Dept. of CS&E (DATA SCIENCE)
Adichunchanagiri Institute of Technology
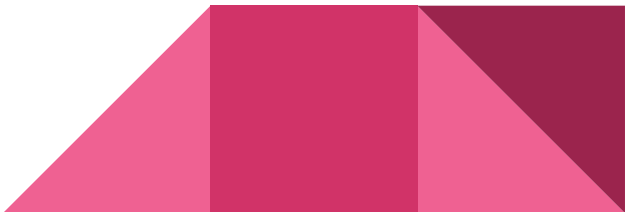**Chikkamagaluru - 577102**

Major Project – Proposal Seminar
On
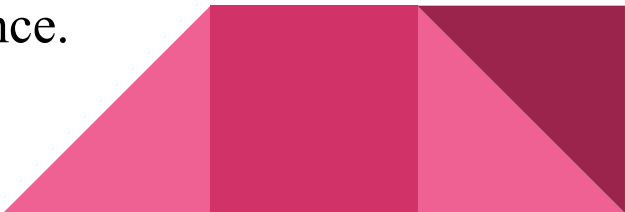## '' QR Attendance system''

Presented By, Sneha K.S (4AI23CD052)

Under the Guidance 0f Prof . Shilpa K .V

AGENDA

- **About the Project**
- **Motivation**
- **Existing System**
- **Proposed System**
- **Problem Statement**
- **Tools and Technology**
- **Expected Outcomes**

AB0UT THE PR0JECT

☐ The QR Code Attendance System is an efficient, fast and user-friendly tool for tracking attendance using QR codes.

☐ It utilizes HTML, CSS, and Django to create a web-based interface for marking attendance. This system is designed to work seamlessly when devices are connected to the Same Host Network.

☐ The teacher/faculty can display the QR Code using classroom projector so that present students can scan and mark their attendance.

MOTIVATION

- Speed & Efficiency: Instant check-in; eliminates lines and manual sign-in sheets

- Accuracy: Zero transcription errors; reliable, automatic time stamps.

- Data & Analytics: Real-time attendance tracking and easy post- event reporting

- Our goal is to give the automated attendance tracking for increased efficiency, accuracy and security

EXISTING SYSTEM

Current solutions rely on:

- Human Action

- Physical Artifacts

- Post- Event Processing

The current system rely heavily on physical materials, manual labor, and human reliability, all of which introduce friction, errors, and delays
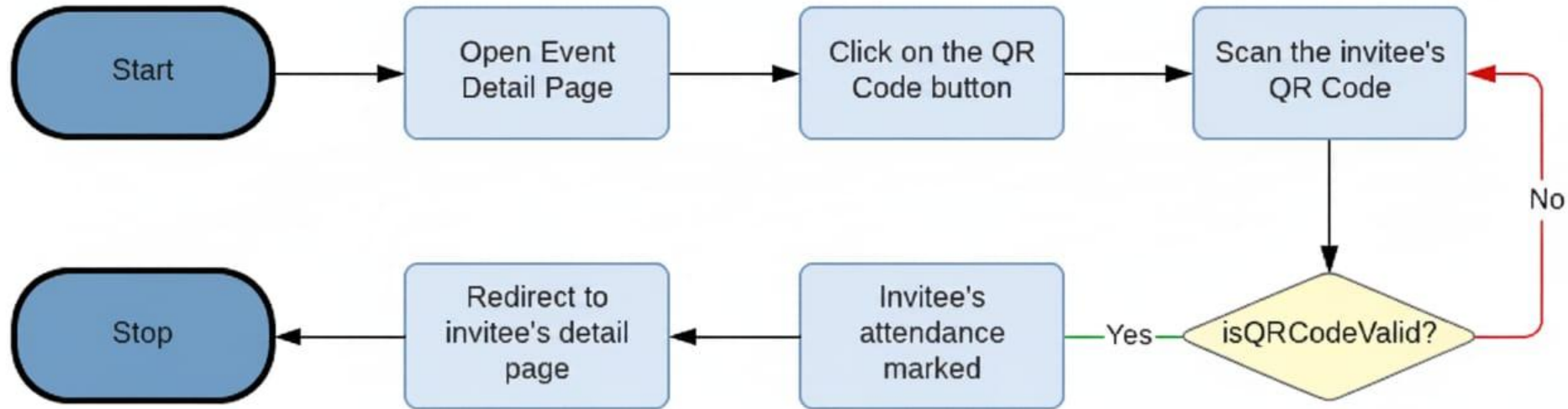
Proposed System

"QR-Attendence System" will offers:

- Automation

- Speed and flow

- Accuracy

- Real-time data

- Scalability

Architecture Design

Problem Statement

To design and implement a QR code-based attendance system that instantly digitize attendance data using mobile scanning technology

Tools and technology

- **Language:** Python, HTML, CSS

- **Framework :**Django(backend), bootstrap

- **Database:** MySQL

- **Libraries:** Django ORM,

- **Tools:** VS code

- **Deployment:** Heroku

Expected outcomes

 It will provide faster and more accurate attendance tracking with real – time data, while also eliminating manual errors, reducing paperwork, and increasing security against fraud

Questions?