

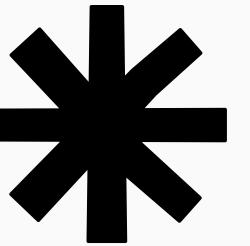


# MARK ME

QR Attendance App

Presented by Team Raghav

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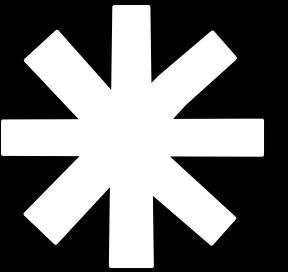


# INTRODUCTION

Mark Me is a mobile app that simplifies attendance using QR codes. Built with Flutter and Firebase, it allows admins to generate session-based QR codes which students scan to mark their attendance. The app ensures accuracy, prevents proxy attendance



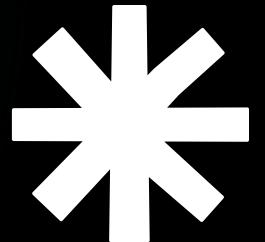
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# OBJECTIVES

- ✓ Automate attendance process
- ✓ Prevent proxy entries
- ✓ Simple user interface
- ✓ Real-time cloud storage
- ✓ Efficient record management

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# TECHNOLOGY STACK



## ✓ Frontend

- Flutter (Dart)

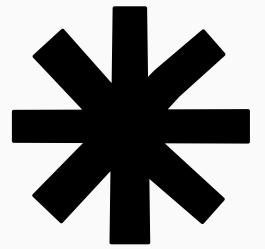
## ✓ Backend

- Firebase Firestore
- Firebase Auth

## ✓ Packages

- qr\_flutter,
- qr\_code\_scanner,
- firebase\_core

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# FEATURES OVERVIEW



Mark Me includes secure student login, QR code generation, real-time scanning, and cloud-based attendance storage. Built with Flutter and Firebase, the app offers a smooth and reliable user experience for both students and administrators.

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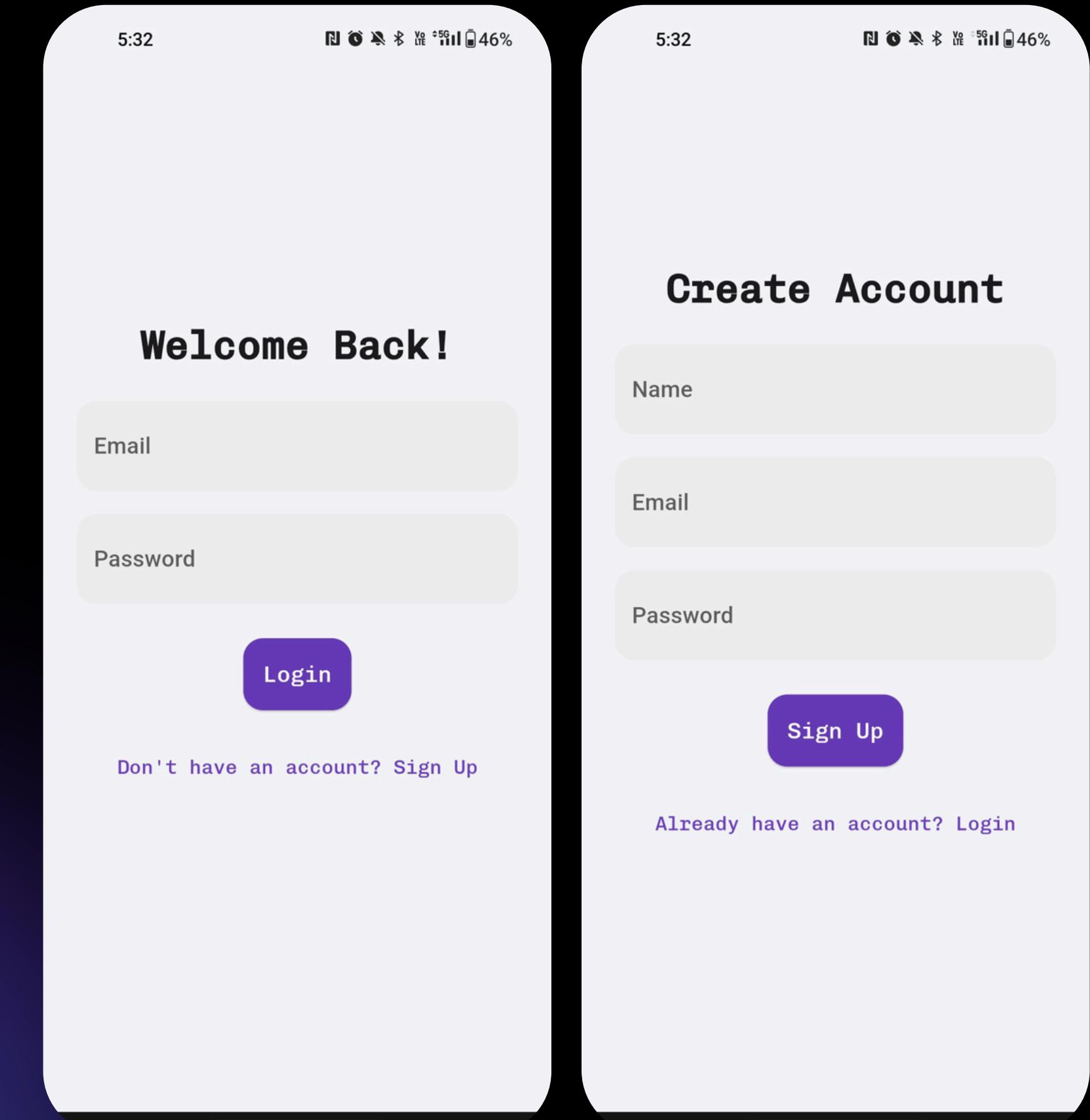
# LOGIN & SIGN UP SCREENS

## ✓ Secure Authentication

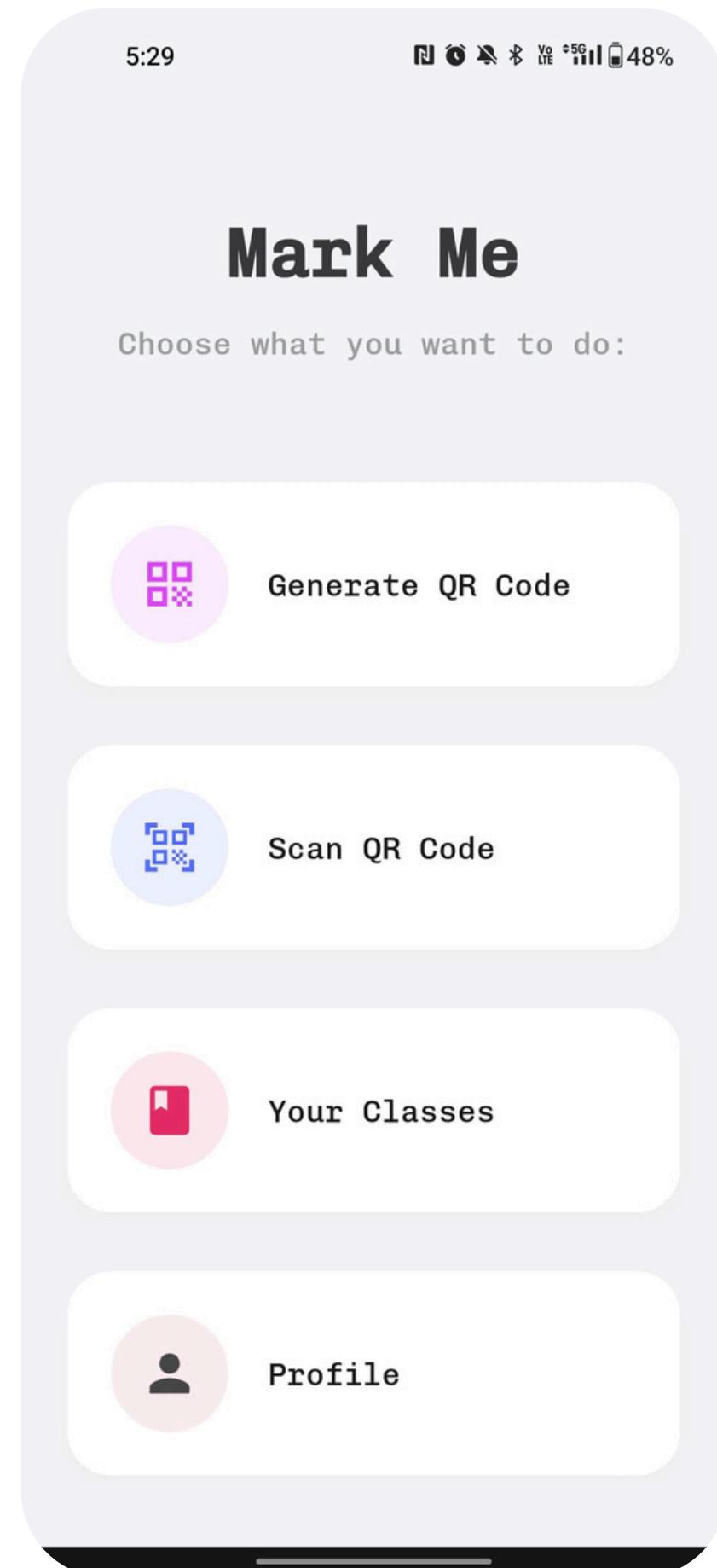
Users log in using email and password, managed through Firebase Authentication, ensuring secure access and user verification.

## ✓ Firebase Backend

All user data and sessions are handled securely through Firebase, allowing seamless integration between login, database, and user access control.



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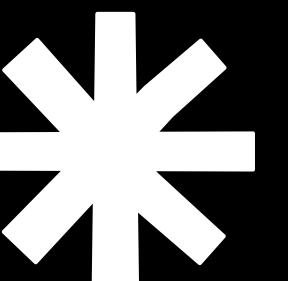
# HOME SCREENS

- Clean and minimal interface for easy navigation
- Four main options: Generate QR, Scan QR, Your Classes, Profile
- Icons and colors help differentiate each feature
- Designed for both students and admins
- Focused on quick access to core functionality

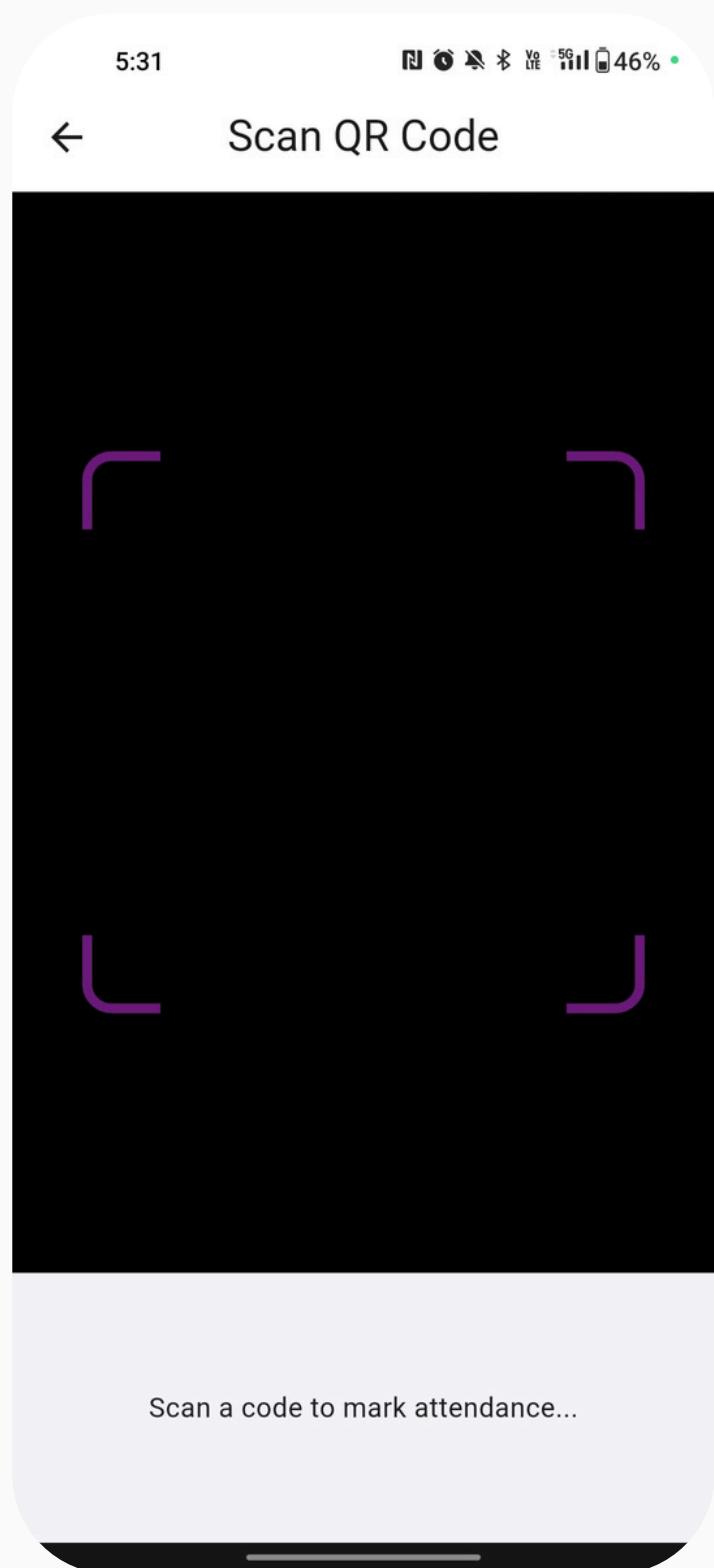
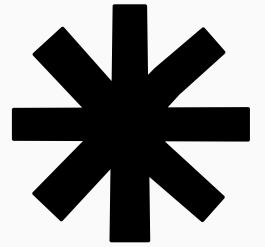
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# GENERATE QR SCREEN

- This screen allows admins to create a unique QR code for each attendance session. The QR contains session-specific data and is displayed instantly for students to scan. It's built using the qr\_flutter package for smooth and reliable QR generation.



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# SCAN QR SCREEN

- The Scan QR screen enables students to scan the session QR code using their device's camera. It captures the encoded session data and redirects the user to the attendance form. The feature is implemented using the `qr_code_scanner` package for fast and accurate scanning.

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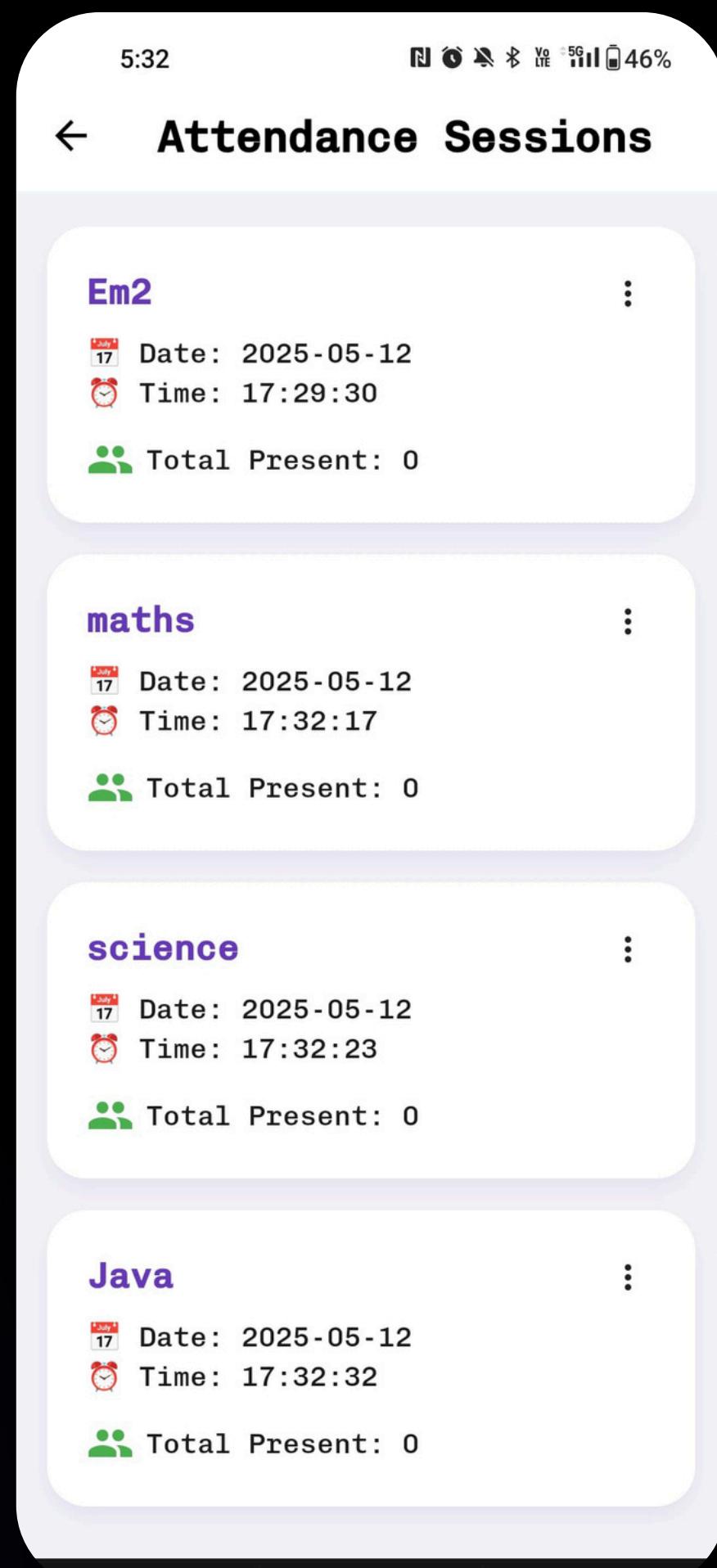
# ATTENDANCE SESSIONS PAGE

## ✓ Introduction

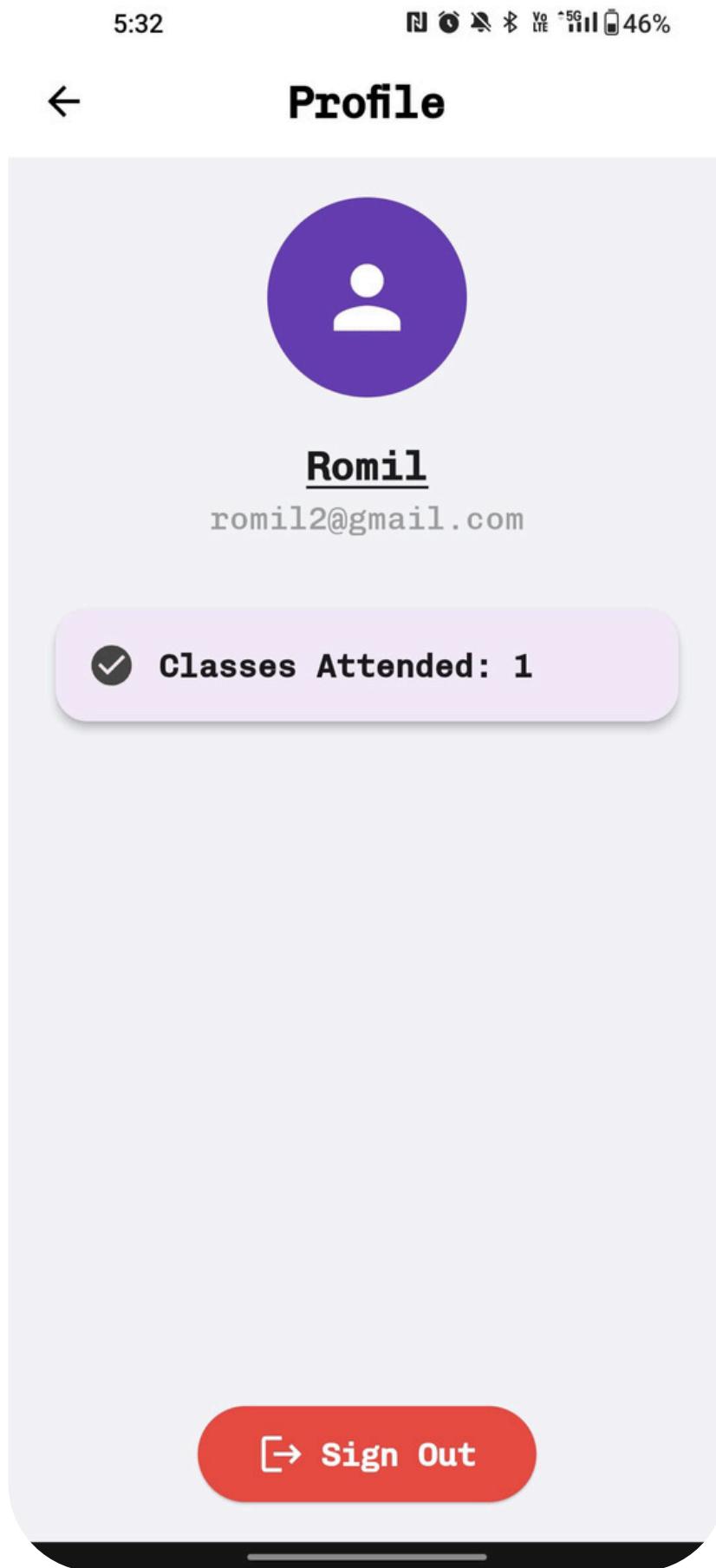
- Displays a comprehensive list of all attendance sessions.
- Shows detailed attendance data for each session.

## ✓ Purpose

- Helps track attendance trends and participation rates.
- Allows instructors to identify absenteeism patterns.



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# PROFILE SCREEN

- Shows total number of classes attended
- Displays detailed attendance history
- User profile details (name, Email, etc.)
- Sign-out feature for secure logout

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# FUTURE ENHANCEMENTS

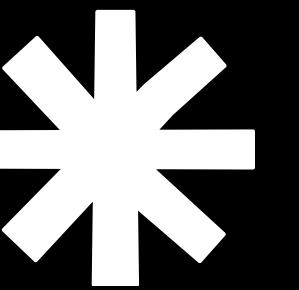
## ✓ Add geo-location restrictions

QR code scanning is enabled only when the user is within a specific geographic location, ensuring accurate and secure attendance or event check-ins.



## ✓ Session-based QR expiry

Session-based QR expiry ensures that QR codes are valid only for a specific session or time period, automatically expiring once the session ends to prevent unauthorized access.

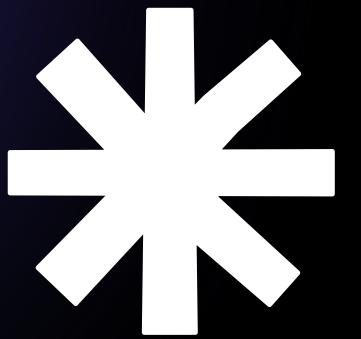




# CONCLUSION \*

Mark Me automates attendance with precision, offering a mobile-first, cloud-powered solution that ensures seamless and accurate tracking. Its user-friendly interface makes it easy for students, teachers, and event organizers to use, whether in schools, colleges, or various events. With its simplicity and efficiency, Mark Me revolutionizes attendance management, making it a reliable tool for any institution or gathering.

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# THANK YOU

Presented by Team Raghav