Hackathon – Techfusion 2024

The Hackathon Results wil be decided on the following judging criteria on the following parameters:-

1. Application Reliability

2. User Experience

3. Efficiency

4. Responsiveness

5. Privacy & Security

Paticipants are free to choose any open source technology , technology and platform (web as well as mobile). Technology which helps to build software using drag and drop or without coding is not allowed. The code should be human readable.

Project 1:-

Problem Statement :- To design a class routine / scheudule creation system

Manually class routine creation system is tedious and overwhelming. This approach also suffers from various conflicts in teacher coordinaiton. Sometimes same teacher is assigned to different class at same time which is difficult to track when number teacher ,subject and classes are very high.

We are expecting the participants to write and develop web application to perform this tedious task i n ease.

The project can be made as a Web Applicaton which allows users to create the schedules easily .

1. Teachers/Professor can be added ,updated and removed.

2. Classes can be created, updated and removed.

3. Subjects can be added ,updated and removed.

3. Routines can be created on basis of class.

Note:- Application should be capable of detecting conflicts on teacher availability at particular period and do not allow such conflict operations .

Project 2:-

Problem Statement:- To develop attendance management system to manage attendance of Class rooms.

1. Teachers can be added , updated and removed.

2. Student can be added , updated and removed.

3. Classes can be created , updated and removed.

4. Student and teacher should be enrolled into the class and class teachers will be capable of marking attendance on a particular date.

Project 3:-

Problem Statement- To develop Certification Creation and Verification System to verify authentic certificates

1. Certification templates will be available in system beforehand. It should be customisable.

2. Users can be added , updated and removed.

3. Event can be added , updated and removed.

4. Certificates can be added updated and removed with details as:-

a. Details of event

b. Details of User

c. Position/Contribution into the event

5. Certifcation should have certificate numer as well as QR code which can be used to verify the certificate. It can also be used to download certificate in pdf format

Problem 4:-

Problem Stateent- To develop Identity Card Creation and Verification System using verification no as well as QR Code.

1. Identity card format will be available in system beforehand. It should be customisable.

2. Users can be added , updated and removed

3. Identity Card issuing authority details can be added , updated and removed.

4. Identity card can be added updated and remove with details as :-

a. Details of Identity card issuing authority.

b. Details of Identity card holder

c. Position/Responsibility of ID card holder

5. Identity card should have identity card number as well as QR Code which can be used to verify the ID card. It can also be sued to download identity card in pdf format.

Problem 5

Problem Statement:- To provide real time data about schedule classes to student by teacher.

It’s difficult to manage communication between teacher and student about their scheduled classes updates. We are expecting from participants to build a application for stuent and teachers to get information about their scheduled classes.

1. Student can be added,updated and removed.

2. Teachers can be added ,updated and removed.

3. Classes can be added , updated and removed.

4. Teacher can schedule classes, update timing and delete them.

5. Student can get live alert about classes scheduling actions.