
- Then I should be able to view available equipment of that specific equipment available to specific professor/staff department.

### US 3.2 – Allocate Equipment

Priority: Must Have

Story Points: 8

Planned Sprint: 3

As an admin, I want to allocate equipment.

Acceptance Criteria:

- Given I'm logged in as admin
- When I allocate available equipment to specific staff/department
- Then its assigned available to staff/department

### US 3.3 – Track Software Licenses

Priority: Should Have

Story Points: 5

Planned Sprint: 3

- As IT admin, I want to track licenses of available softwares, so I can keep track of near ending licenses and total expenses.

Acceptance Criteria:

- Given that I'm logged in as an admin.
- When I view software licenses
- Then it shows total expenses and warnings of near ending licenses.

### US 3.4 – Equipment Return Process

Priority: Could Have

Story Points: 3

Planned Sprint: 3

As staff, I want to return equipment.

Acceptance Criteria:

- Given that I'm logged in as staff
- When I press 'return' on available and not in use equipment
- Then equipment should be marked as returned, be removed from available equipment and database

## 4 — Overall System

### US 4.1 – User Authentication (Login)

Priority: Must Have

Story Points: 8

Planned Sprint: 1

- As a user, I want to log in based on my role, so that I can use services available to me based on my role.

Acceptance Criteria:

- Given I'm logged in as student/admin/staff/professor
- When I login
- Then system should give me access to available services based on my role

### US 4.2 – Notification System

Priority: Should Have

Story Points: 5

Planned Sprint: 3

As a user, I want email alerts.

Acceptance Criteria:

- Given I'm logged in as student/admin/staff/professor
- When there is an important announcement that concerns my role
- Then I should receive a notification