“Industry Visit Planning and Booking System”

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INDUSTRIAL VISIT PLANNING AND BOOKING SYSTEM

1. ABSTRACT

Industry Visit Planning and Booking System is a particular e-framework intended to make it simpler for individuals or schools to book modern visit bundles on the web. The most significant piece of the industry visit venture is its database. The database is loaded with Industries Information, Official employees, and other information.

2. INTRODUCTION

The Primary objective of this system is to plan and execute the Industrial Visit programmed in an effortless way. There are some objectives that we have kept in mind.

PRACTICALLY: The system is quite stable and can be operated by people with average intelligence.

EFFICIENCY: We tried to involve accuracy, timeliness, and comprehensiveness of the system output. strategy.

2.1 MOTIVATION

The Industrial Visit experience which I had made me do this project. We have tried to satisfy all the requirements that have to be taken care of during the planning and booking phase of Industrial Visit.

2.2 PROBLEM STATEMENT

In India, we as students and organizations use several types of products. It may be packaged foods, dairy products, automobiles, and many more products in our day-today life. In this day-to-day life, many of us think about how the product is made and what are the processes which are followed while making such products for us. Such people want to know but there is no option or any framework where these persons can

visit major Industries of their wish. The main problem was that the people did not have the relevant information required for the Industry Visit and they found this process harder.

2.3 PURPOSE/OBJECTIVES/GOALS

- The main purpose of this project is to connect a group of individuals and organizations with industries.

- The other important thing we have built this website is to cut down the time and efforts required by the individuals and organizations in booking their visits.

- The purpose of this project is to provide an online framework to book slots for individuals and organizations who are having problems in slot booking for industrial visits.

2.4 LITERATURE SURVEY

Customer Registration function: Customers could book slots after they login on the system. The registration information includes user's name, user's email address, phone number.

Customer search function: Customers can come on the website and search for specific industries as needed. When they search for the specific industry name then the system will return relevant information to the user, including the information about the company and the option to book their visit. Customers or the users can only book their visit for the industry or the company only if they have registered or have login in themselves on the system. The user could also book their visit for a group of peoples as well as for individuals.

Customer Contact function: Customers who have login or registered themselves on the system can reach out for help for any queries they have. When they provide any queries

or ask for help from the contact us page, the system connect the user's concern/queries with the admin team who further helps out the user in solving the queries.

Customer cancellation function: According to the customer's cancellation request, the system could complete the cancelling operation, delete the user's registration information from the table in the database.

2.5 LIMITATION AND SCOPE

Project Scope:

Nowadays, students and organizations struggle to plan and book their slot for their Industrial Visit, and they are much worried about the execution of plans. This project helps them to successfully book their visit without going through a complicated process of finding the details about the industry from different websites and then confirming their visit.

Project Limitations:

Although this project is incredibly good if used in a proper way, on the other hand the project also has some limitations. If the details provided by the user are not correct on the framework, then he/she might face difficulties in the further steps.

Currently, our system does not provide any mode where people, after booking their slots for the visit, can also book the tickets through which they can travel at the desired industry visit without giving any extra efforts to go to the travel agents.

3. SYSTEM ANALYSIS

3.1 EXISTING SYSTEM

In the existing system of Industrial Visit planning and booking the individual needs to personally find all the information needed to contact the companies and must wait for a long time to effectively communicate and to further plan the trip along with ticket booking. There is a big delay in the exchange of messages and information as the

individual had to wait for the company to revert and provide further information. In short planning Industrial visit and ticket booking will not be so easy and convenient.

3.2 SCOPE AND LIMITATIONS OF EXISTING SYSTEM

- Requires a functioning web association.
- Framework may give wrong outcomes if information is not entered accurately.

3.3 PROJECT PERSPECTIVE, FEATURES AND STAKEHOLDERS

A stakeholder could be a person or organization that has rights, share, claims or interests with regard to the system or its properties meeting their desires and expectations. To place it a lot of merely, the interests of stakeholders have some influence on the project, thus their opinion must always be taken into consideration. If you do not do that and overlook one in every of the key stakeholders, you'll be able to ruin the entire project and it'll be far more expensive than simply possessing a development bug 7 within the project. A stakeholder may be a group or one that has interests that will be suffering from associate initiative or has influence over it. Stakeholders can be found anywhere for a project. Stakeholders provide opportunities and limitations for the system and are the source of requirements.

3.4 REQUIREMENT ANALYSIS

3.4.1 FUNCTIONAL ANALYSIS

- The Admin of the website will be able to manipulate the data associated with the system.
- The user will be able to upload essential information regarding people and help.

- The Admin will be able to upload the content, links and documents to the system.
- The Admin will be able to check the actions done by the user.
- The user will be able to check the data uploaded by other users and admins.
- The user will be able to access the data uploaded by the admin.

3.4.2 PERFORMANCE ANALYSIS

No personal contacts with customers: To build customer relations you can't talk to customers face to face to get real feedback, feedback you receive is through online mode which may not be genuine. Technology is not always reliable, there might be connection or internet problems, energy breaks and other things like that.

3.4.3 SECURITY ANALYSIS

- The data stored for the website will be on less secure servers, so there might be a threat for the user's data.
- Several security measures are taken for the admin controlling the industry section as well as the users.

4 SYSTEM DESIGN

4.1 DESIGN CONSTRAINTS

Design constraints are basically the non-functional requirements of the system or software. The different types of non-functional requirements are:

- Use of captcha and encryption to avoid bots from booking tickets.
- Search results should populate within acceptable time limits.

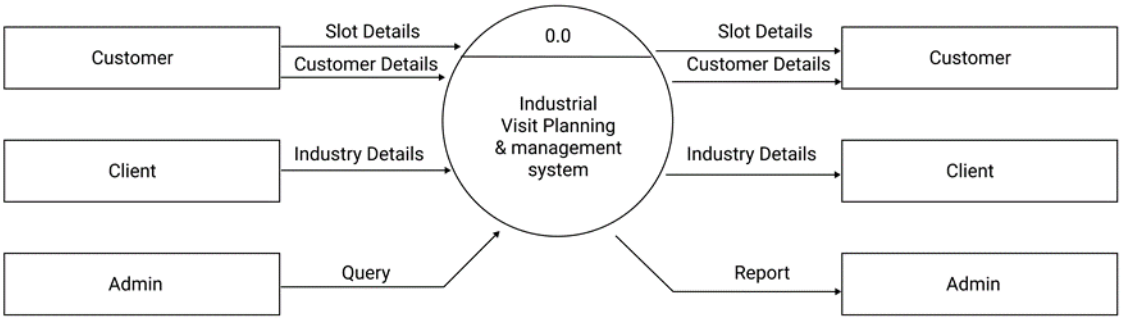
- User should be helped appropriately to fill in the mandatory fields, in case of invalid input.

- System should accept payments via different payment methods, like PayPal, wallets, cards, vouchers, etc.
- System should visually confirm as well as send booking confirmation to the user's contact.

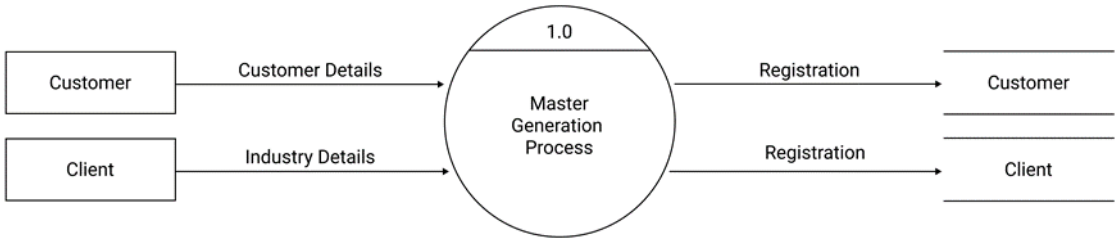
4.2 SYSTEM MODEL

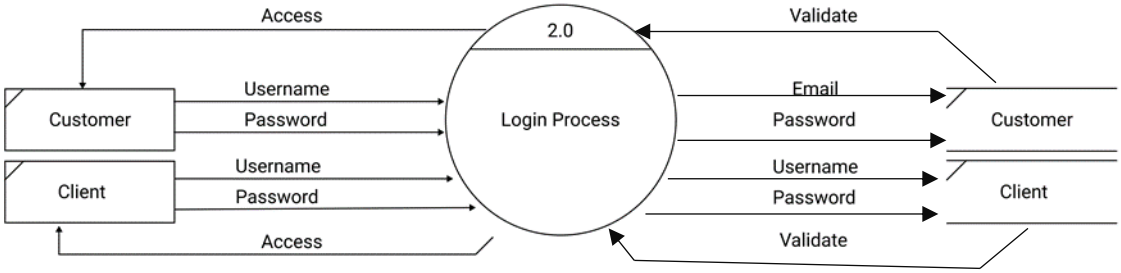
4.2.1 DATA FLOW DIAGRAM

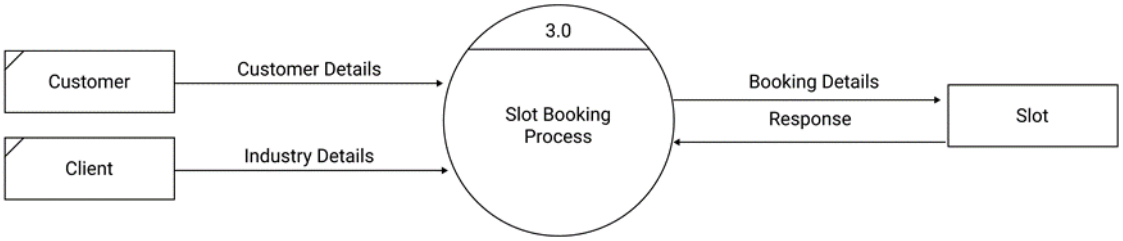
4.2.1.1. Context Level Diagram

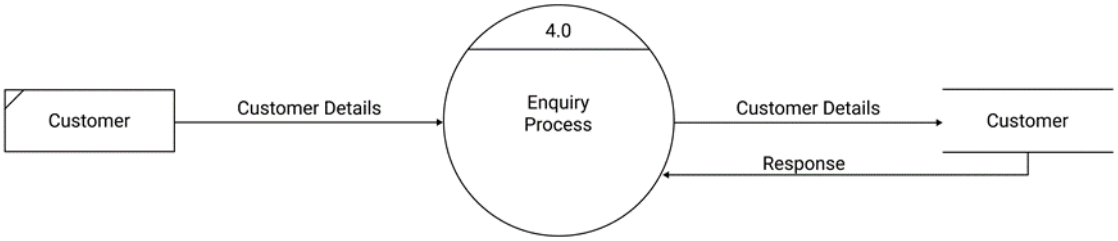


4.2.1.2. First Level Diagram

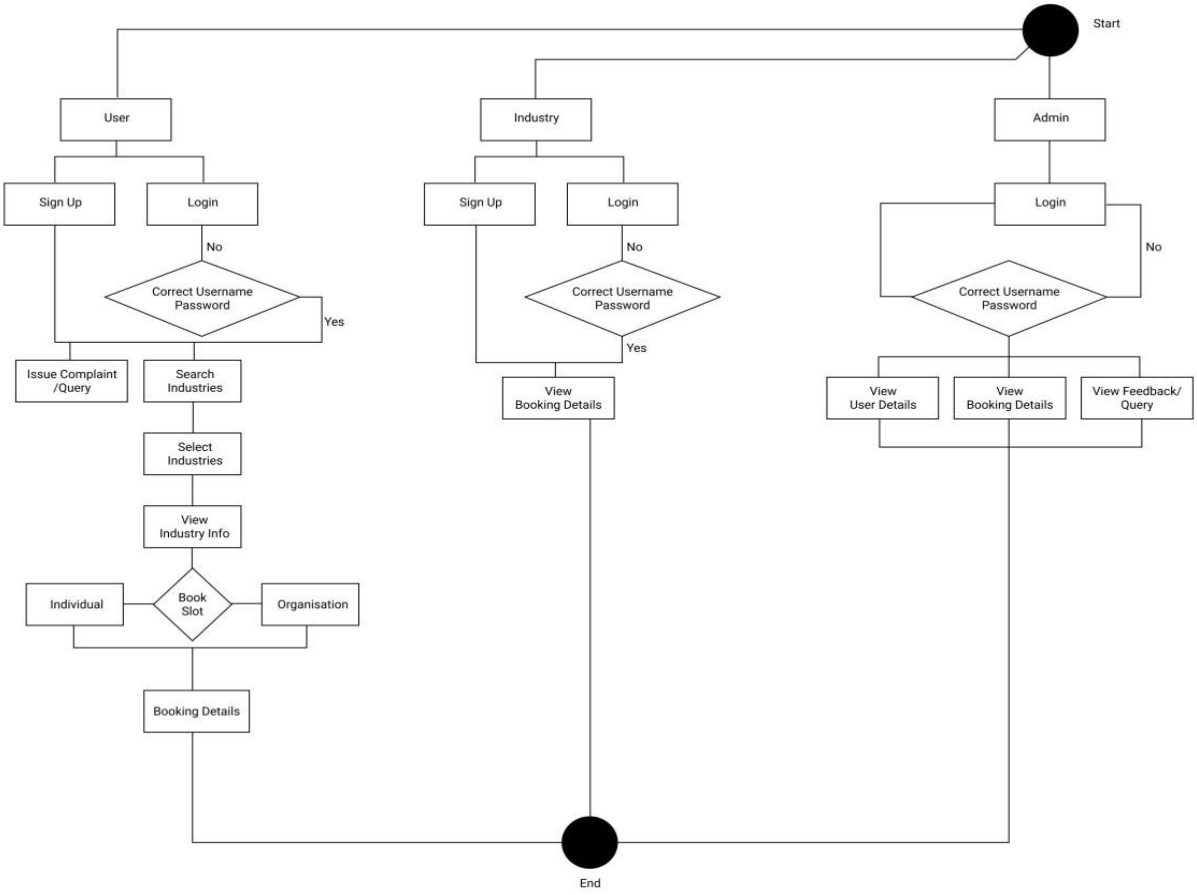



Access
2.0
Validate
Customer
Username
Password
Login Process
Email
Password
Customer
Client
Username
Password
Username
Password
Client
Access
Validate

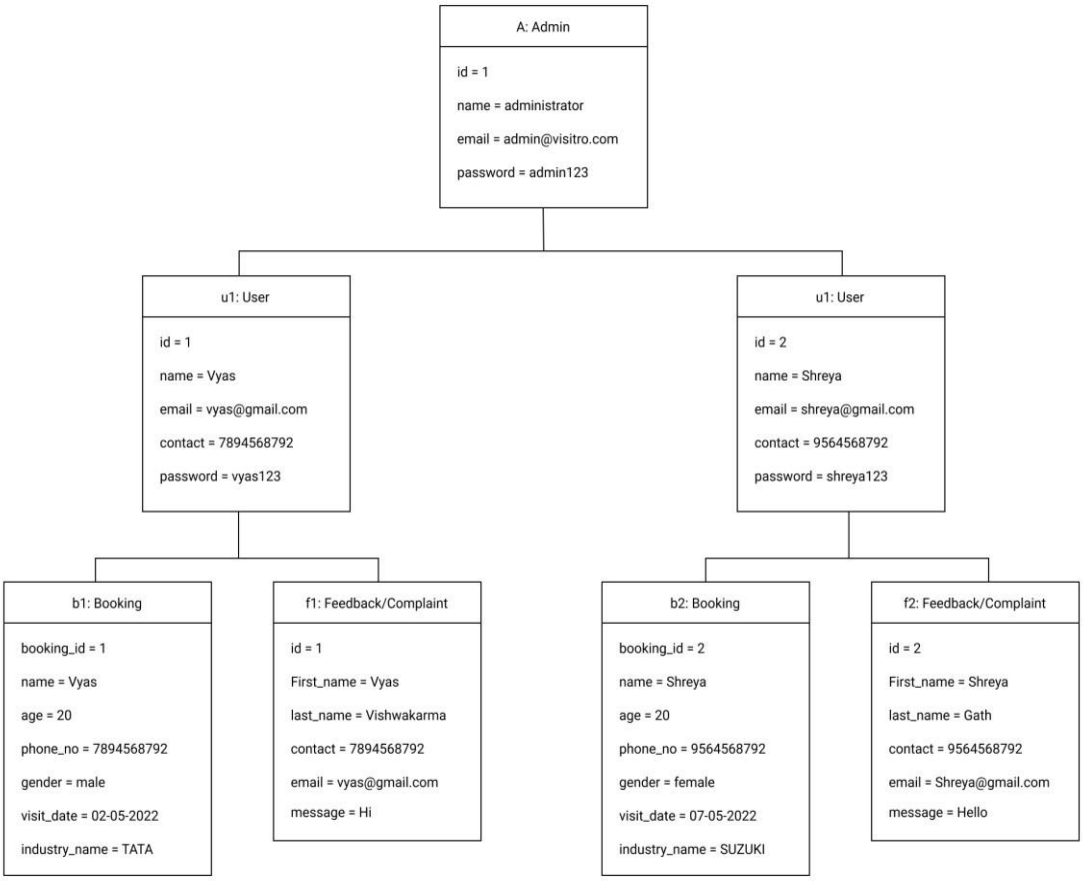

3.0
Customer
Customer Details
Booking Details
Slot Booking Process
Response
Slot
Client
Industry Details


4.0
Customer
Customer Details
Enquiry Process
Customer Details
Customer
Response

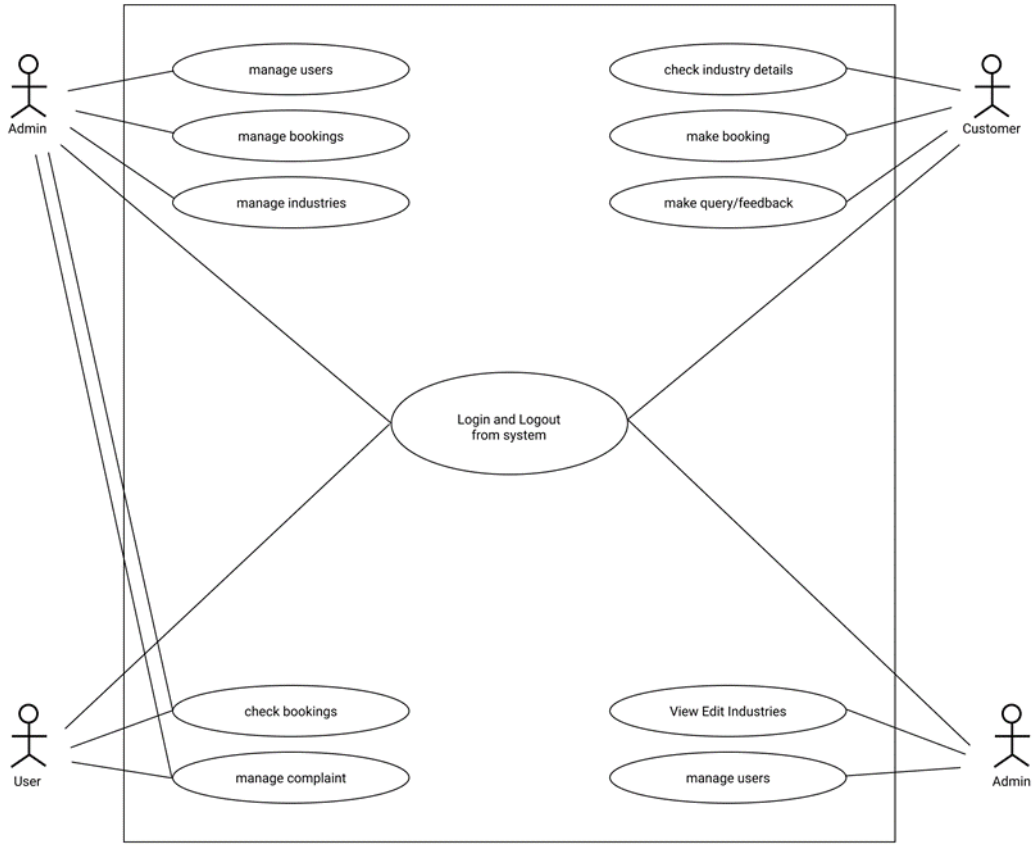
4.2.2 User Activity Diagram



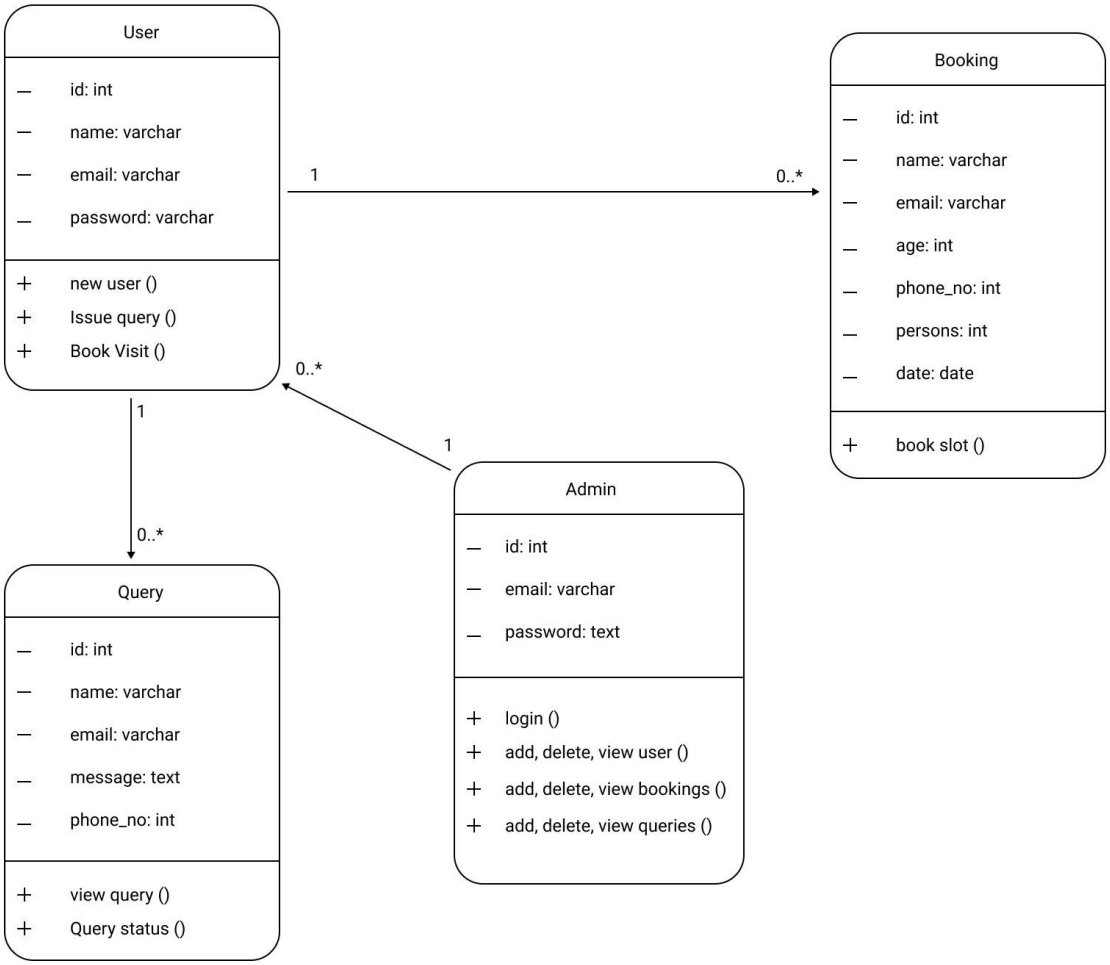
4.2.3 UML Object Diagram



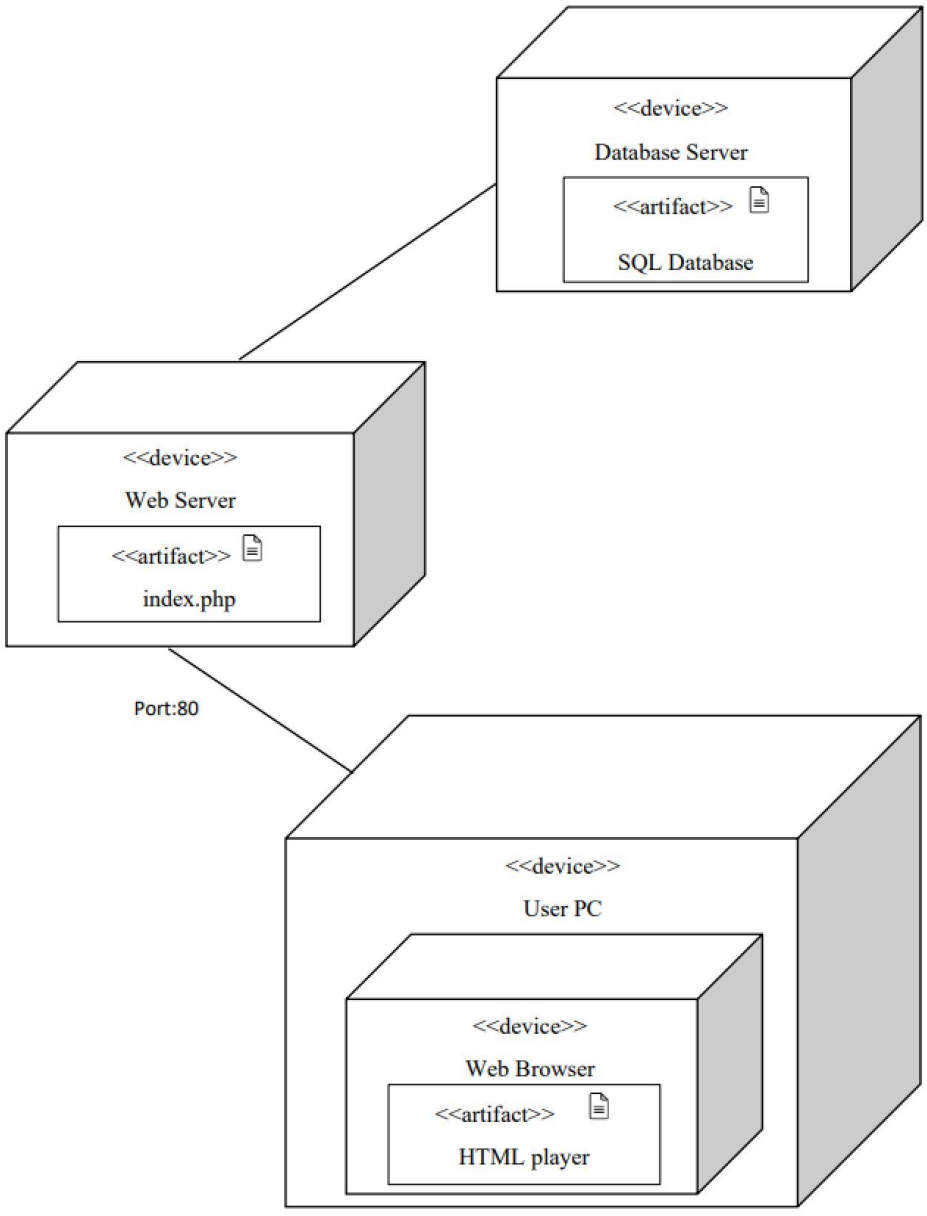
4.2.4 UML Use Case Diagram



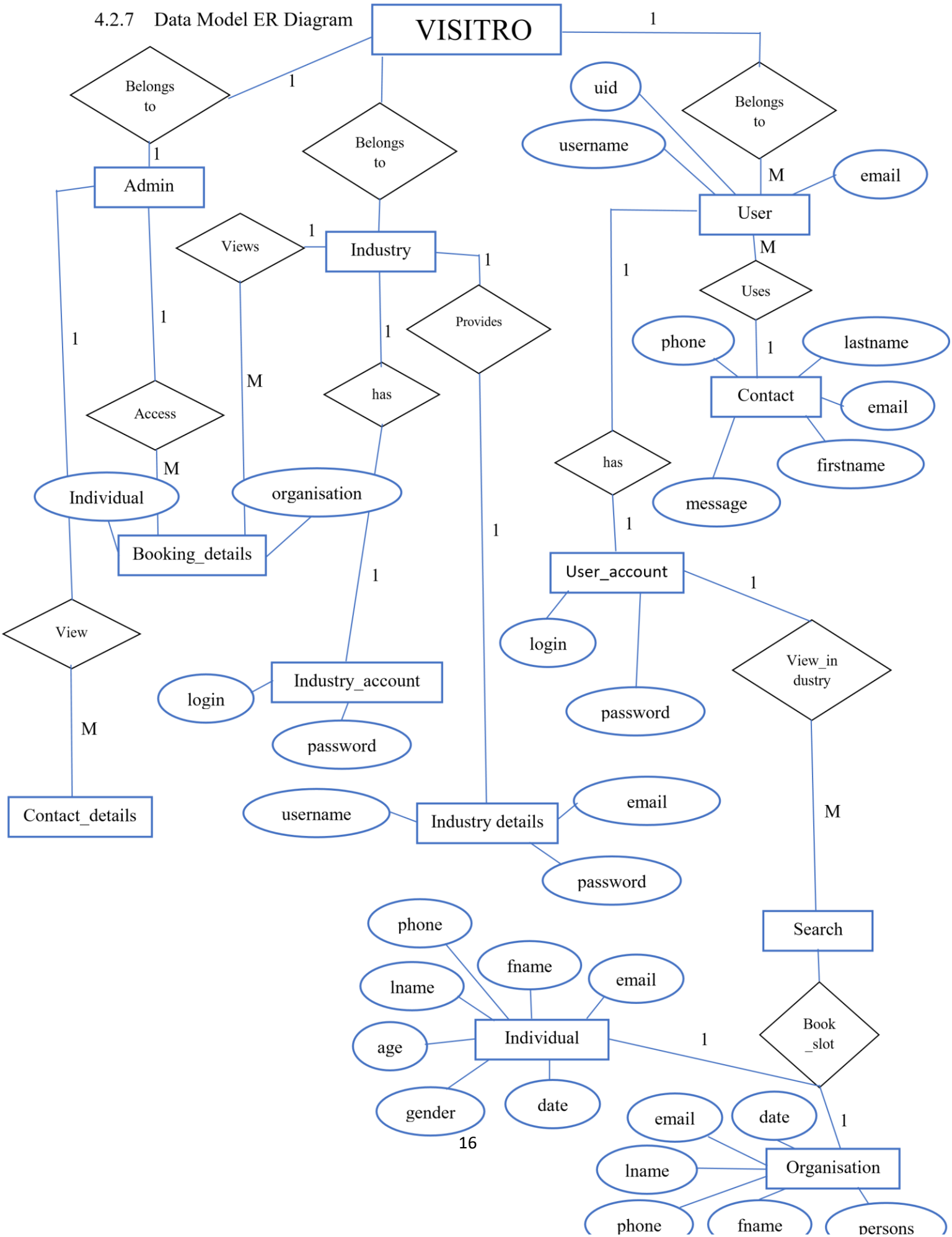
4.2.5 UML Class Diagram



4.2.6 UML Deployment Diagram

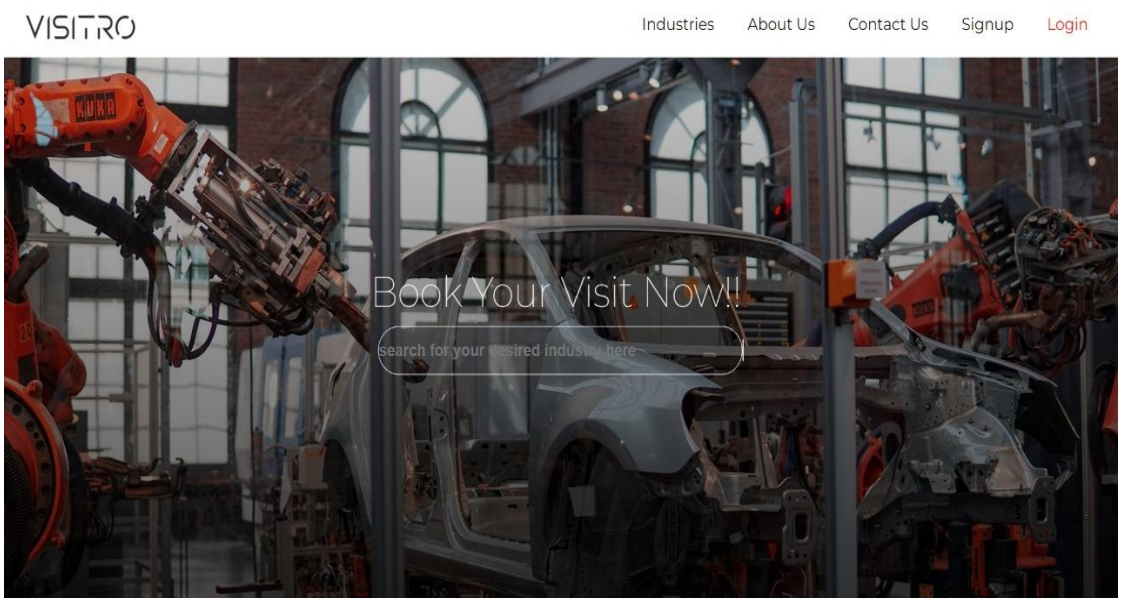


4.2.7 Data Model ER Diagram

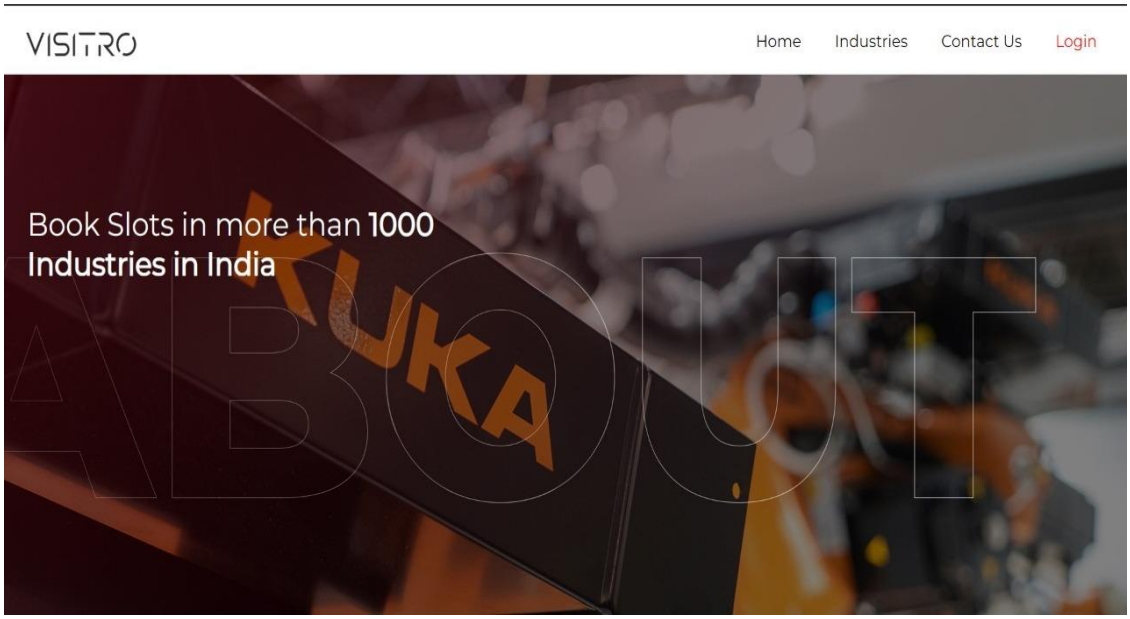


4.1 USER INTERFACES

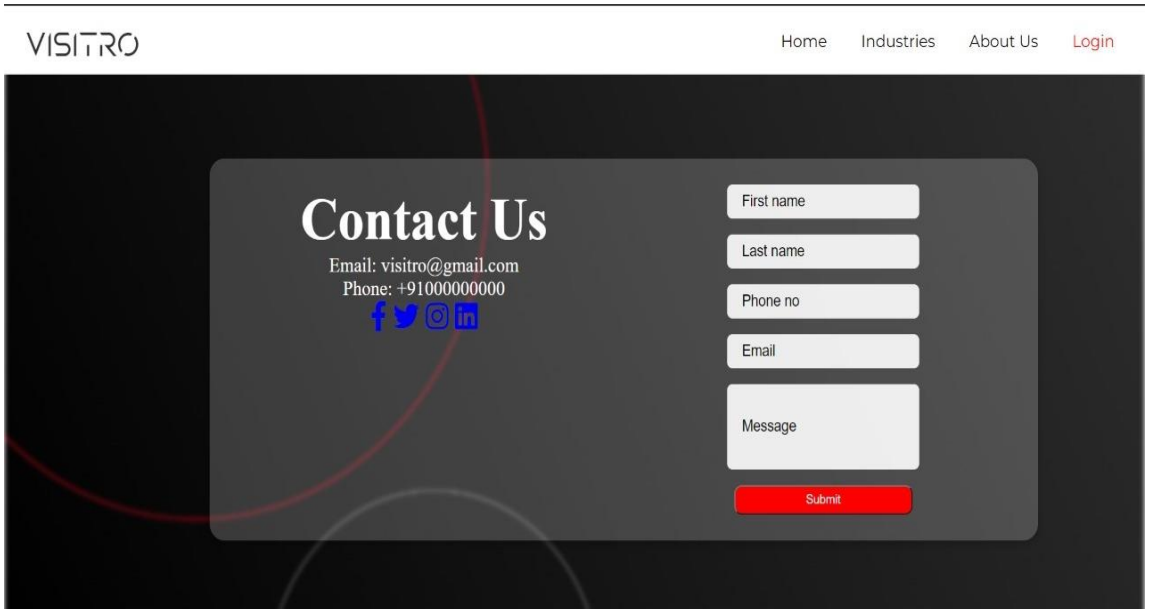
- Home Page



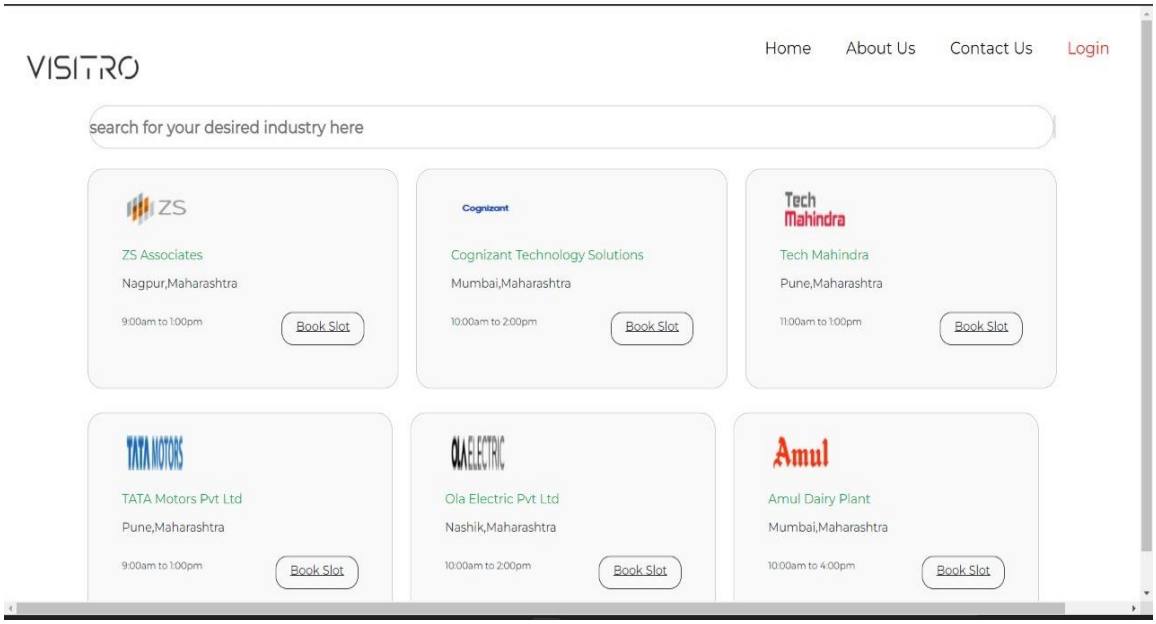
- About Us Page



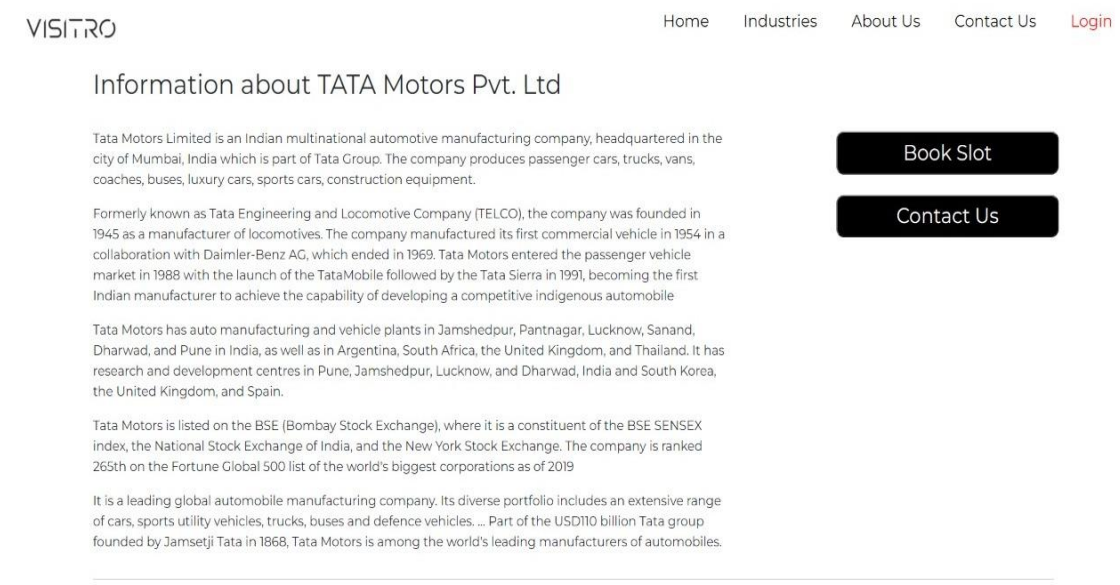
- Contact Us Page



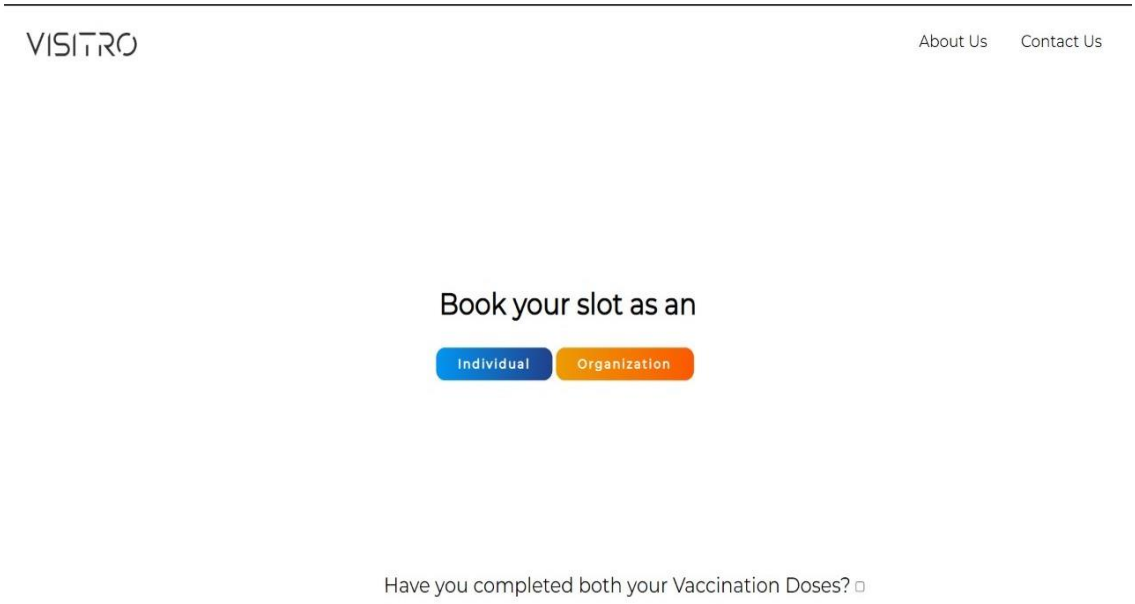
- Industries Page



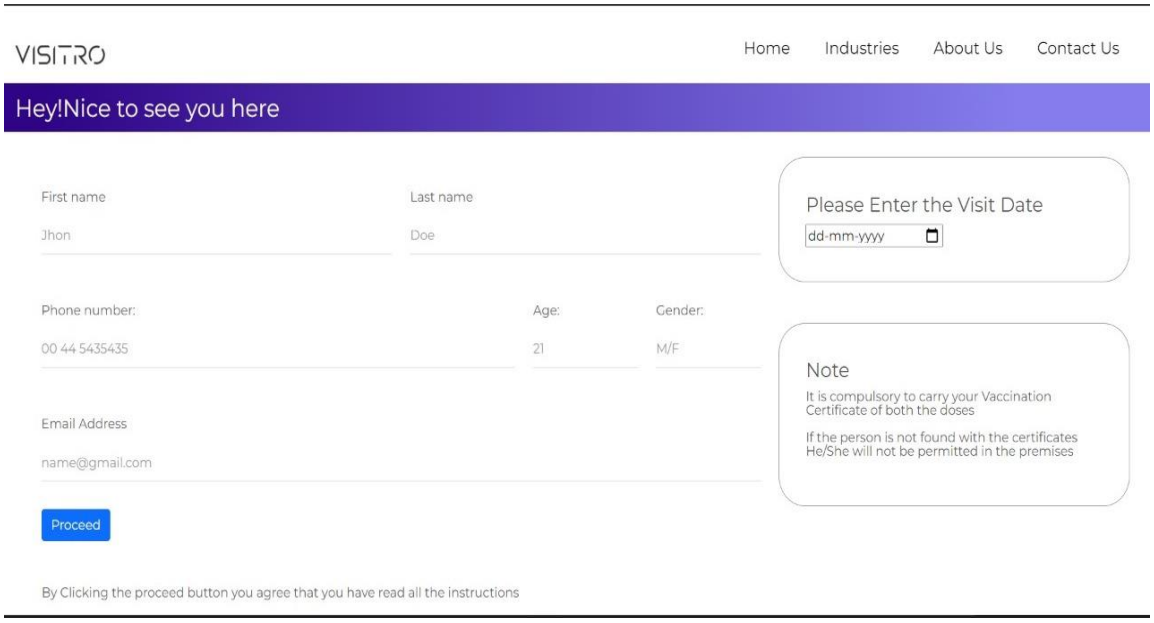
- Industry Information Page



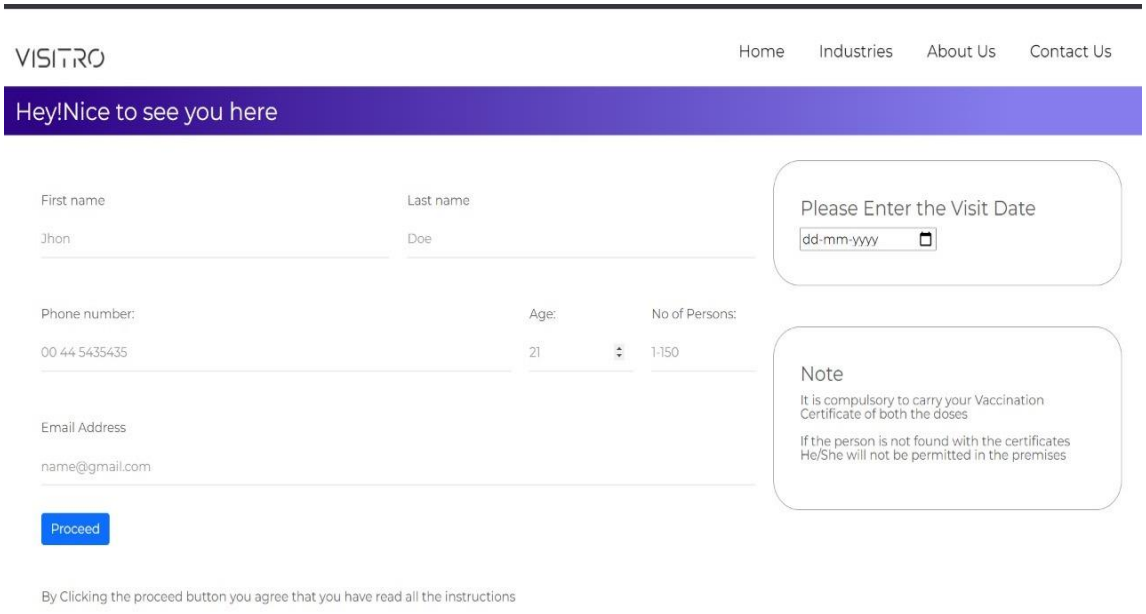
- Slot Booking Page



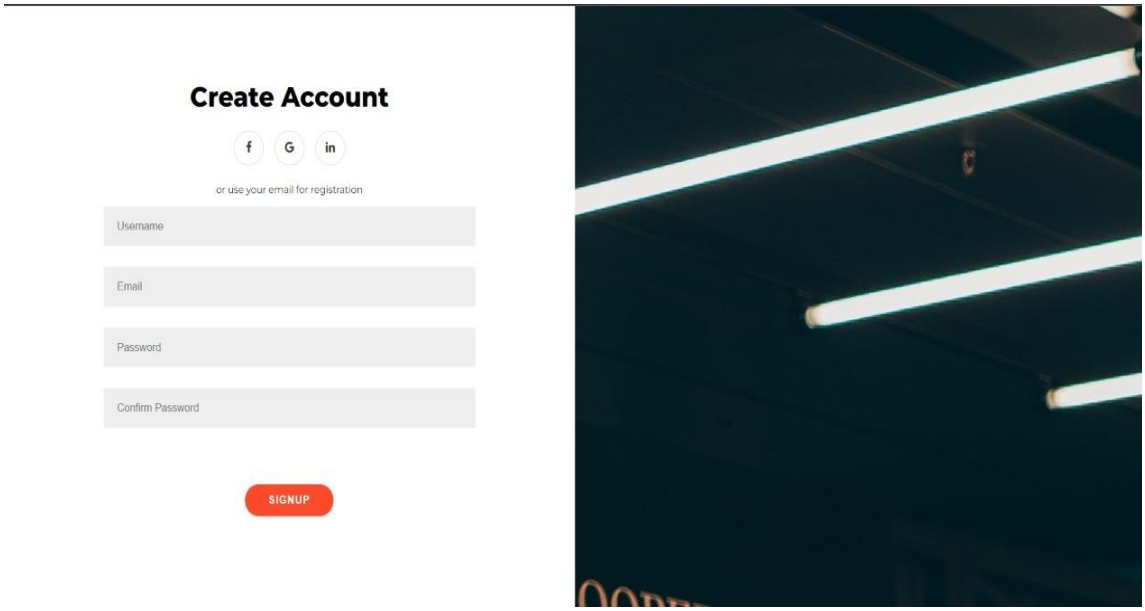
- Individual Booking Page



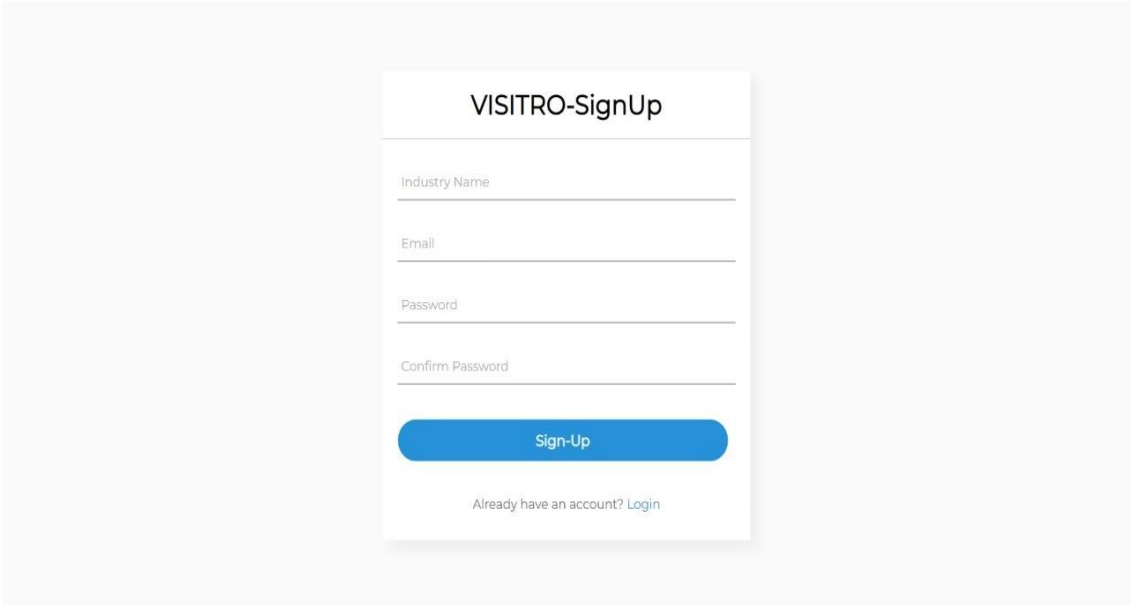
- Organization Booking Page



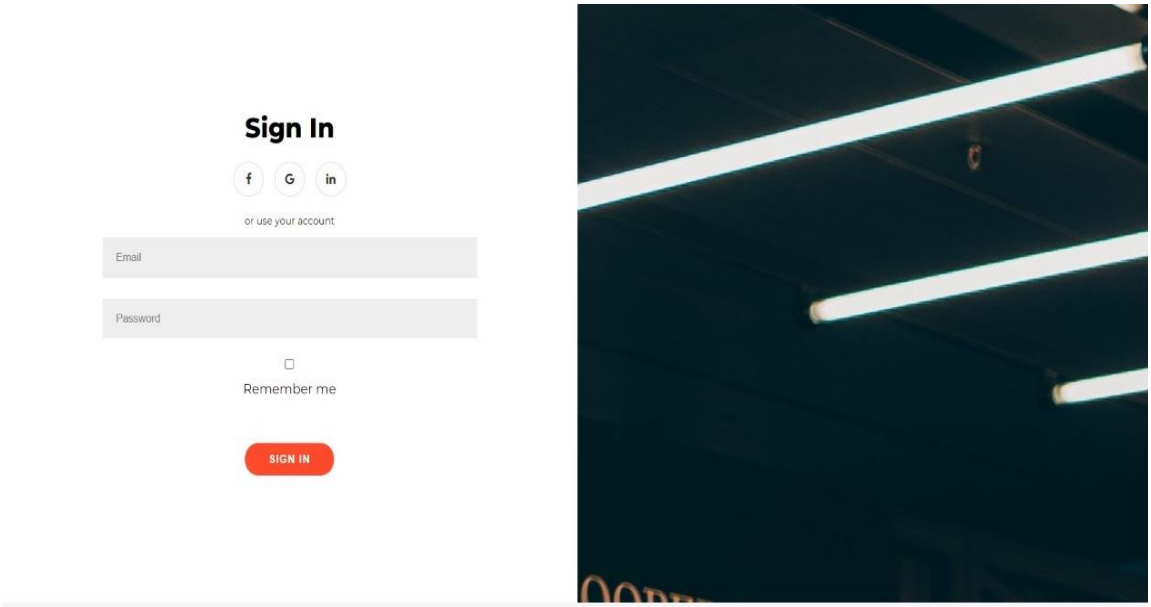
- User Signup Page



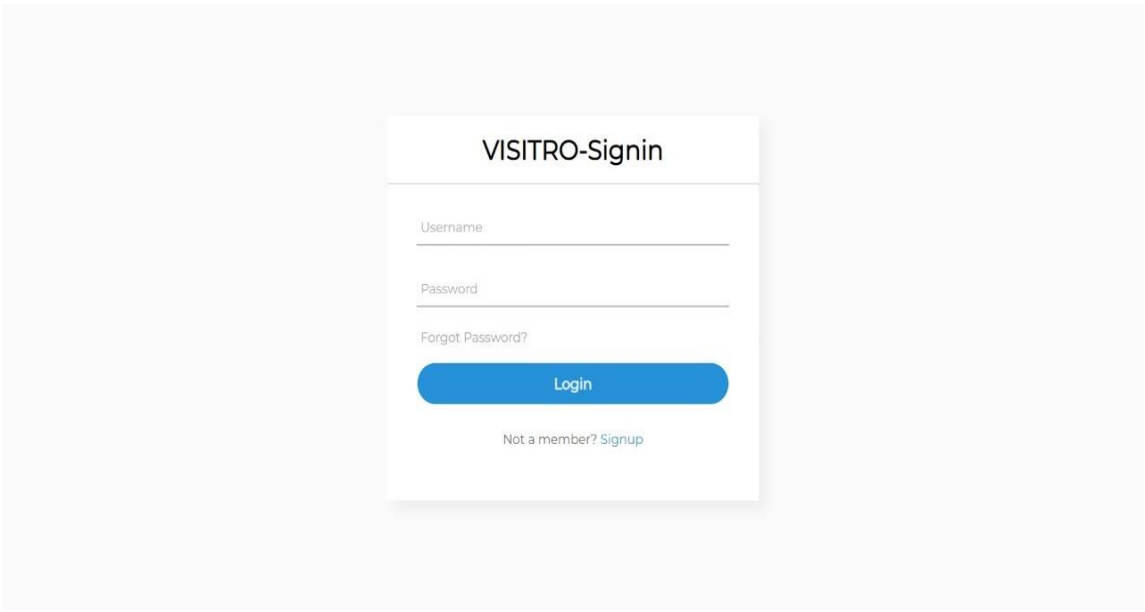
- Industry Signup Page



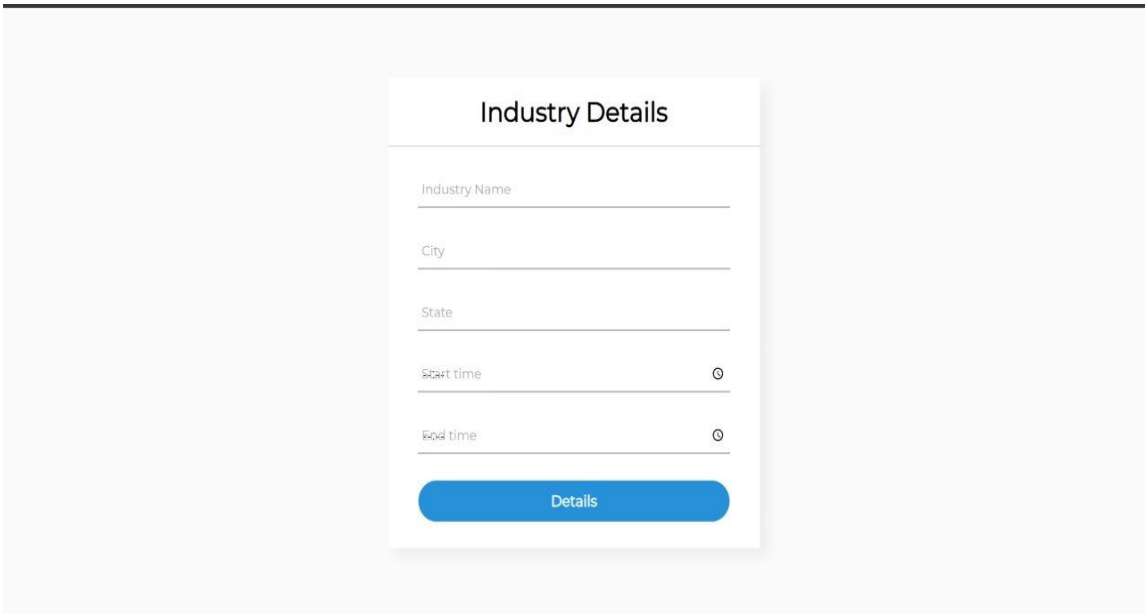
- User Login Page



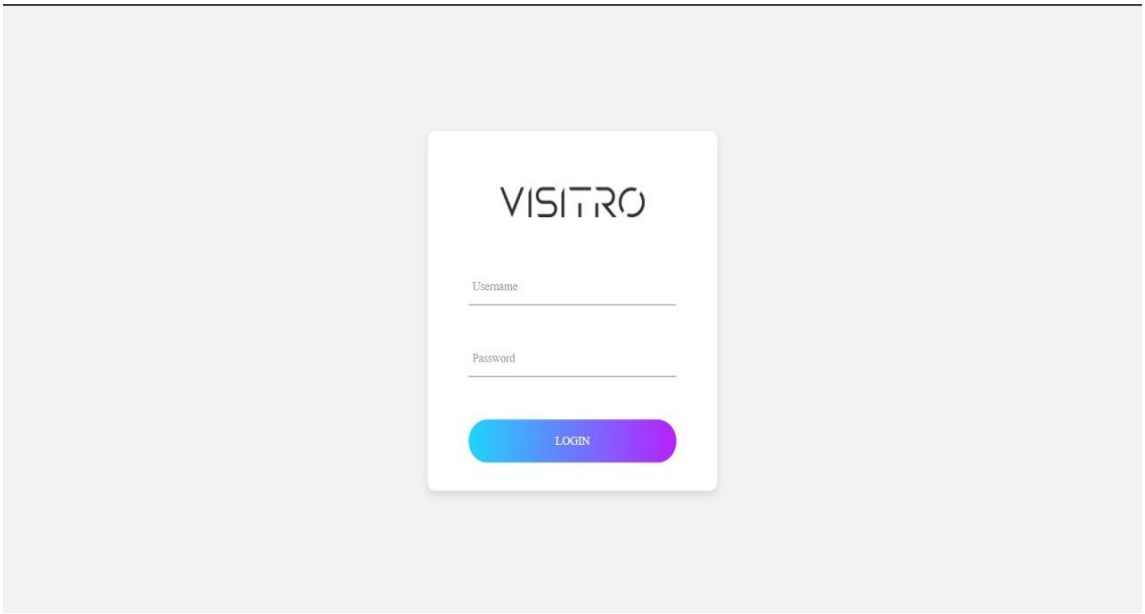
- Industry Login Page



- Industry Details Page



- Admin Login Page



5 IMPLEMENTATION DETAILS

5.1 HARDWARE AND SOFTWARE SPECIFICATIONS

Software Requirement	
Operating System	Microsoft windows
Software	
Front –End Software	Visual Studio
Back-End Software	MySQL
Hardware Requirement	
Processer:	Intel core i3 1.80GHZ
RAM:	2GB or More
Monitor:	LCD monitor
Keyboard:	Normal keyboard
Mouse:	Compatible mouse

6 OUTPUT AND REPORT TESTING

6.1 TEST PLAN

The most important phase in system development life cycle is system testing. The number and nature of errors in a newly designed system depends on the system specification and the times frame given for the design.

A newly designed system should have all the subsystems working together, but in reality, each subsystem work independently. During the phase, all the subsystems are gathered into one pool and tested to determine whether it meets the user requirements.

Testing is done in two level-Testing of individual modules and test the entire system. During the system testing, the system is used experimentally to ensure the software will run according to the specification and in the way the user expects. Each test case is designed with the intent of finding errors in the way the system will process.

Testing is vital to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct; the goal will be successfully achieved nontesting leads to error that may not appear until months later. This creates two problems.

- The time lag between the cause and appearance of the problem.
- The fault of system error on files and records within the subsystem.

Unit Testing:

Testing of individual programs or modules is known as unit testing unit testing is done both during documentation and testing phase unit testing focuses on verification of effort on the smallest of software design modules using the detailed design description as a guide important control parts are tested to uncover errors within the boundaries of the unit testing focuses on verification of effort on the smallest of software design modules using the detailed design description as a guide important control parts are tested to uncover errors within the boundaries of the module. The relative complexity is test and errors detected as a result are limited by the constraints scope established for unit testing unit testing is always white box oriented and the step can be conducted in parallel for multiple modules.

Integration Testing:

Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit - state modules and build a program structure that has been dedicated by design. Careful test planning is required to determine the extent and nature of system testing to be performed and to establish criteria by which the result will be evaluated.

All the modules were integrated after the completion of unit test. While Top – Down integration was followed, the modules are integrated by moving downward through the control hierarchy, Beginning with the main module. Since the modules were unit - tested for you no errors, the integration of those modules was found perfect and working fine. As the next step to integration other modules were integrated with the former modules.

Validation Testing:

The most common web application security weaknesses it's the failure to properly validate Input coming from the client or environment before using it the weakness leads to almost all the major vulnerabilities in web application such as cross site scripting SQL injection, interpreter injection.

Data from an external entity or client should never be trusted, since it can be arbitrarily tampered with by an attacker. validation doesn't judge the mean putting your pages through some web driven testers. It also means test driving it with friends, relatives, coworkers and strangers. Everyone has a different system and way of working, so ask others to test your styles or themes before you make them public.

6.2 BLACK BOX TESTING/ DATA VALIDATION TEST CASES

Black box testing also called as behavioral testing focuses on the functional requirements of the software. That is, black box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black box testing focuses on the fundamental requirements of software and on input and output of the module. It enables the software engineers to derived a set of input conditions that will truly exercise all functional requirements of a program. Black box testing is rather a contemporary approach that is likely to uncover different classes of errors.

It attempts to find errors in the following category:

- Incorrect and missing functions.
- performance errors.
- initialization and termination errors.

6.3 WHITE BOX TESTING/FUNCTIONAL VALIDATION TEST CASES

White box testing is a test case method that uses control structure and procedural design to drive test cases using white box testing method. Software engineer can test cases that:

- Exercise all logical decisions on their true or false sites.

- Guarantee that all independent paths with module have been exercised at least once.
- Exercise internal data structure to ensure validity.
- Execute all loops at their boundaries and their operational bounds.

White box testing, sometimes called glass box testing is a test case design method that uses the control structure of the procedural design to derive test cases.

using whiteboards testing methods the software engineer can derive test case that guarantee that all independent paths within a module have been exercised at least once exercise all logical decisions on the true and false sides execute all loops at their boundaries and within their operational bounds, exercise internal data structure to ensure their validity. “Logic errors and incorrect assumptions are inversely proportional to the profitability that a program path will be executed”.

7 CONCLUSIONS AND RECOMMENDATIONS

Conclusions:

This document proposes the web based online system which is time saving for the customers by booking the Industrial Visit through online. This system is designed using modern system architecture to cope with changing requirement. This web based can further be implemented as a mobile app which can be accessed by the customers to book Industrial Visit online and to have information about the nearby Companies.

The universities around the world book industrial planning are to travel in various with various modes. Imagine a scenario in which there is a web application that can enable the clients to book the mechanical visit using an application? Truly, it is conceivable using a modern visit arranging and booking framework. A few people like to go via train flight bus or by some other methods of transport.

This application is intended for the movement organization in which there is an alternative of doing the Railroad or air ticket reservation so as to arrive at the proposed goal. This is one of the applications that will assist the client with booking the air ticket

or the railroad tickets do this utilization of the movement organization. Booking of tickets will be done without having any trouble. This will be one of the intriguing activities that one can take a shot at and actualize progressively world. The UI must be straight forward and to the point. The clients need not go by and by to the movement offices to book tickets this application will help in getting to the data identified by the movement to the specific goal without breaking a sweat the clients can follow the data identified with their visit without breaking a sweat through this application.

Recommendations:

Many companies have Industry Visit booking portal for them alone. This is
The first ever project that provides a common portal for booking Industrial
Visit for all Companies. This is also associated with forum where other college friends can also do participate in their Industrial Visit trip.

8 FUTURE SCOPE

Today is the age of technology and innovation; you can find technology in every step you take. Whether you're greeted in the morning by notifications on your phone or the school you go to. Technology is in every area of our lives.

The global pandemic has forced many universities to transition the existing system online. Anything from enrolling, school lectures, and graduation ceremonies, many institutes have to use online systems.

Hope in future we may include many selection and filter tools which will allow user to do comparisons. We can also implement the payment gateways, as well as can process credit card payments.

In future as the technology gets evolving, we will try to make this system more and more efficient.

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