(Annexure-I)

**A Project Proposal and Synopsis**

On

CAR RENTAL SYSTEM

Submitted in partial fulfillment of the requirements for the

award of the degree of

**BACHELOR’S OF COMPUTER APPLICATIONS**

**Session:2019-2022**

**By:**

**RITIKA RANA: 19BCA1126**

**Supervised By:**

**Dr. Abdullah : E5384**

DESIGNATION: ASSISTANT PROFESSOR



**University Institute of Computing**

**CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB,140413**

**Project Coordinator: Head-UIC:**

**Dr. MANISHA MALHOTRA**

**Project Proposal**

**Submitted By: -**

**Name: Ritika Rana UID: 19BCA1126**

**Section: 19BCA6-1 (Group A) Date: 18 February 2022**

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| **Project Title:** |
| **CAR RENTAL SYSTEM** |
| **Project Team:** |

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| --- | --- | --- | --- |
| **Team Members** | **Name** | **UID** | **Section** |
| Member 1 | Navjot Kaur | 19BCA1108 | A |
| Member 2 | \_\_ | \_\_ | \_\_ |

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| **Project Objective:** |
| To produce a web-based system that allow customer to register and reserve car online and for the company to effectively manage their car rental business and to ease customer’s task whenever they need to rent a car |

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| **Project Number (If selected from project Basket)** | No. 34 |

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| **Project Outcome (Tick the correct)** | Patent |  | Journal Paper |  | S/W Project | yes | H/W +S/W Project |  | Other |  |

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| **Remarks of Supervisor:** |
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| **Name of the Supervisor (with E Code)** | **Dr. Abdullah** |

**INTRODUCTION TO PROJECT**

This project is intended thus on be employed by rent-a-car Company specializing in dealing cars to customers. It's a web system through that customers will read accessible cars, register, read profile and book automotive.

**Project features for identification of uniqueness**

• This on-line self-drive resolution is absolutely practical and versatile.

• It is extremely straightforward to use.

• This on-line self-drive system helps in back workplace administration by streamlining and standardizing the procedures.

• It saves a great deal of your time, cash and labour.

• Eco-friendly: The observation of the vehicle activity and also the overall business becomes straightforward and includes the smallest amount of paper work.

• The code acts as associate degree workplace that's open 24/7.

• It will increase the potency of the management at giving quality services to the purchasers.

• It provides custom options development and support with the code

**Client Identification and Recognition of Need :**

The advancement in info Technology and net penetration has greatly increased varied business processes and communication between firms (services provider) and their customers of that rental business isn't unseen. This E-Car Rental System is developed to supply the subsequent services:

• Enhance Business Processes: To be able to use net technology to project the rental company to the world world rather than limiting their services to their native domain alone, so increase their come back on investment (ROI).

• Online Vehicle Reservation: A tools through that customers will reserve on the market cars on-line before their expected pick-up date or time.

• Customer’s registration: A registration portal to carry customer’s details, monitor their dealing and used same to supply higher and improve services to them.

• Group bookings: permits the client to book area for a bunch within the case of weddings or company conferences (Event management).Recognition & knowledge of relevant contemporary issues

A car rental is a vehicle that can be used temporarily for a fee during a specified period. Getting a rental car helps people get around despite the fact they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who needs a car must contact a rental car company and contract out for a vehicle. This system increases customer retention and simplify vehicle and staff management.

**Project Identification**

The advancement in data Technology and web penetration has greatly increased numerous business processes and communication between firms (services provider) and their customers of that you-drive trade isn't unseen. This E-Car Rental System is developed to produce the subsequent services:

To be able to use web technology to project the rental company to the world world rather than limiting their services to their native domain alone, therefore increase their come back on investment (ROI).

Online Vehicle Reservation: A tools through that customers will reserve out there cars on-line before their expected pick-up date or time.

A registration portal to carry customer’s details, monitor their dealings and used same to supply higher and improve services to them.

Group bookings: permits the client to book area for a gaggle within the case of weddings or company conferences (Event management).

**Task Identification**

It provides the abundant required comfort with low-cost fare. In several cases, the fare charged is found to be less by redeeming of coupons and by victimization provided discounts than the cost accounting of our own vehicles. while per the necessity, rider will book 2 wheeler, four wheeler and shared vehicles

**Technology used**

* **PHP**

PHP**: Hypertext Pre-processor** is a widely used, general-purpose scripting language that was originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document.

As a general-purpose programming language, PHP code is processed by an interpreter application in command-line mode performing desired operating system operations and producing program output on its standard output channel. It may also function as a graphical application. PHP is available as a processor for most modern web servers and as standalone interpreter on most operating systems and computing platforms.

PHP was originally created by Rasmus Lerdorf in 1995 and has been in continuous development ever since. The main implementation of PHP is now produced by the PHP Group and serves as the *de facto* standard for PHP as there is no formal specification. PHP is free software released under the PHP License.

PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting and client-side GUI applications. PHP can be deployed on most web servers, many operating systems and platforms, and can be used with many relational database management systems. It is available free of charge, and the PHP Group provides the complete source code for users to build, customize and extend for their own use.

Originally designed to create dynamic web pages, PHP now focuses mainly on server-side scripting, and it is similar to other server-side scripting languages that provide dynamic content from a web server to a client, such as Microsoft's Active Server Pages, Sun Microsystems’ Java Server Pages, and mod\_perl. PHP has also attracted the development of many frameworks that provide building blocks and a design structure to promote rapid application development (RAD). Some of these include CakePHP, Symfony, CodeIgniter and Zend Framework, offering features similar to other web application frameworks.

* **MySQL**

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. MySQL is officially pronounced ("My S-Q-L"), but is often pronounced ("My Sequel"). It is named for original developer Michael Widenius's daughter

The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL is owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Sun Microsystems, a subsidiary of Oracle Corporation.

MySQL code uses C and C++. The SQL parser uses yacc and a home-brewed lexer, sql\_lex.cc.

MySQL works on many different system platforms, including AIX, BSDi, FreeBSD, HP-UX, i5/OS, Linux, Mac OS X, NetBSD, Novell NetWare, OpenBSD, OpenSolaris, eComStation, OS/2 Warp, QNX, IRIX, Solaris, Symbian, SunOS, SCO OpenServer, SCO UnixWare, Sanos, Tru64 and Microsoft Windows. A port of MySQL to OpenVMS also exists.

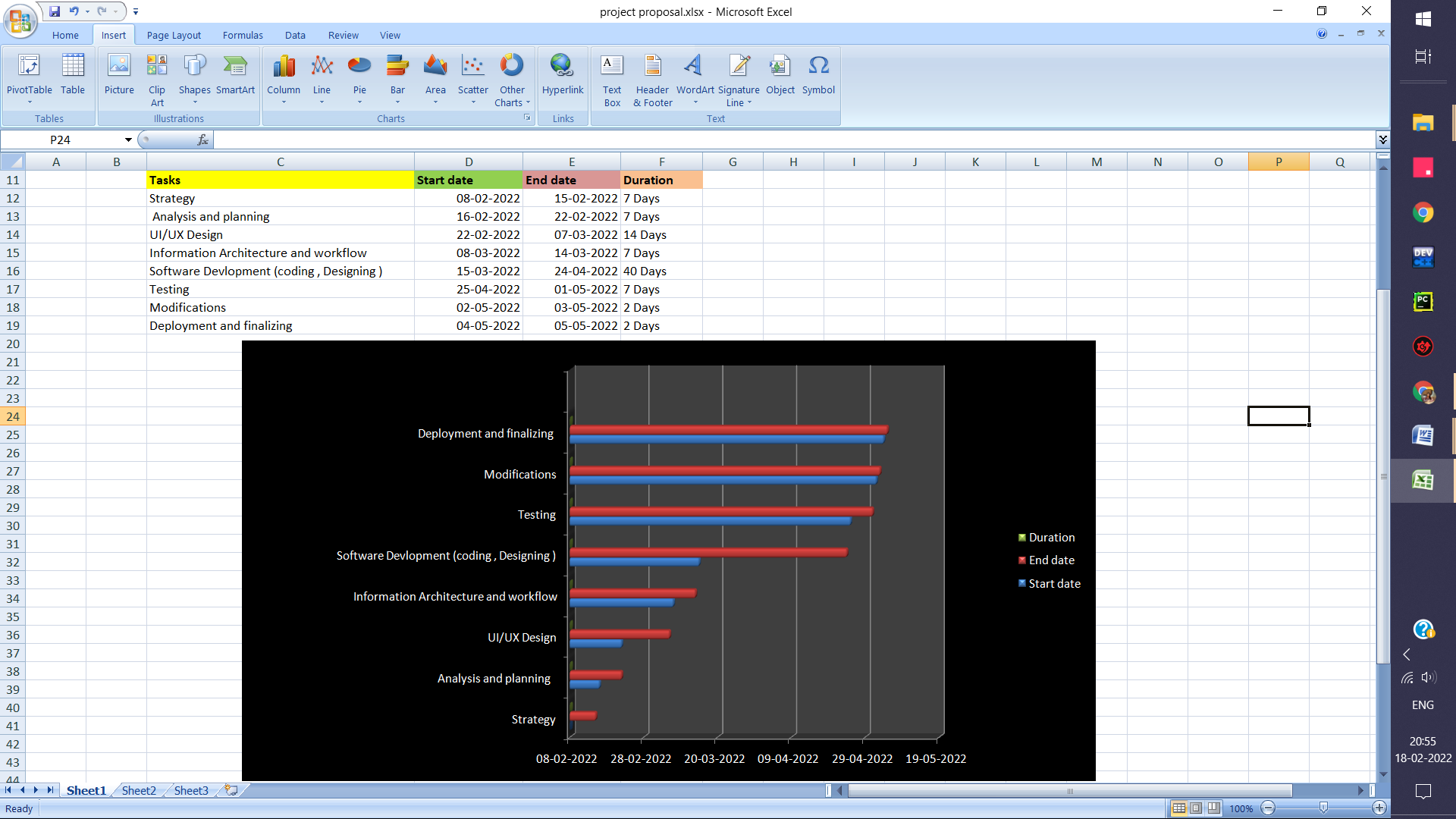
All major programming languages with language-specific APIs include Libraries for accessing MySQL database. In addition, an ODBC interface called MyODBC allows additional programming languages that support the ODBC interface to communicate with a MySQL database, such as ASP or ColdFusion. The HTSQL - URL based query method also ships with MySQL adapter allowing direct interaction with MySQL database from any web client via structured URLs. The MySQL server and official libraries are mostly implemented in ANSI C/ANSI C++.

* **APACHE SERVER:**
* In this project apache server is used to parse and execute PHP pages, beforedeploying websites on the server, the website should be tested at the developer side to get a feel of how the website will work on actual server.
* Therefore apache server is like a local server on the developer side, apache server should be informed about the environment on which it should work.
* In our project apache server is configured to work with PHP, in this way all the PHP pages are parsed and executed by the server.
* When apache is installed on the system, then its services is controlled by apache service monitor.

**Objectives of the project**

* To produce a web-based system that allow customer to register and reserve car online and for the company to effectively manage their car rental business.
* To ease customer’s task whenever they need to rent a car

**Gant Chart/ Use of modern project planning tools.**

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**Timeline of Project in days**

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| --- | --- |
| OBJECTIVE | Days Required (maximum) |
| Strategy | 7 days |
| Analysis and planning | 7 days |
| UI/UX design | 14 days |
| Information Architecture and Workflow | 7 days |
| Software development ( coding, designing ) | 40 days |
| Testing | 7 days |
| Modifications (if needed) | 2 days |
| Deployment and Finalizing | 2 days |
| TOTAL DAYS | 86 days |

**Software/Hardware required:**

* Browser - Chrome, firefox, microsoft edge.
* Windows 7 and above. ( windows 10 preferred for better experience )
* Good internet connection.

Team Members information with Technical knowledge as per project:

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| --- | --- | --- | --- | --- |
| **S.No.** | **Name of the Student** | **Technical Knowledge** | **Contact No.** | **UID** |
| 1. | Ritika Rana | Coding and UI/UX | 8917413235 | 19BCA1126 |