

Parking Transactions Management System

Objectives:

I built this solution to manage the parking transactions for the employees and visitors of the company.

Motivation:

In this project, as a try to get the job position, I try to cover as many features as I can of Canvas App such as using QR code scanner to read QR code, search on the scanned value in the database, using camera to capture personal ID card, pushing notification and sending email.

Problem Statement:

The company manages the parking lot transactions traditionally by a security guard who stops every coming car and asks him some questions whether he is an employee of the company or a visitor to an employee in the company. The security guard needs to check the visitor by calling the employee to make sure. This procedure consumes time, money and effort. In addition, it is not convenient and not manageable too. The company needs an application solution to solve the employees entrance transactions and the visitors entrance transactions.

Frame the solution:

- As for the employees' entrance transactions, there will be a QR poster on the employee's car. The security guy will scan the poster via the application to see the employee information and let him in.

- As for the visitor's entrance transactions, the employee will send a request to the security guy via the application about the visitor's name and the visit date. The security guard will have the visitor's list of each day. Once the visitor comes and says his name, the security can check easily in the visitors list without calling the employee and check.

Requirements:

Database:

I use DataVerse as a database for the application.

Entities:

- Departments
- Employees
- Car Types
- Car Sub Types
- Visit Request
- Employee Car Transaction
- Visitor Transaction
- Parking