**Project Synopsis**

1. **Title of the Project:**

Pay and Park

1. **Objective of the project:**

The main objective of this project is to introduce an easy and modern parking system which helps customers as well as operators. We make this system for Private space owners, malls, hotels to calculate vehicle parking bill by entering in-time and out-time. Even this system helps customer to check nearest parking space and available parking slots.

1. **Project category:**

RDBMS (Relational Database Management System)

1. **Hardware and Software Requirement Specifications:**

**Hardware requirements:**

* Processor: Dual core or higher
* RAM: Minimum 1 GB
* Hard disk space: Minimum 40 GB
* Operating system: Windows XP or higher

**Software requirements:**

* IDE : Adobe dreamviewer
* Software: XAMPP
* Apache server
* MySQL database server

**Languages to be used:**

* **Front End: PHP**
  + PHP stands for PHP: Hypertext Preprocessor
  + PHP is a server-side scripting language. PHP scripts are executed on the server
  + PHP supports many databases (MySQL, Informix, Oracle, Generic ODBC, etc.)
  + PHP is an open source software (OSS)
* **Back End: MY SQL**
  + MySQL is a database server
  + MySQL is ideal for both small and large applications
  + MySQL supports standard SQL

1. **Project modules:**
   * **Login module:** This module is for administrator, agents and customer to login to the system by entering login credentials. Customer needs to register to the system for login credentials.
   * **Dashboard module**: This module is for administrator to configure complete features of the website. Only administrator can modify Branch details, Vehicle types, tariff details, parking slots, etc.
   * **Vehicle module**: This module stores vehicle details and vehicle types with parking fee.
   * **Parking location module**: This module stores parking entries with entry date time, exit date time, cost, etc.
   * **Report module:**
     + **Operator wise report:** This module displays datewise operator collection report.
     + **Vehicle wise report:** This module displays two wheeler, four wheeler vehicle report.
     + **Bill report:** This module displays receipt and billing report.
     + **Day wise report** :This module displays days transaction report.
2. **Innovativeness and usefulness:**

* The total slots of parking space automatically gets reduced with a display indication. Besides indicating the available number of parking in the pie chart.
* Upon every entry of a car the parking availability gets reduced by one number while every exit the number increases.
* The system sends alert message to the user if parking slots are full.

1. **Future scope of the project:**

* We can develop and integrate with Android or iphone based apps in the future.
* We can implement Card payment system in the future.