CAPSTONE PROJECT REPORT

Project Term January-May 2021

WHISSING WHEELS CAR RENTAL SYSTEM

DONE BY:

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GROUP NO: 4

SECTION: K20MD

COURSE CODE: CSE326

FACULTY: Dr. Moin Hasan

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WHISSING WHEELS
CAR RENTAL SYSTEM

Submitted by

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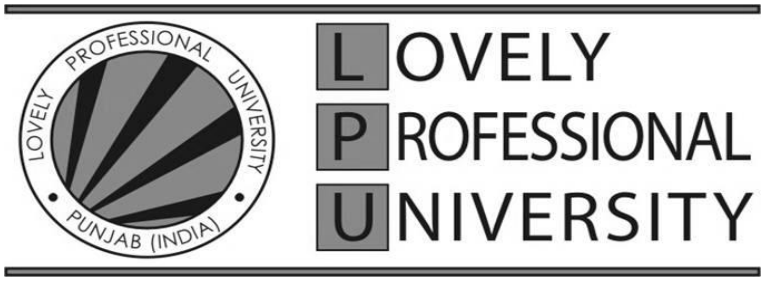
Project Group Number: 4

Course Code: CSE326

Under the Guidance of

Dr. Moin Hasan.
(Name of faculty mentor with designation)

School of Computer Science and Engineering



PAC Form

DECLARATION

We hereby declare that the project work entitled "WHISSING WHEELS CAR RENTAL SYSTEM" is an authentic record of our own work carried out as requirements of Capstone Project for the award of B. Tech degree in Computer Science & Engineering - Data Science (ML and AI) with Upgrad (Programme Name) from Lovely Professional University, Phagwara, under the guidance of Dr. Moin Hasan, during January-May 2021. All the information furnished in this capstone project report is based on our own intensive work and is genuine.

Project Group Number: 4

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Registration Number: **12013261**

Name of Student 2: **SARA BORA**
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Name of Student 4: **BYGARI ARAVIND**
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Sara Bora
(Signature of Student 2)
Date: 22-04-21
Yerrapothu Neeraj
(Signature of Student 3)
Date: 22-04-21
Bygari Aravind
(Signature of Student 4)
Date: 22-04-21

CERTIFICATE

This is to certify that the declaration statement made by this group of students is correct to the best of my knowledge and belief. They have completed this Capstone Project under my guidance and supervision. The present work is the result of their original investigation, effort and study. No part of the work has ever been submitted for any other degree at any University. The Capstone Project is fit for the submission and partial fulfillment of the conditions for the award of B. Tech degree in _____ (Programme Name) from Lovely Professional University, Phagwara.

Signature and Name of the Mentor

Designation

School of Computer Science and Engineering,
Lovely Professional University,
Phagwara, Punjab.

Date :

ACKNOWLEDGEMENT

TABLE OF CONTENTS

CHAPTER 1 – INTRODUCTION

This system is named as Whissing Wheels Car Rental System. This system is designed to help the customers to take Cars on rent. Using this system vehicle owner can register as customers who want to take cars or mini-vans on rent, can register themselves as renters and can take any vehicle on rent. This has one admin account who verifies the registering user and two types of the user account.

Further, this project's utmost priority is quality. To achieve this, vehicles are well maintained and tested for delivering optimum and uninterrupted performance. Team of professionals in the travel business enables this system to design trips that suits to all budgets and preferences of the travelers. In addition, workforce including drivers and administrative staff are well trained to discharge their duties with a lot of efficiency.

This project has a fleet of cars ranging from luxury to budget cabs. While, it offers online cab hire service for corporate houses. And this project claim to offer the best of rates, which are tailor-made depending upon the facilities, availed and offer both intercity and intra-city cab facilities. All cabs have proper permits and documentation so that the clients couldn't be hassled for the lack of documents. However, this project has strategic backup system for any eventuality. Cab drivers are educated, polite, and reliable and are trained to handle acute breakdowns. The cab service includes all categories of cars from luxury to budget.

CHAPTER 2 – Profile of the Problem. Rationale/Scope of the study (Problem Statement)

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 simply vehicle and staff management.

We developed this project to book a car on rent at the fare charges. In present system all booking work done manually and it takes very hard work to maintain the information of booking and cars. If you want to find which vehicle is available for booking then it takes a lot of time. It only makes the process more difficult and harder. This aim of the project is to automate the work performed in the car rental management system like generating daily bookings, records of car or cab available for booking, record of routes available, rental charges for cars for every rout, store record of the customer. Car rental management system is a car booking software that provides a complete solution to all your day-to-day car booking office running needs. This system helps you to keep the information of Customer online.

CHAPTER 3 - Existing System

3.1- Existing Software

In this system user (or) client will directly interact with the car owner and owner will decide whether the car is available or not. Then if it is available, he will give rent a car to the customer. The main drawback of this system is customer need to meet the car owner. The Person appointed needs to look after the assigning and movement of cabs. Authorized person maintains the transportation details in papers, which is a tedious task if any updations or changes need to be done.

Ø Details are stored in Papers.

Ø Maintenance is a huge problem.

Ø Updation, changes in details are a tedious task.

Ø Performance is not achieved up to the requirements.

3.2- New in the system to be developed.

In the Previous System, details are Stored Manually in papers, to share the details between employees was a Financial drawback. Updations in the details is a tedious task.

But a new system was proposed to overcome the above drawbacks.

Functionalities and advantages of proposed system are:

Ø Data is Centralized which has overcome the Sharing problem in previous system.

Ø As data is Maintained electronically, it’s easy for a person to update the details, which has overcome the tedious updation in previous system.

Ø Maintenance is easy and performance is good.

Ø Mainly the system has automated the Transportation Process.

CHAPTER 4 - Feasibility Report

4.1 - Feasibility Report

Preliminary investigation examines project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economic Feasibility

4.2 - Technical Feasibility

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'. The current system developed is technically feasible. It is a web-based user interface for audit workflow at NIC-CSD. Thus, it provides an easy access to the users. The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be granted based on the roles specified.

4.3 - Operational Feasibility

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational

feasibility aspects of the project are to be taken as an important part of the project implementation. mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So, there is no question of resistance from the users that can undermine the possible application benefits.

4.4 - Economic Feasibility

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economic feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

CHAPTER 5 – Design

5.1 - DATA FLOW DIAGRAMS.

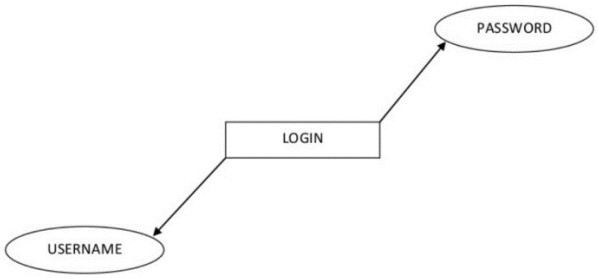

Figure 1: Login Flow chart Diagram.

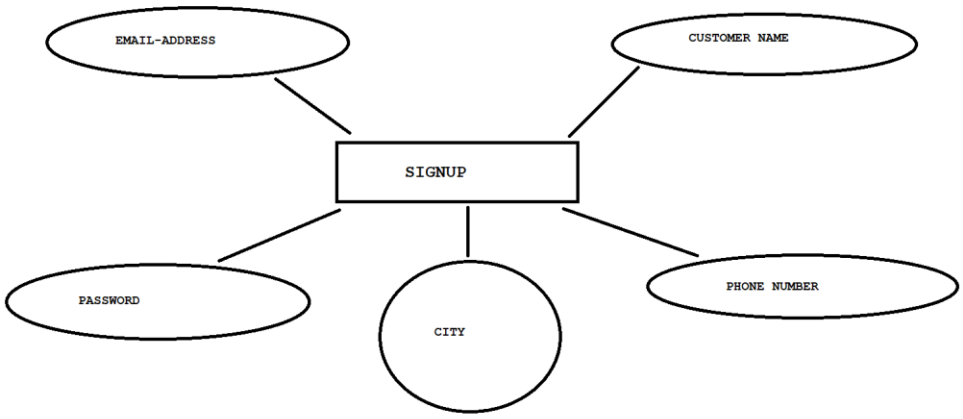

Figure 2: Signup Flow chart Diagram.

5.2 – MODULE DESIGN.

Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built. Beginning, once system requirement have been specified and analysed, system design is the first of the three technical activities -design, code and test that is required to build and verify software.

The importance can be stated with a single word "Quality". Design is the place where quality is fostered in software development. Design provides us with representations of software that can assess for quality. Design is the only way that we can accurately translate a customer's view into a finished software product or system.

CHAPTER 6 – System Snapshots

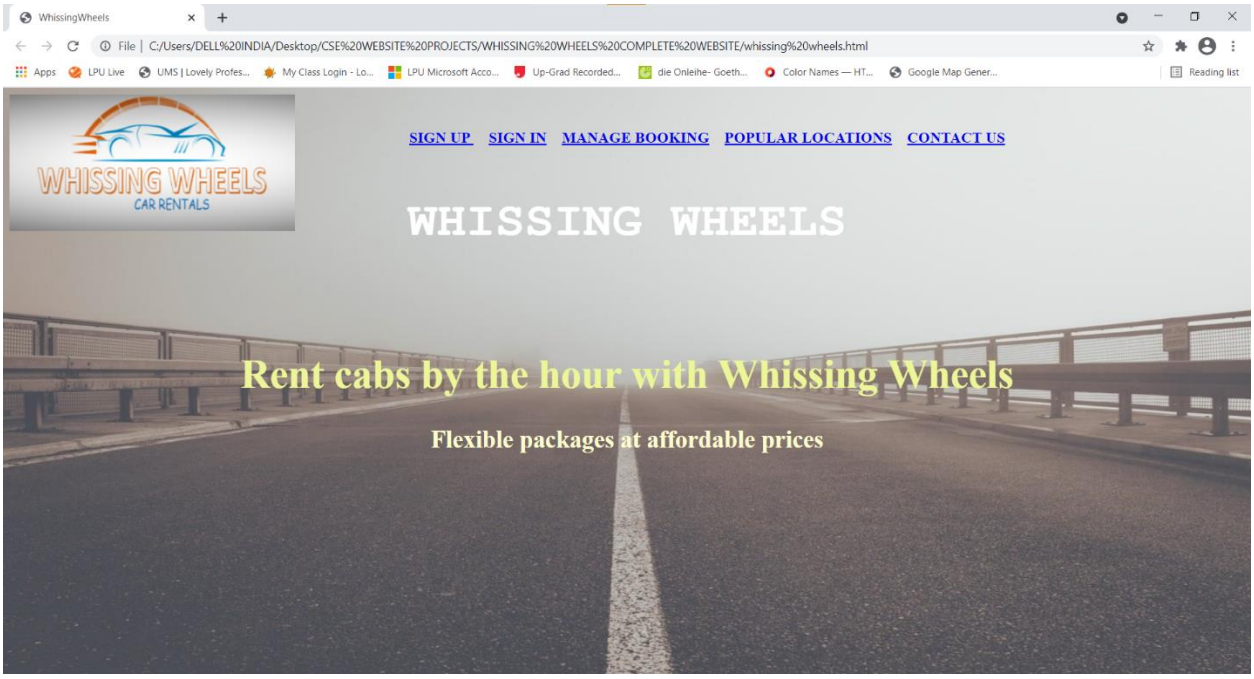

Figure 1: Home Page.

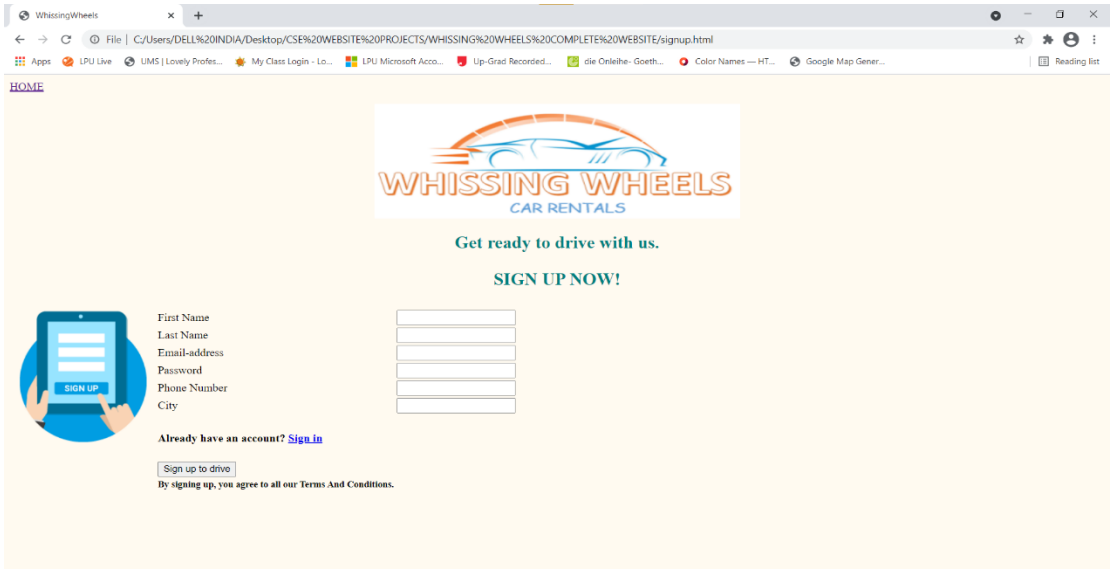

Figure 2: Sign Up.

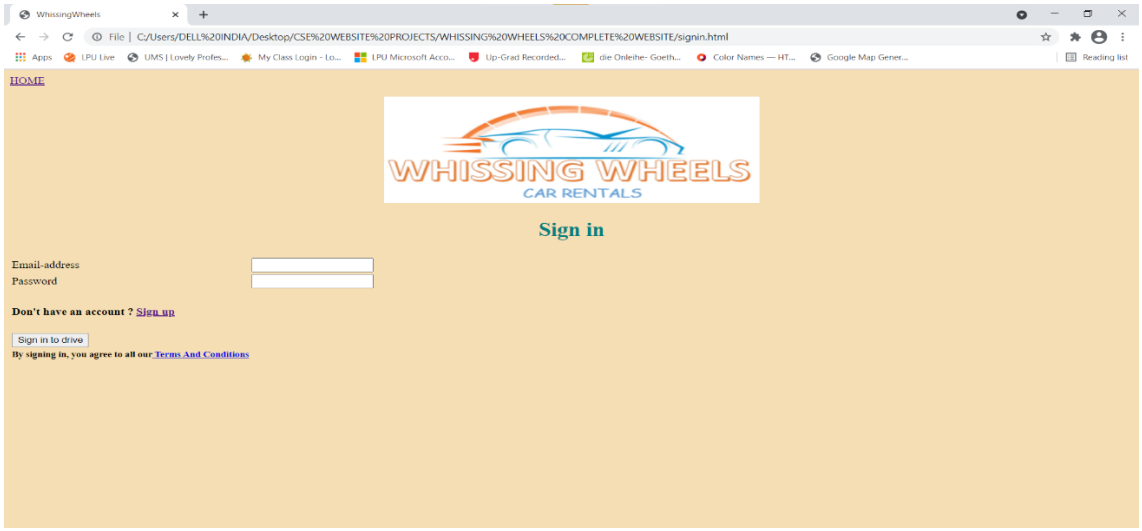

Figure 3: Sign In.

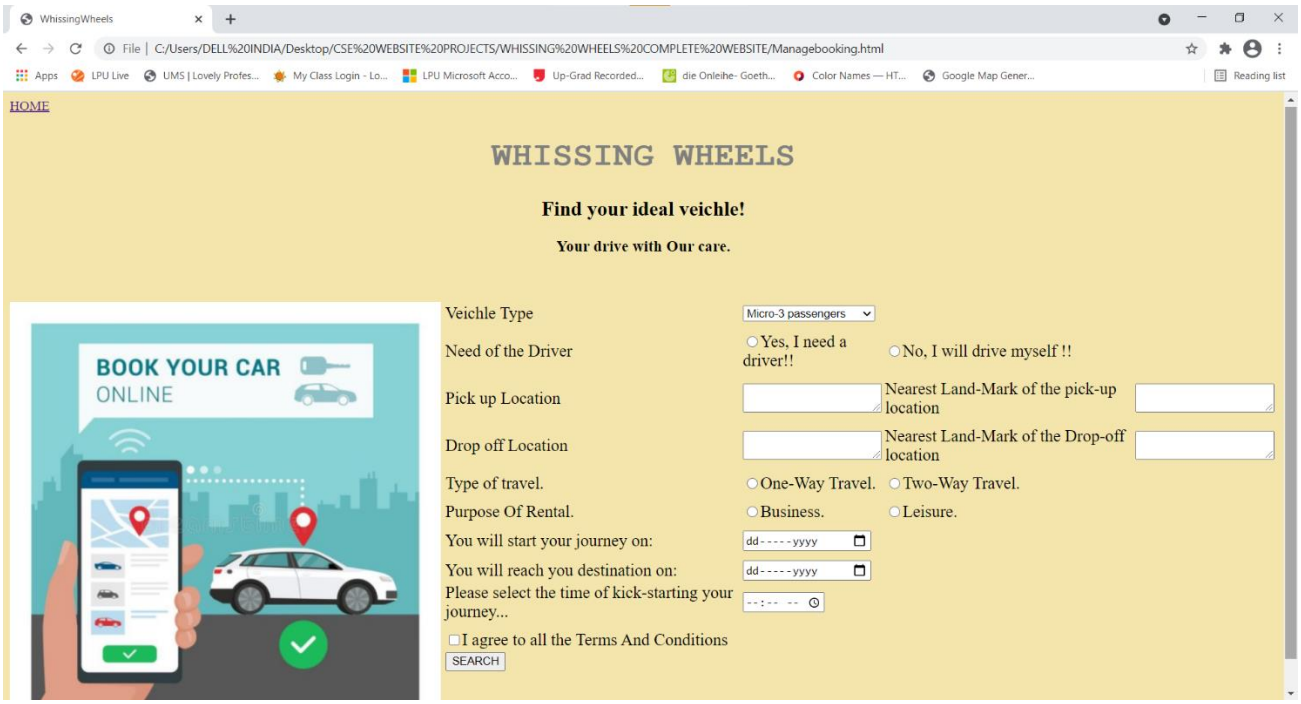

Figure 4: Manage Booking.

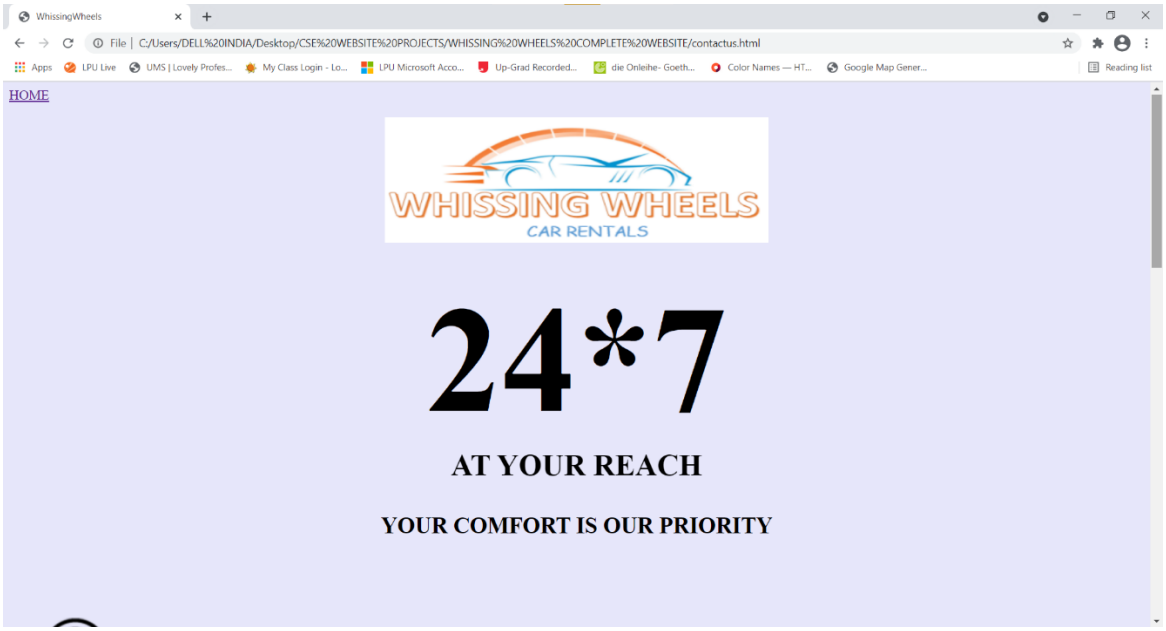

Figure 5: Contact Us (1).

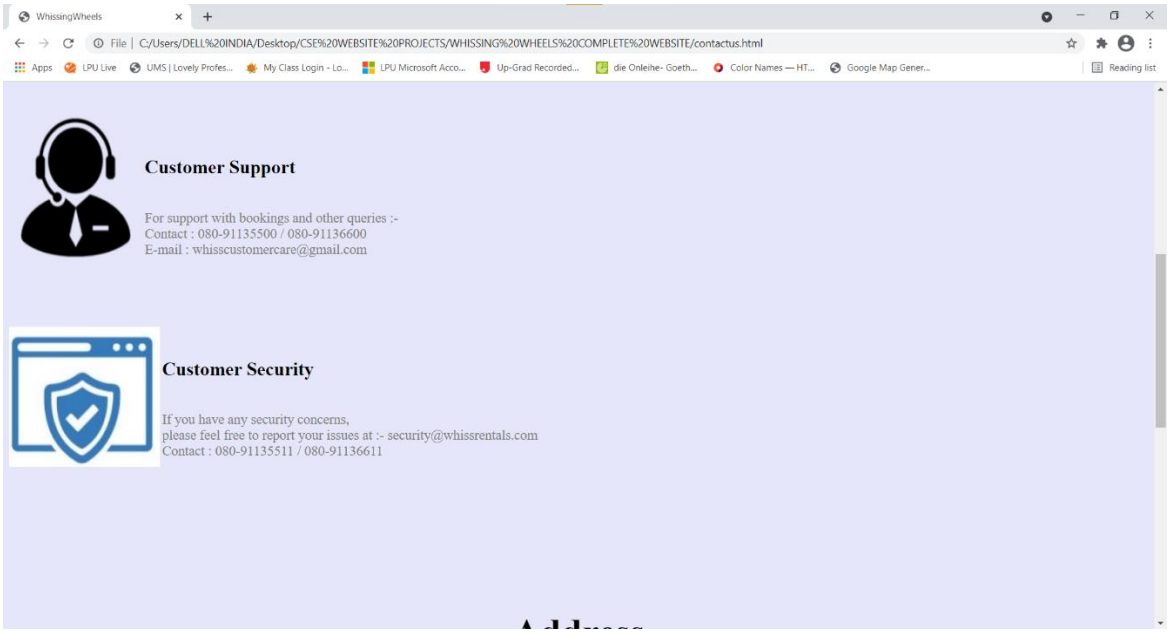

Figure 6: Contact Us (2).

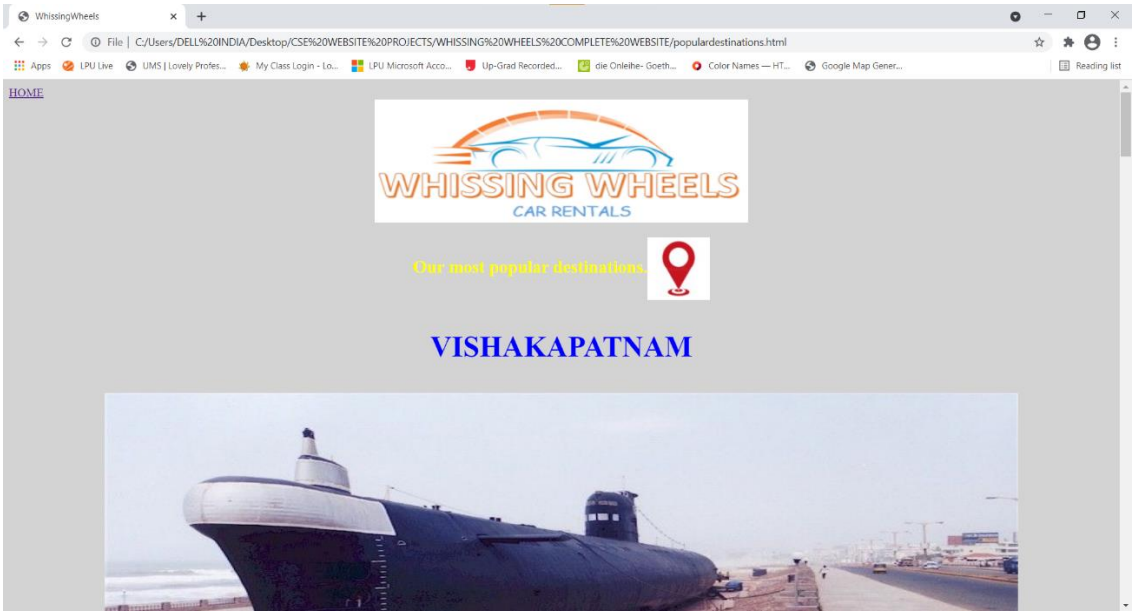

Figure 7: Popular Locations (1).

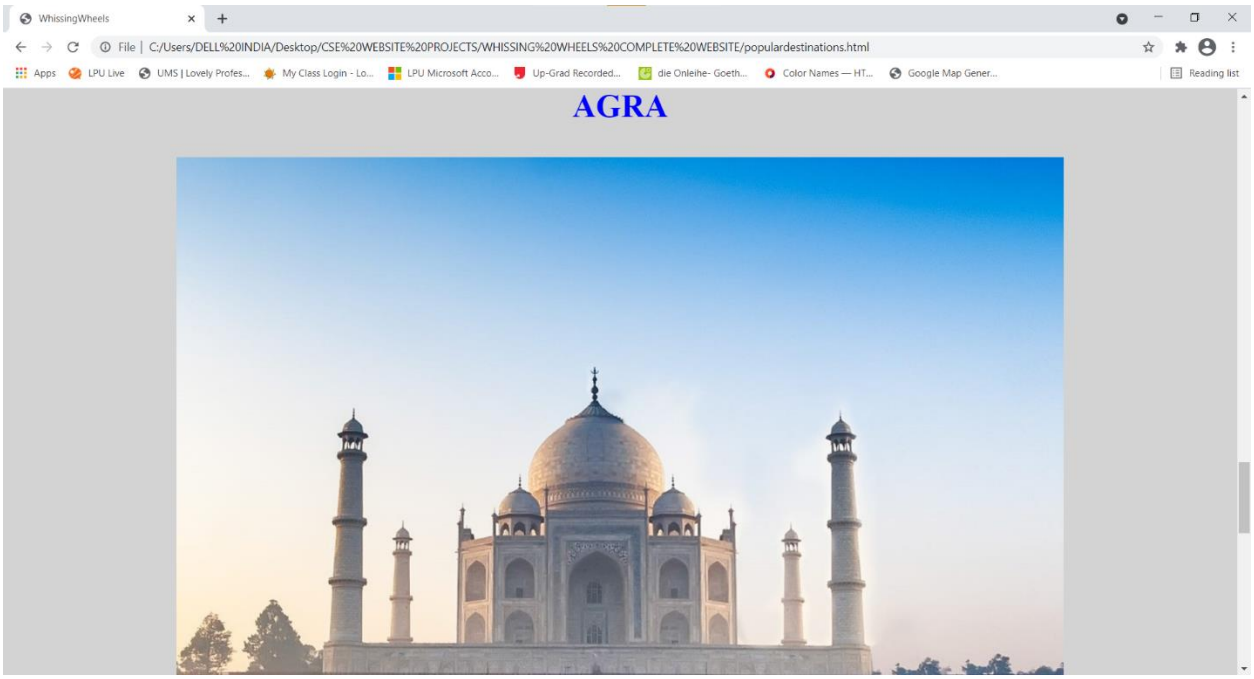

Figure 8: Popular Locations (2).