

# “Owncab” Online Cab Booking By GPS Tracking

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**Abstract-** CabBooking is a blooming business that has the potentiality to generate huge revenue using Cab Booking System, instead of the traditional Cab hailing system. One can enhance the quality of service as well by streamlining and automating the processes by taking advantage of such technology. Our feature loaded and fast Cab Booking Application is enough efficient to handle the intricacies of the simultaneously running processes that ensures smooth growth of the business and reduce the downtime.

**Keywords-** Server, advantages, technology, architecture

## I. INTRODUCTION

OwnCab is an online cab booking application that can be used by both the passengers as well as the cab drivers. It gives the cab driver freedom to join the application whenever he or she wants and also gives freedom to customer to bargain with the fair prices. Online Cab Booking System specializing in Hiring cabs to customers. It is an online system through which customers can view available cabs and register the cabs. Cab booking service is a major transport service provided by the various transport operators in a particular city. Mostly peoples use cab service for their daily transportations need. The company must be a registered and fulfils all the requirements and security standards set by the transport department. Online Cab Booking System is a web based platform that allows your customers to book their taxi online from the comfort of their own home or office. The platform offer an easy interface where the taxi owners can manage the cab information. More and more Taxi companies are looking for integrated taxi booking systems as it makes life much easier for The passengers this is highly important and in today's internet age people should be able to book taxis online without having to pick up the phone and the taxi company as all their bookings are now managed via an automated system which means they have an electronic record of future and historic bookings.

## II. HISTORY

The current system that we have here is from companies like Ola and Uber. There are some companies like the Meru cab that have their own services. But the main drawback here is that every system that exist has a centralized

control, which means that there will be a amount charged by these companies on the drivers and when driver is charged extra money it will increase the ride cost that the passengers pay. So, the current system doesn't give the control in the hands of the driver riding the cab. Also, there are many restrictions put by these companies on the type and condition of the vehicles that too will be eliminated by my system.

## III. TECHNOLOGY USED

### 1. HTML

For coding the User Interface, we have used HTML CSS and bootstrap. And for processing the data we have used PHP. First developed by Tim Berners-Lee in 1990, HTML is short for HyperText Markup Language. HTML is used to create electronic documents (called pages) that are displayed on the World Wide Web. Each page contains a series of connections to other pages called hyperlinks. Every web page you see on the Internet is written using one version of HTML code or another.

### 2. CSS :

Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML.

### 3. Bootstrap

Bootstrap is a powerful front-end framework for faster and easier web development. It includes HTML and CSS based design templates for common user interface components like Typography, Forms, Buttons, Tables, Navigations, Dropdowns, Alerts, Modals, Tabs, Accordion, Carousel and many other as well as optional JavaScript extensions.

### 4. PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose

scripting language that is especially suited for web development and can be embedded into HTML.

5. JavaScript

Javascript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

**IV. OBJECTIVES OF SYSTEM**

- To ease the process of booking cab.
- To allow the drivers to get employment.
- To give access to free cab booking service.
- Give freedom to passenger to bargain price.
- To develop a responsive website.
- To develop a mobile first website

**V. SCOPE OF SYSTEM**

- It allows people to book cab rides.
- Allows any cab driver to use the service anytime
- Its free to use.
- Provides a responsive interface.
- Can be easily accessible through mobile devices.
- Easy to configure the web application.
- Can be modified anytime.

**VI. SYSTEM ARCHITECTURE**

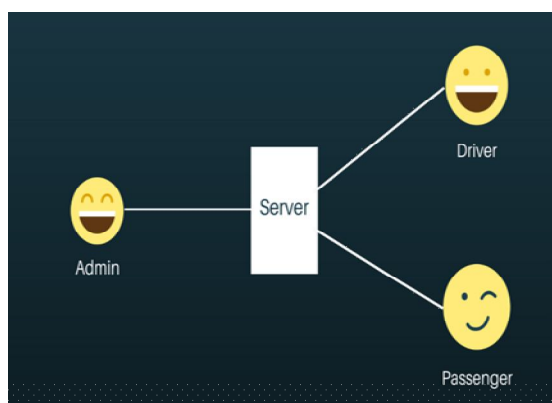


Fig 1. System architecture

Our System architecture is one of the most common architecture which is the client server architecture. Client/server architecture is a computing model in which the server hosts, delivers and manages most of the resources and services to be consumed by the client. This type of

architecture has one or more client computers connected to a central server over a network or Internet connection. This system shares computing resources.

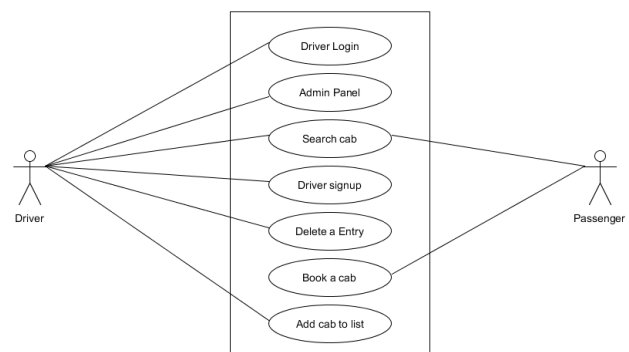
Client/server architecture is a producer-consumer computing architecture where the server acts as the producer and the client as a consumer. The server houses and provides high-end, computing-intensive services to the client on demand. These services can include applications access, storage, file sharing, printer access and/or direct access to the server’s raw computing power.

Technology that separates computers and application software into two categories clients, and servers to better employ available computing resources and share data processing loads. A client computer provides the user interaction-facility (interface) and some or all application processing, while the a server computer might provide high-volume storage capacity, heavy data crunching, and/or high resolution graphics. Typically, several client computers are connected through a network (or networks) to a server which could be a large PC, minicomputer, or a mainframe computer. Every computer connected to a website acts as a client while the website's computer acts as a server.

Client/server architecture works when the client computer sends a resource or process request to the server over the network connection, which is then processed and delivered to the client. A server computer can manage several clients simultaneously, whereas one client can be connected to several servers at a time, each providing a different set of services. In its simplest form, the Internet is also based on client/server architecture where the Web server serves many simultaneous users with Web page and or website data.

**VII. UML DIAGRAMS**

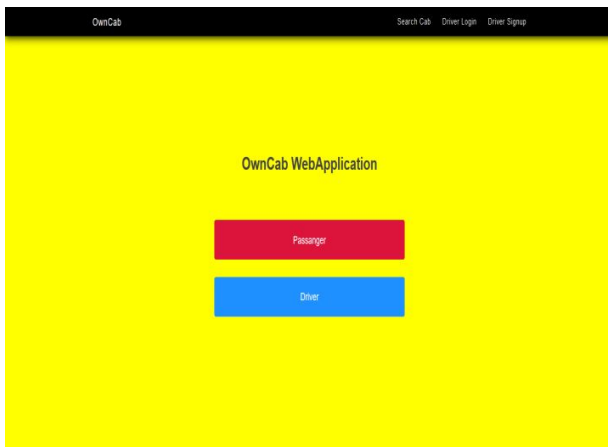
Use case diagram:



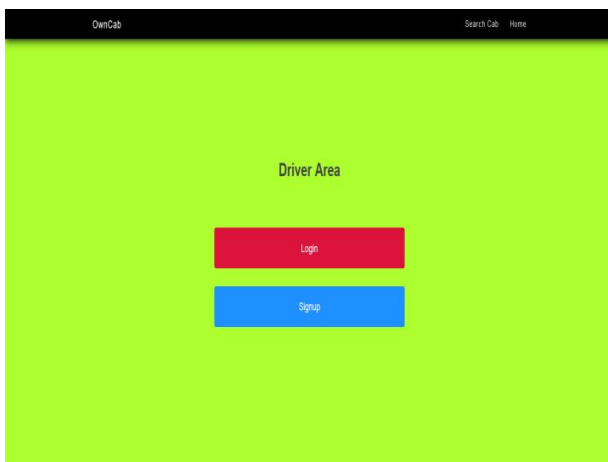
**VIII. USER INTERFACE**

We have done our best for developing the user interface. We have developed web application which is easy to use, also it is cross platform application as it is a web app. All the components we designed are responsive which means no matter what kind of display size is used to access the web page the page fits the display size. Feature wise we have added only the necessary features which will help the organization. First of all, we have developed a start page to the website which will contain the link to remaining features. The front page will be customizable and will contain the information about that particular organization. First developed by Tim Berners-Lee in 1990, HTML is short for Hypertext Markup Language. HTML is used to create electronic documents (called pages) that are displayed on the World Wide Web. Each page contains a series of connections to other pages called hyperlinks. Every web page you see on the Internet is written using one version of HTML code or another.

HOME:



DRIVER:



**Driver Signup**

Enter Name :

Enter Email :

Enter Phone Number :

Enter Password :

Confirm Password :

Use of files

- Credentials** : Contains the credentials to make a connection with the MySQL database. We can include this file in any file.
- Driver** : Choose between login and signup.
- Driver Login** :Login Page for driver.
- Driver Signup** :Signup page for driver.
- Driver Panel** :Contains code for the admin panel.
- Logout** :Contains code for log out of system.
- Index** :Main page that loads when server is accessed.
- Delete** :Code to delete driver active status.
- Search** :Code to search cab.

**limitation of current system**

The current system that we have here is from companies like Ola and Uber. There are some companies like the Meru cab that have their own services. But the main drawback here is that every system that exist has a centralized control, which means that there will be a amount charged by these companies on the drivers and when driver is charged extra money it will increase the ride cost that the passengers pay. So, the current system doesn't give the control in the hands of the driver riding the cab. Also, there are many restrictions put by these companies on the type and condition of the vehicles that too will be eliminated by my system.

**Advantages of proposed system**

The main advantage of this system is that it has a decentralized control which will eliminate the third-party involvement. There will be no extra charges charged by the web application as we will rely on advertisement for funds for development and maintenance of website. The user interface is

very simple to use and even a new visitor can visit required page. The interface is also made responsive which means it can adapt any screen size which makes it mobile friendly.

### IX. CONCLUSION

This app is a great yet simple and light web application. The interface for using it is quite simple so no tech savvy operator is required to maintain the website. Anyone who can use a mobile phone and can read English can register a cab or hire one. It also has a flexible development scope so if in case any new feature need to be integrated it would be easy. The user interface has made in such a way that it is quite easy to use even to a newbie.

### X. FUTURE SCOPE

We have planned to future develop this product. We will also shift from shared hosting to dedicated hosting with SSD based servers to increase the overall throughput of the system. We will also add location service to get the accurate result of the drivers location. Currently we are not using any PHP framework but to add some advance features we will use such framework. We will also try to use some advance technologies like angular and ajax which will make the user interface more interactive

### XI. ACKNOWLEDGEMENT

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