

# App Based LMS with Facial Recognition Attendance

**Project Report**



**Submitted by**

**Muhammad Umar**  
{01-235172-042}

**Abdullah Babar**  
{01-235172-003}

**Supervisor**  
**Ms Alyia Amir**

**Department of Computer Science,**



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# Chapter 1

## Introduction

We are proposing to introduce a unique form of LMS for our academic institutes during the Covid-19 pandemic when all fields of life are shifting to cyberspace as it is efficient and reliable. This LMS app will be installed onto our phone and thus will be always in our reach. Furthermore, online LMS is environment friendly as it saves university resources such as electricity and paper.

Our aim is to provide secure means of taking attendance via facial recognition. LMS can be used for content delivery, course outline, assignments, quizzes and taking exams. The users can keep track of their daily progress and teachers can easily monitor the performance of their students. It allows teachers to upload all kind of resources which are easily accessible for students and only an authorized person with allotted credentials can access these resources.

### 1.1 Objectives

- Create an Android app installed on smartphone.
- Students need to just log in once.
- App will automatically recognize face of students and mark attendance.
- Send email to students whenever a quiz/assignment is uploaded.

### 1.2 Problem Description

Although LMS has been introduced and implemented before, they were web based and needed a browser to be accessed which was not feasible. Our LMS will be an app installed on the phones of all users so that they can access it whenever they want without having to open the browser. The second issue is the fact that you have log in every time you go to the portal and once, you are logged in and you forget to log out or close the browser your data is at risk because laptops and especially desktop computers are mostly shared by other people whereas your phone is personal and always with you. Moreover, the app will be logged in as default, but you can always log out if you want.

Since the arrival of online teaching, the biggest issue is the use of unfair means of taking advantage of remotely attending classes in the comfort of their home. The best way to describe this is attendance. Students always try to trick the teacher and pretend to be other class fellows during attendance. This is a big problem during online classes as lectures are