Sharadindu Adhikari, 19BCE2105
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Chosen Scenario: **SMART PARKING**

Q1. Identify the Functional and Non-functional Requirements

1. Functional Requirements
  o   Admin need to enter all details for registration.
  o   Admin need to insert all details about customer and vehicle.
  o   Admin need to save all the details of customer and vehicle.
  o   Admin can retrieve the details of customer.
  o   Admin must generate a report for payment.

2. Non-functional Requirements
  o   Usability: This website has appropriate user interface and adequate information to guide the user in order to use the website.
  o   Portability: The website is portable as it is an online site running across the net
  o   Flexibility: It is very flexible
  o   Security: This website provides user and authentication so that only the legitimate users are allowed to use the website
  o   Maintainability: This website is capable to secure the data and easily retrieve the data.
  o   Scalability: This system can be further modified in future.

Q2. Draw the WBS [modules]

STAFF RECORDS

USER RECORDS

VEHICLE RECORDS

VEHICLE PARKING DETAIL

TRANSACTION DETAIL

DESCRIPTION:

1. STAFF RECORDS: It helps to provide details of staff that uses the Vehicle parking management System.

2. USER RECORDS: This record helps for the authorization for using Vehicle Parking Management System. It Provides the Username and Password for the User (staff). It also includes the level of authority that means it separates the normal users and administrator.

3. VEHICLE RECORDS: This most important record which focuses in our Vehicle Parking Management System.

4. VEHICLE PARKING DETAIL: This report is very essential in this system. This report provides a brief summary of vehicle activities. It shows the overall Entry and Exit time.

5. TRANSACTION DETAIL: Has control over the entire database and regularly updates the list.

Q3. Draw the ER or DFD

ER-Diagram