

1-Identifying user and system interface:

The selected use cases:

1. Create Qr code to record attendance (student)
2. Create attendance session (faculty member)
3. View real time attendance (faculty member)
4. Generate at risk students report(academic affairs)
5. Push data to FMS (system)

Use case	Required User Interfaces	Interface Description/Purpose
Record Attendance VIA QR Code	Camera turned to so the students scan the QR	The teacher start session the QR code appears on screen the student scan it .
	Attendance Confirmation Pop-up	A temporary message displayed to the student, confirming the success of the attendance record ("Attendance Recorded").
Create attendance session	Course Selector Interface (Faculty)	The instructor select the course and time before click start session
	"Start Session" Button	After clicking start session unique QR is generated with time limited
View real time attendance	Live Session Dashboard	The Faculty interface that displays a live-updating list of students and shows their status as "Present" or "Absent".

Generate at risk students report	Report Parameter Form	The academic affairs filter and search for students with low attendance rate.
	Report Visualization/Display Page	The system displays the names and ID of students with low attendance rate.
Push data to FMS	System Status/Log Interface (Admin UI)	A control panel for system managers to check if attendance data was sent successfully to the FMS, review any error messages, and manually retry sending failed data.

Use Case	Required System Interfaces	Interface Description/Purpose
Record Attendance VIA QR Code	System verifies the location	The system check the location of the student and the lect hall and make sure the gps /location is turned on.
Create Attendance Session	Session Database Connection	The connection layer used to create and initialize the new Attendance Session record, storing course and time data.
View Real-time Attendance	Attendance Database Connection	Used for querying and continuously streaming the live attendance and enrollment data back to the Faculty's dashboard.

Generate At-Risk Student Report	Attendance & Enrollment Database Connection	Used to query and join data from both the attendance records and the student enrollment tables to calculate final attendance percentages for the report.
	PDF Generation Service	A system component responsible for formatting the report data into a standardized PDF document for official use
Push Data to FMS		The critical external system interface used by EduTrack to call the FMS system's service to update centralized student data.

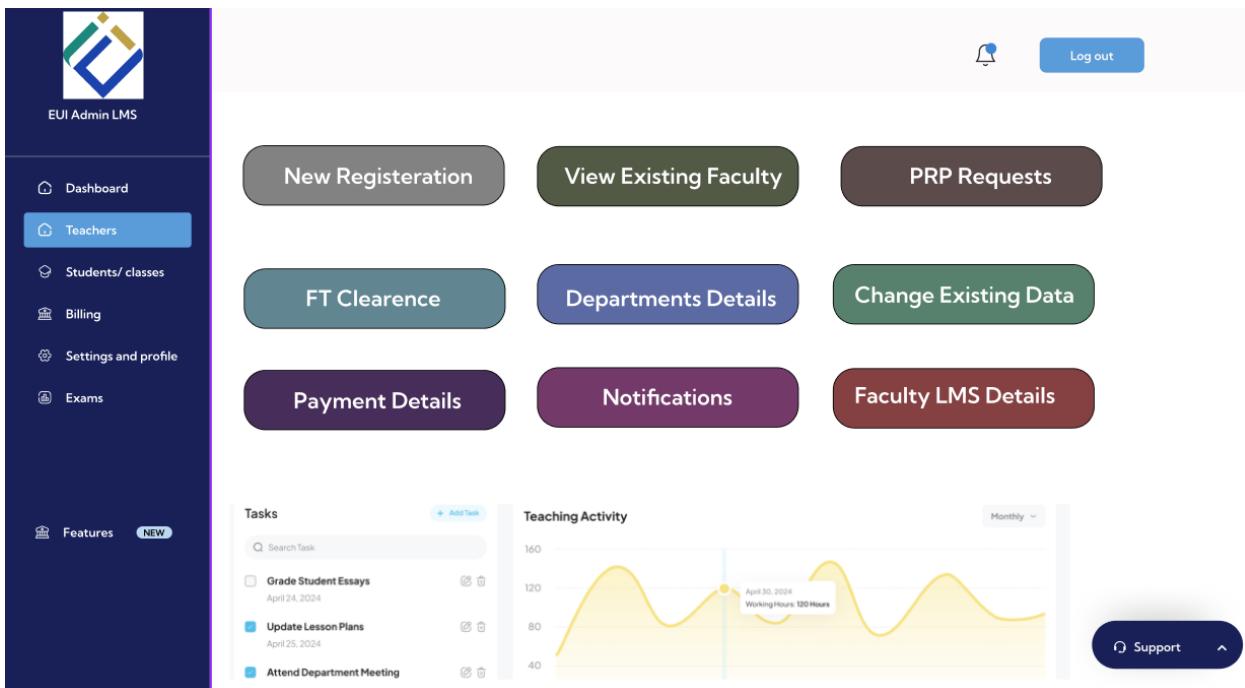
2- (a)Menu design

<u>Menu Category</u>	<u>User role</u>	<u>Use Cases</u>	<u>Grouping Rationale</u>
Attendance	Student	Record Attendance via QR Record Attendance via Fingerprint	High-frequency tasks performed by students during each lecture
Session Management	Instructor	Create Attendance Session View Real-time Attendance	Tasks related to managing and monitoring lecture sessions
Records Management	Instructor	Correct Attendance Record	Administrative tasks involving modification of attendance data
Reports & Integration	Academic Affairs / Admin	Generate Attendance Reports Push Data to FMS	Low-frequency but critical reporting and

			external system integration tasks
Dashboard	All Users	View system summary	Provides quick access and overview after login

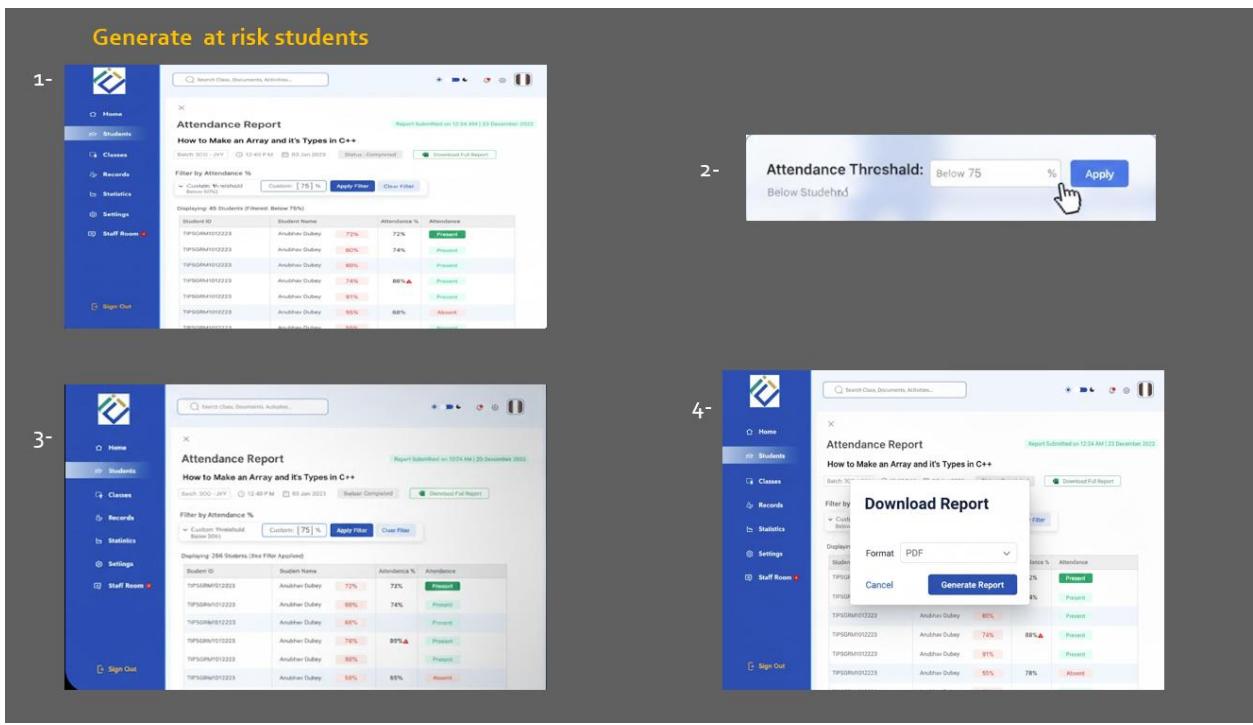
2(b)Menu Hierarchy and Navigation Structure

X illustrates the hierarchical menu design of the EduTrack Attendance Management System. The menu follows a role-based and task-oriented structure to ensure simplicity and ease of navigation.



3-storyboards

We did Storyboard and the dialog between the user and system in a ppt and this is an example of how we did it.



That is the dialog for this storyboard

User: Opens attendance list

System: Displays attendance data

User: Sets attendance threshold (below 75% or 60%)

User: Clicks Apply

System: Filters and displays at-risk students

User: Reviews filtered list

User: Clicks Download Report

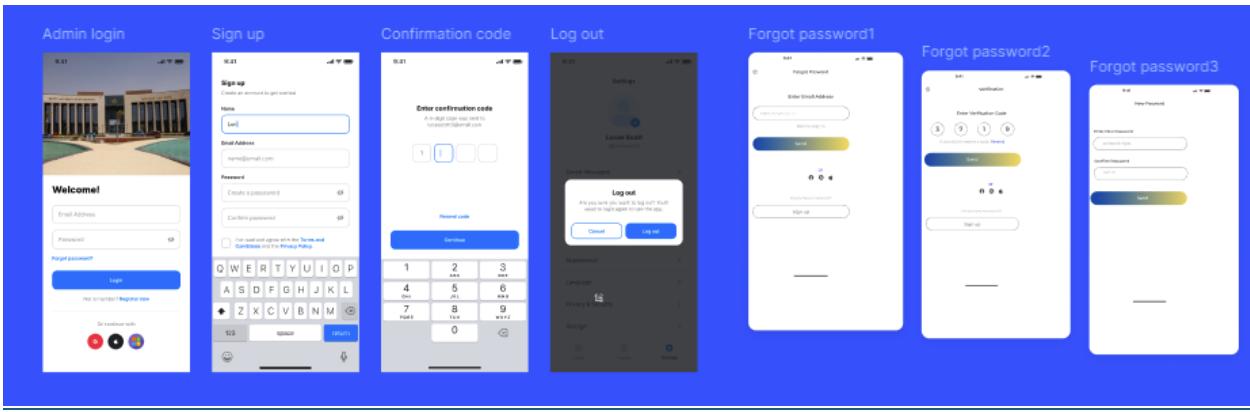
System: Shows report format options

User: Selects PDF and confirms

System: Generates and downloads the at risk students report

4-Figma design

Just a sample for the log in to Edu track.



<https://www.figma.com/design/KtrGlYKSFvB13slSlnzfkY/Mobile-Apps-%E2%80%93-Prototyping-Kit--Community--?node-id=193-3231&p=f&t=UdYnXDvOIER2V9W1-0>