Project Report

Project Title : Event Management Using QR Code

Technologies Used

Frontend:

1. HTML AND CSS
2. BOOTSTRAP 5

Backend:

1. Python Flask Framework
2. SQL Database

**Abstract**

Event Management is a very difficult task when it comes to paperwork,

passes and security of the event

However this web app helps in managing the event by the use of QR codes

instead of physical passes

The user is allotted a unique QR code for the event and the QR code can

be used only once for an entry in a event which is registered by the user

There are a lot of functionalities added in the web app such as event

calendar along with registration forms for different events

To add the required functionalities Python’s Flask Framework is used

which connects the SQL Database with the backend and also user

authentication and unique QR Code generation is done in the Flask

Framework File

The Event passes generated by the app are verified at the entrance

and only then the user is granted access

**INTRODUCTION**

The project is developed as a web app the technologies used in the project are very crucial to develop a web project

This project is developed for the need of Paperless event management which reduces the wastage of papers used for just one or two days of event

The need for the project is to reduce the security checks done in an event for security compromise by outsiders entering the event

This web app does the most work by giving a unique QR code to the user which will be used at the entrance of the venue to check for the validity of the pass for the event

This will reduce the queue at the entrance of the venue as it is very fast as compared to manual checks done at the entrance

The QR code given will only be valid for the event Registered and not for another event

The QR code consist of a matrix which is in the form of rows and columns

These QR codes are used to store data of the users and generate a event pass which is required at the venue and access will not be granted to any users even if the pass is invalid

The User will register himself/herself on the web app to apply for event passes

For registration of user username email are required and the user will set a password which will be encrypted using the bcrypt dependency in python app

Also the QR code will be generated using the dependency qrcode in python

**LITERATURE SURVEY**