



# Smart Attendance Management System (SAMS)

Graduaion Presentaion (2021-2022)

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### Outline

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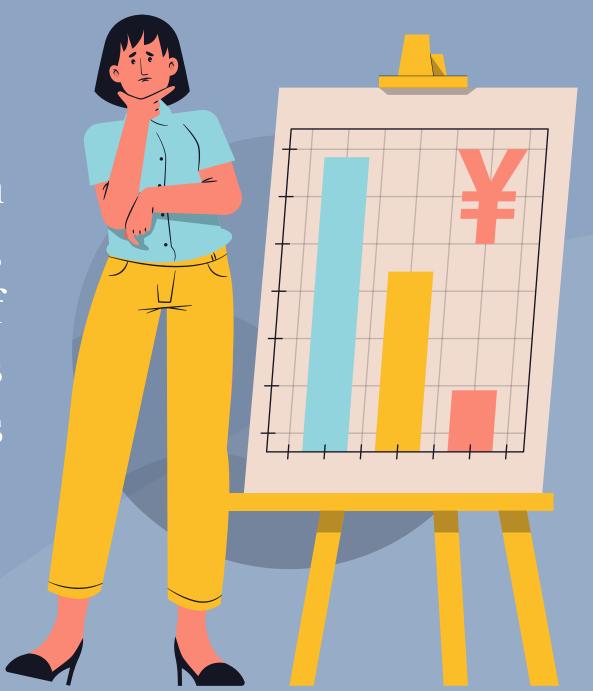
Testing

Conclusion

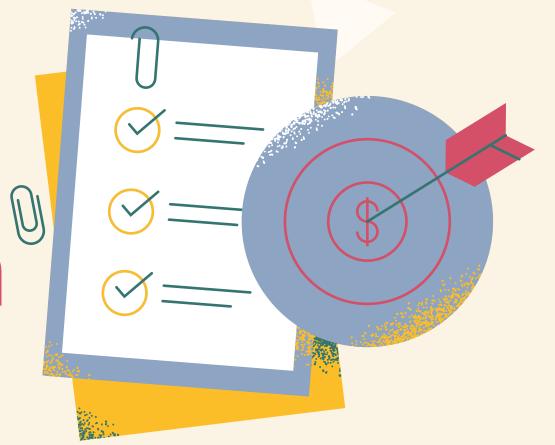
#### Inroduction

The modern educational environments require building an integrated system for provisioning of educational resources, as The Saudi Vision 2030 recommends the development of educational systems by applying new technologies, this is where attendance comes with artificial intelligence to plays role in performing the basic daily tasks automatically.

"The goal is not to force the student to attend, but rather to ensure the presence of students and their acquisition of the rich knowledge for their own good and to build the country"







SAMS was created for the university

The project design for ios based system and android-based system

SAMS should be enrolled the student in the courses automatically

The students must have a smartphone device during the class





The application should be used in university

Instructors can manage attendance using computerized data managnment

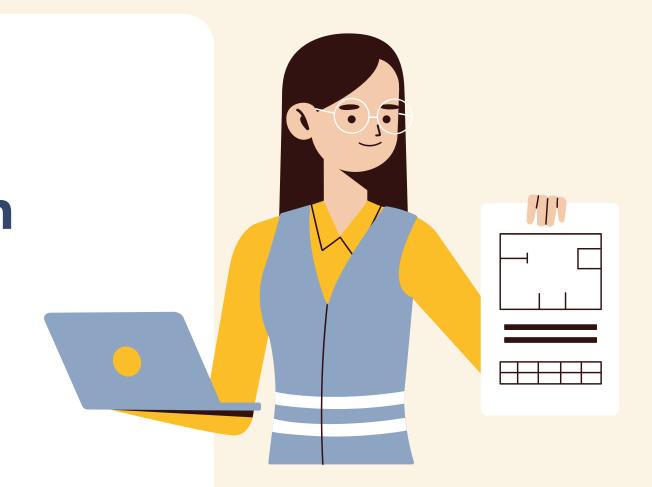
Attendance will be recorded by biometric authentication and student's location

## Proposed System

The proposed system is an application to calculate attendance based on:



The location of student.

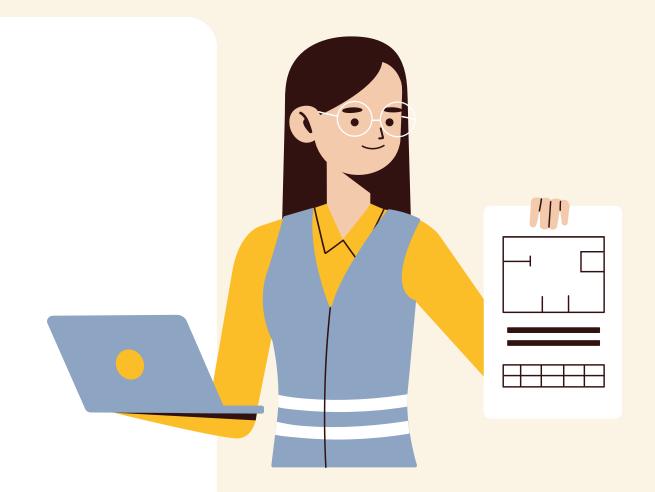


## Proposed System

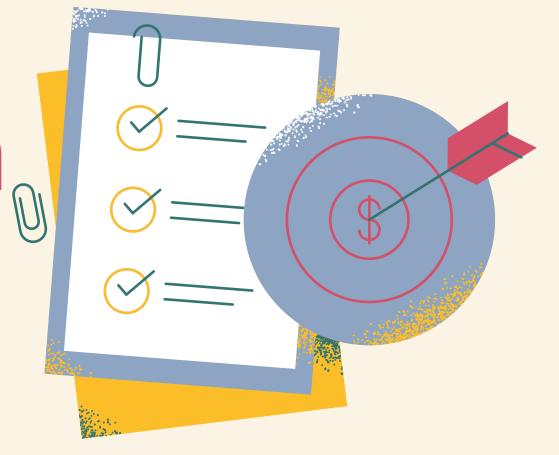
- Take attendance using face ID:
  - Firebase ML model.
  - MobileFaceNet model.

Take attendance using Fingerprint.

Location of student.



# Implementation (method)



Started with common and instructors' interface after that worked in students interface.

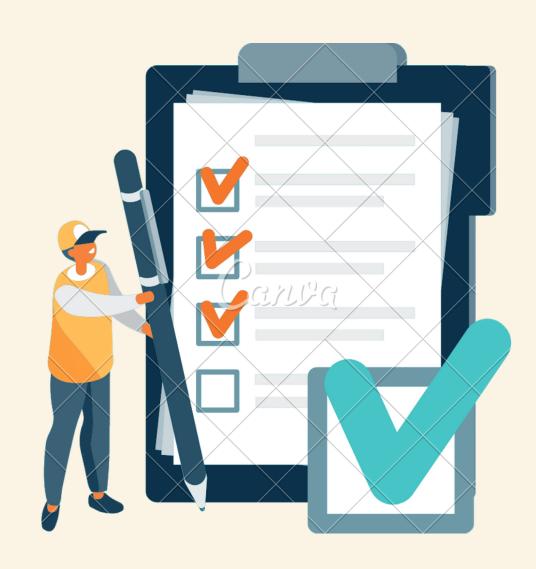
Flutter and Tensorflow Lite with face recognition.

Flutter with authenticate via fingerprint.

#### Demo

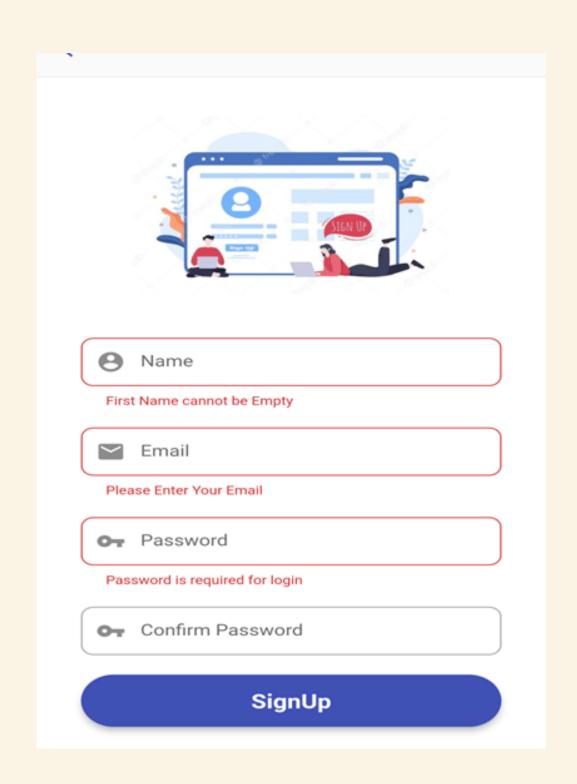


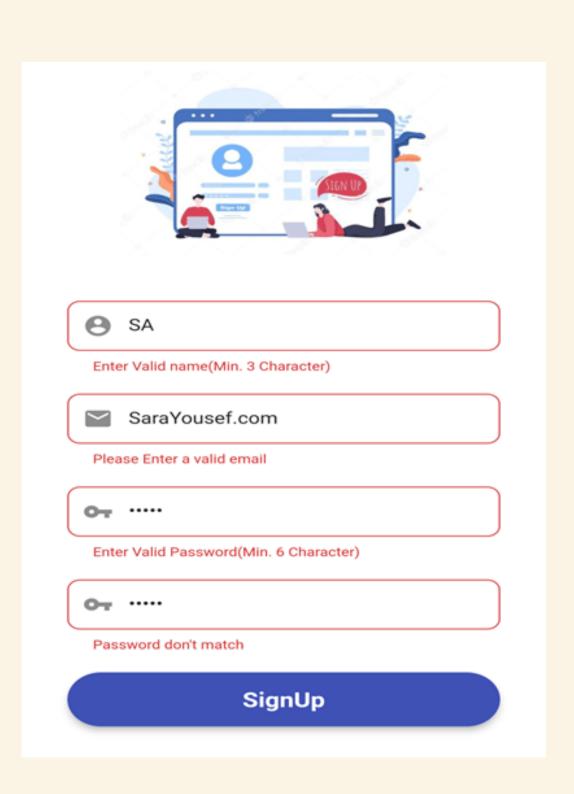
# Testing



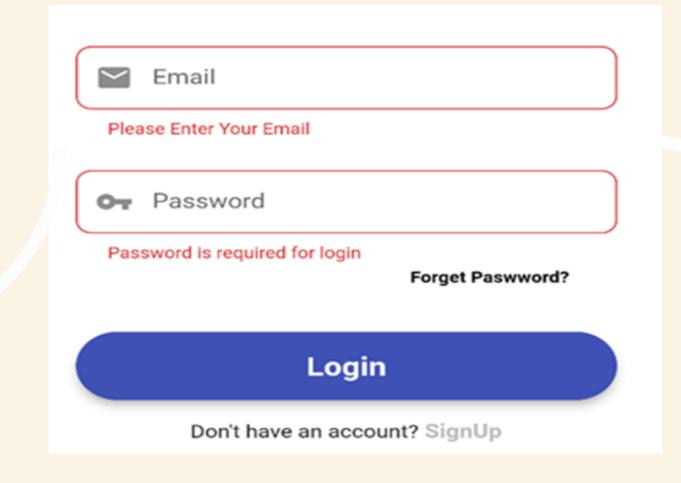
#### Components Testing

#### Sign Up





#### Log In



User with this email doesn't exist.

Your password is wrong

#### Face and fingerprint interfaces Section information interface

Your location not matched..You are absent!

Conflict with other class!

#### Instructor and Student home interface

There is no classes started now

#### Integration Testing

#### Combine different units of the SAMS

- Instructor account
- Student account

#### Security Testing

**Password** 

Face ID

Fingerprint

#### Conclusion

Findings and Contribution

We found that the Face ID, fingerprint, and location are the most appropriate technology

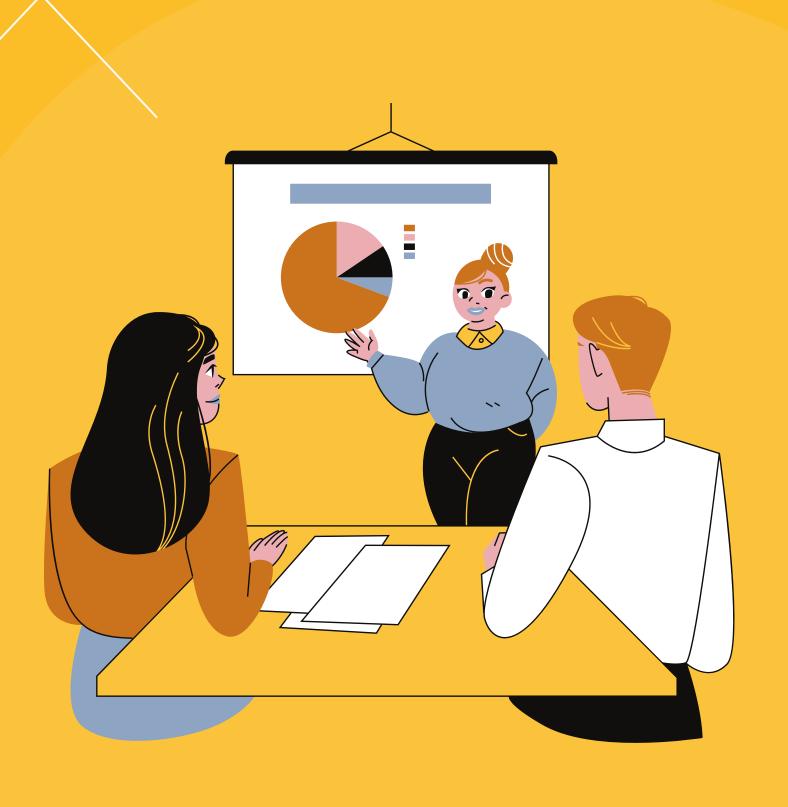
Lessons Learned

General and technical skills and tools

Recommendation for Future Works

Improve the service of the smart attendance management system and connected with people soft





## Thank you!

Do you have any questions?