

# CAPSTONE PROJECT

## Five Problems



**TEAM NAME  
HARUHIRO**

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- Azad Singh Saklani
- Bal Mukund Singh
- Gaurav
- Divesh
- Akshay Chauhan
- Anoushka Joy David
- Palak Bankoti
- Preeti Thakur



# Our Team

## Research



Palak

Gaurav



## Designing



Anoushka

## Management



Preeti

Divesh



## Data Analysis



Bal Mukund

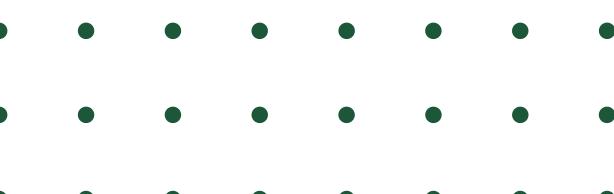
## Software Development



Azad



Akshay

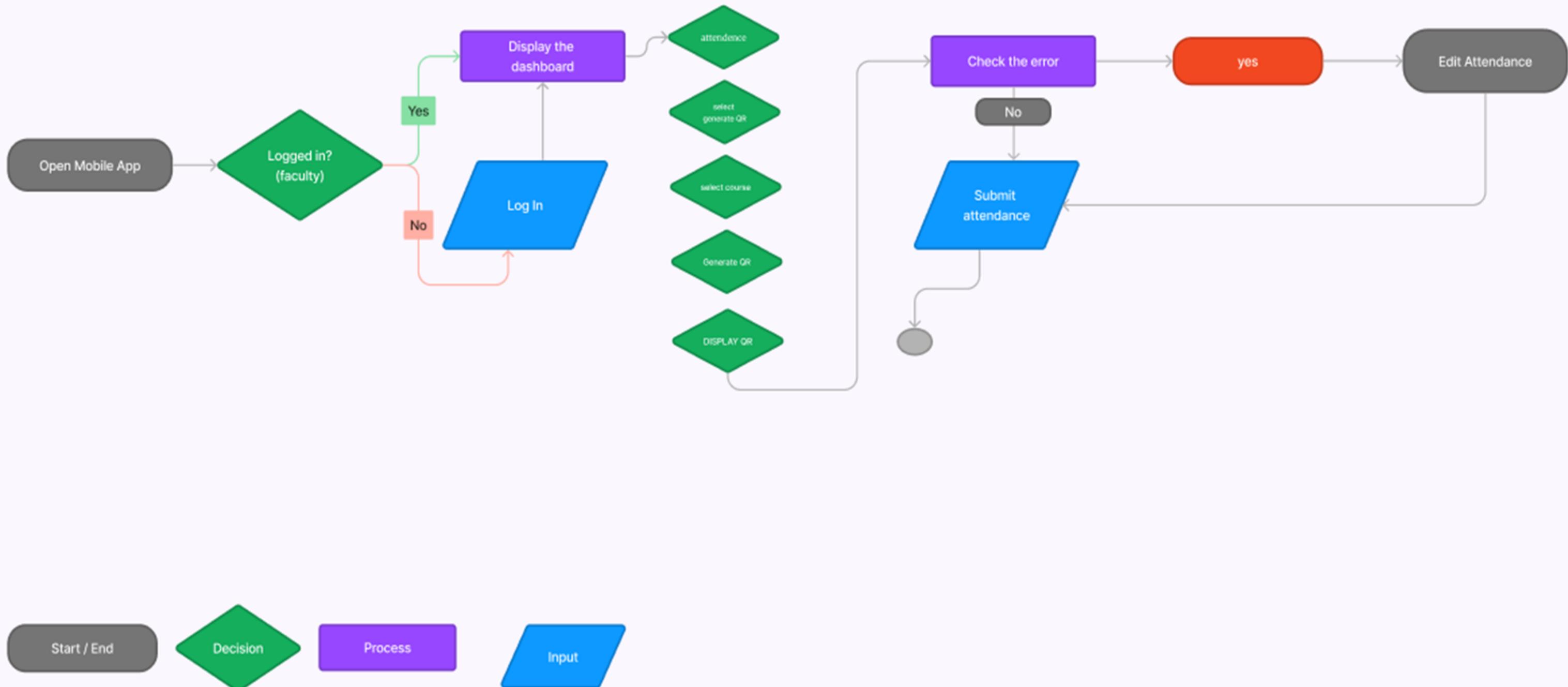


## Problem Statement:

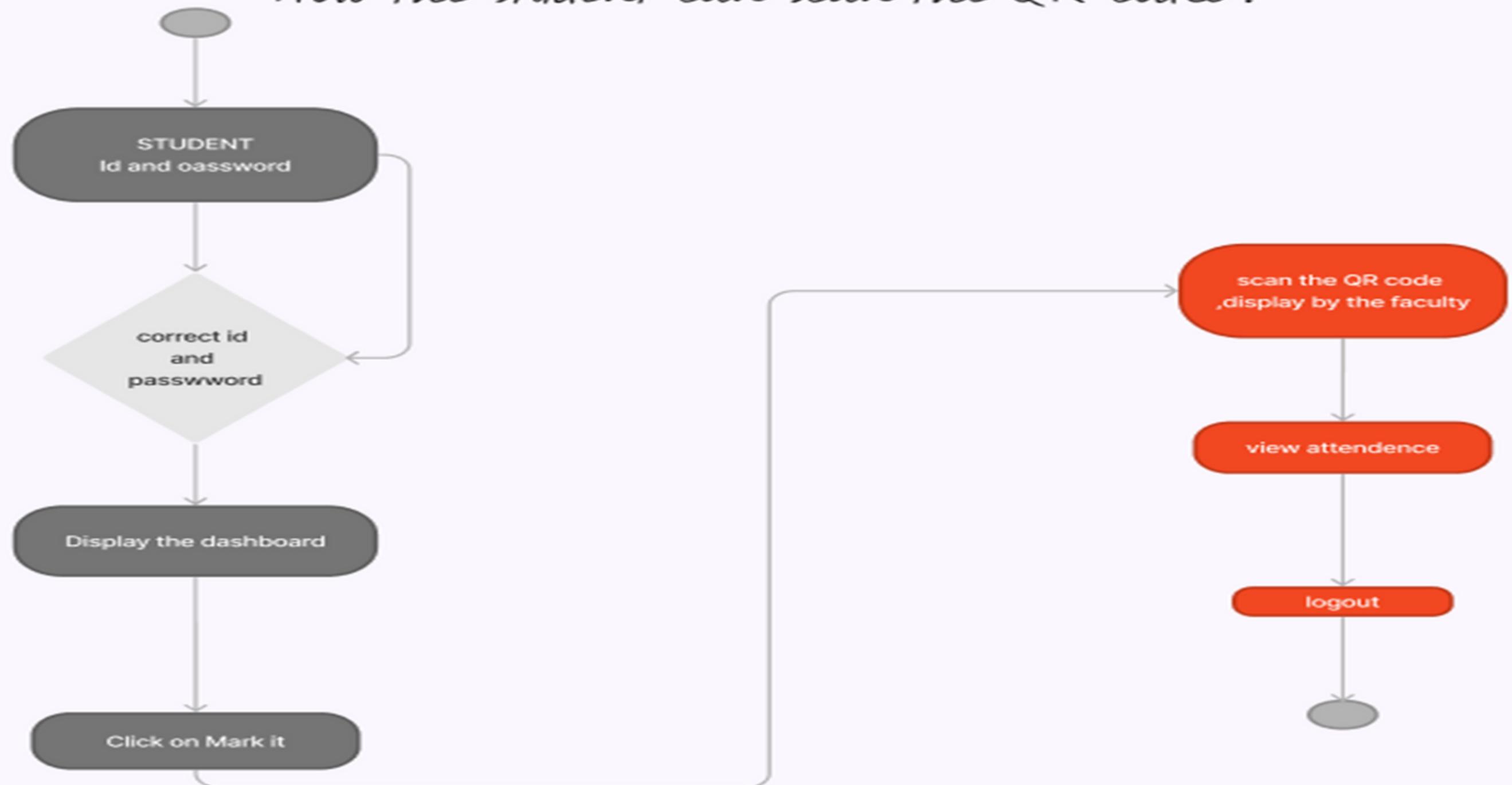
In the current classroom attendance process, instructors employ a manual roll call method wherein they call out the names of each student and mark absent students manually. This approach, while effective for smaller class sizes, presents significant challenges and inefficiencies when applied to larger classes comprising 100 to 150 students. The key issues and concerns in the existing attendance process include:

- Time-Consuming and Chaotic Process: In large classrooms, the process of calling out each student's name and recording their attendance manually is excessively time-consuming, requiring approximately 15 minutes out of the 55-minute lecture duration. This results in a significant portion of valuable instructional time being dedicated to attendance-taking, leading to an overall waste of a valuable educational resource.
- Student Disorientation: Due to the extended duration of roll call, students often become disoriented and distracted, leading to lapses in attendance recording. Consequently, this can result in inaccuracies and inconsistencies in attendance records.
- Confusion and Errors: The manual roll call method is susceptible to errors, particularly in situations where multiple students respond simultaneously or when students with similar names are present. These errors can lead to incorrect attendance records, which may impact students' academic progress and administrative processes.
- Teacher and Student Disruption: The manual roll call method disrupts the flow of the class, causing frustration for both instructors and students. It can be challenging for instructors to maintain control over the attendance process in large classes.

The process of generating QR code by teacher :



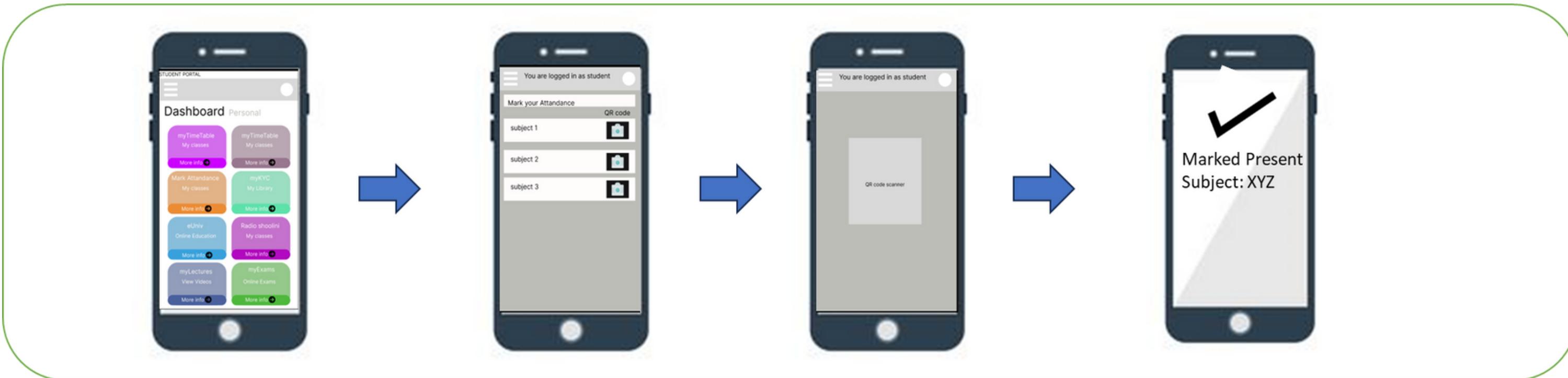
## How the student can scan the QR codee :





[Click here to see Prototype](#)

- Students can check their attendance in all subjects to date:-



- The Faculty will log in by Scanning the QR Code:-



[Click here to see Prototype](#)