ST. XAVIER'S COLLEGE

Affiliated to Tribhuvan University
Maitighar, Kathmandu

FINAL YEAR INTERSHIP PROJECT PROPOSAL
ON
BUS SEWA [CSC 452]
AT
CODE FOR CORE INNOVATION PVT LTD

For the partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Information Technology awarded by Tribhuvan University

Under the supervision of
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Submitted By:

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Submitted To:

ST. XAVIER'S COLLEGE
Department of Computer Science
Maitighar, Kathmandu, Nepal
16th September, 2018

CERTIFICATE OF APPROVAL

The undersigned certify that they have read and recommended to the Department of Computer Science for acceptance, an Internship Project Proposal entitled "Bus Sewa" submitted by **Aashish Paudel (4734/071)** for the partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Information Technology awarded by Tribhuvan University.

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ABSTRACT

The internet is here to stay, all the business are using it to flourish their service. The good thing about internet is that it can be used by any level of organization. We general people are facing a lot of inconvenient for seeking the services of any organization. Keeping this in mind Bus Sewa a web based application help their customer to buy or reserve ticket remotely. The main objective of this application it to allow customer to choose the seat and book them as per their requirement. Earlier people had to go to the ticket counter, stay in queue and then have be satisfied by the left one seats. Mainly during festival season customer had to wait for hours and hours to buy a ticket. Now due to the digital presence in the internet, customer can book ticket with just a click. They can know all the facilities that bus provides. This application consist of two end: one for the user and another for the admin. Admin can log into the application and then insert all the information about the bus and publish it. On the other hand general people can view those information in well managed manner. The customer can use online payment system to pay for the ticket, and after payment they will be provided with the digital ticket which they can claim during reporting time. The application converts the information of bus into pictorial form of the bus along with the seat view. And the customer can directly click on the seat to reserve it.

Keywords: booking, hello motor center, bus

INTRODUCTION TO INTERNSHIP

An internship is a period of work experience offered by an employer to give students and graduates exposure to the working environment, often within a specific industry, which relates to their field of study. Internships can be done in a range of sectors, including sales, marketing, engineering, graphic design, management, I.T. and many, many more. Throughout an internship you will develop a variety of soft skills, including communication skills, personal effectiveness, presentation skills, creative problem solving and influencing skills [1].

The internship is done as a partial fulfillment of requirements of the Bachelor's degree in Computer Science and Information Technology under Tribhuvan University. The internship is assigned six credit hours (minimum of ten weeks or 180 hours long) as a part of the course requirement. An internship is an outstanding way to develop specific knowledge and skills, as well as make contacts in the career field and build confidence.

OBJECTIVES OF INTERNSHIP

The main objective of the internship is to use all the theoretical knowledge that were learned during 4 years course in a practical way. The broad objectives includes:

- To offer student a practical environment to use their knowledge
- To allow student to know the actual IT market
- To allow student to develop skills like communication, negation and being calm during rush hour
- To develop an ongoing relationship between the academic and practitioner community.

ORGANIZATIONAL PROFILE

Code for Core Innovation Pvt Ltd (C4C) was established in 2016 A.D. with the aim to develop enterprise systems, digital mapping, IT Consultancy, digital marketing and hardware deployment and maintenance for government and private firms [2].

Mission

- To be the most trusted provider of IT products and services for public and private sectors in Nepal and South Asia by 2020.

Vision

- To spread digital literacy all over Nepal.

PROBLEM STATEMENT

Traditional method of booking a bus seat was very troublesome. People had to wait in a queue for hours to book a seat. Customers had to be satisfied with the left out seat. Another major problem is the issue about haphazard pricing issue. Customer did not had any medium to compare prices among many companies.

OBJECTIVE OF THE INTERNSHIP PROJECT

- To allow customer to buy bus seat
- To allow customer to compare price among different companies
- To use online payment system to pay for the ticket.
- To reserve the bus seat
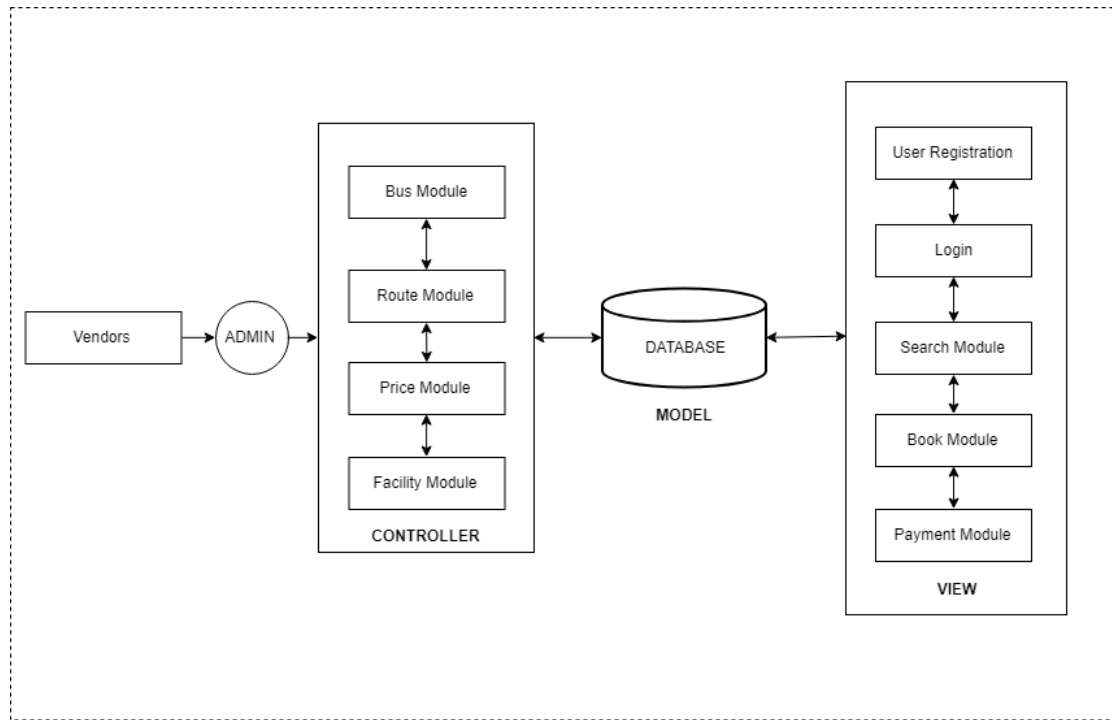
RESEARCH METHODOLOGY

Figure 1: System Architecture

The whole system is divided into two model. Initially the admin of the system collects data from the bus vendors regarding the structure of the bus. Admin is given privilege to login into the backend of the system and enter the data. Basically there will be form under each module and the data entered into that form will be stored in the database. From the database controller will fetch the data and the show it in appropriate place in the front end. On the other end the user can register themselves in the system and then get into the system. User will be given only the privilege to search for the buses. They can select available seat which will be generated dynamically. And if they want to buy the ticket then they can pay via online payment system. API of the online payment system will be integrated into the system.

Particular data is being transferred throughout the system by providing privileges. Data collected from the vendors are organized, tabulated, transformed and shown to user in a pleasing form.

The feasibility study of the proposed project is as follows:

1. **Technical Feasibility**

   This project requires two view one for the admin and another for the user. The backend of the system will be created using Laravel framework of PHP. For the database we will be using MySQL. And for the front end design we will be using HTML, CSS, Bootstrap, JavaScript, and Jquery. So it is technically feasible.

2. **Economic Feasibility**

   This project is affordable to the organization that aims to implement it. Thus the project is economically feasible.

3. **Schedule Feasibility**

   This project will be completed in the given time frame since all the requirement are clear and resources are sufficient.

ROLES AND RESPONSIBILITIES

The major roles and responsibilities of the intern are enlisted as follow: -

- Understand the working patterns of the organization
- Undertake, manage and complete given responsibility
- Attend meeting with the clients
- Daily Update the supervisor about the progress of the project
- To maintain and manage database
- To create layout design of given project
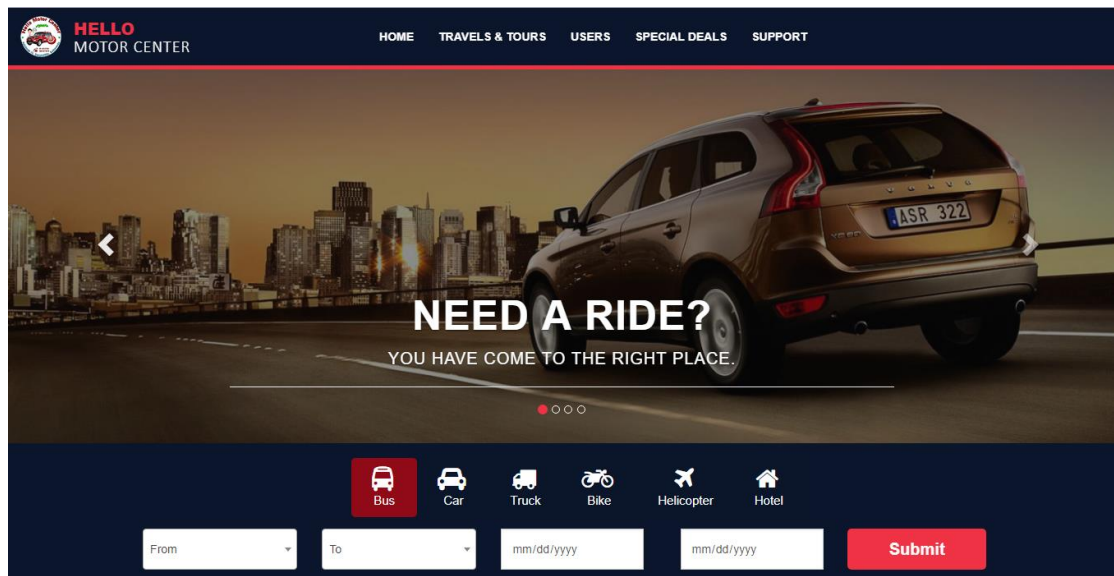
EXPECTED OUTCOMES

Fig: Frontend for user

The above image is the home page for the user. The user can search bus according to their requirement.
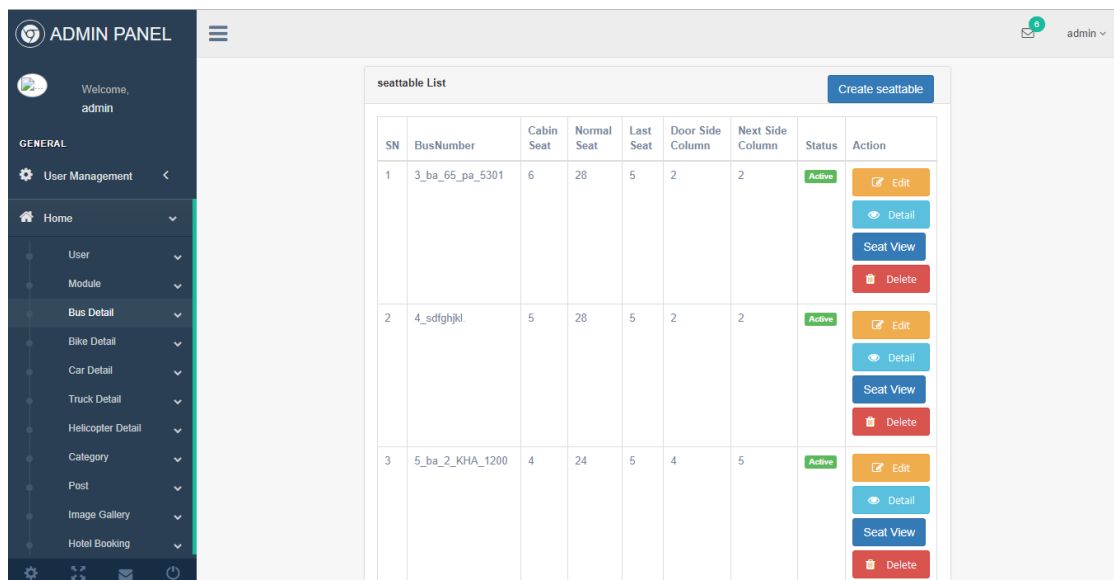

Fig: Backend for user

Above image is the admin panel for the backend users. They can enter data into the system via this panel. The admin can assign roles, create categories and grant permission to the other user.
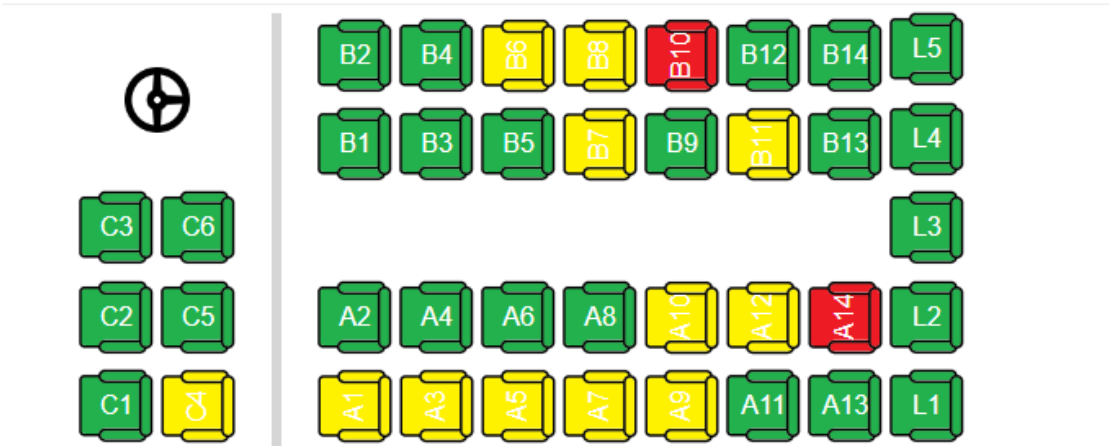

Fig: Bus View

Above image is the structure of the bus seat. All the seats will be dynamically generate according to the data provided by the admin from the backend.
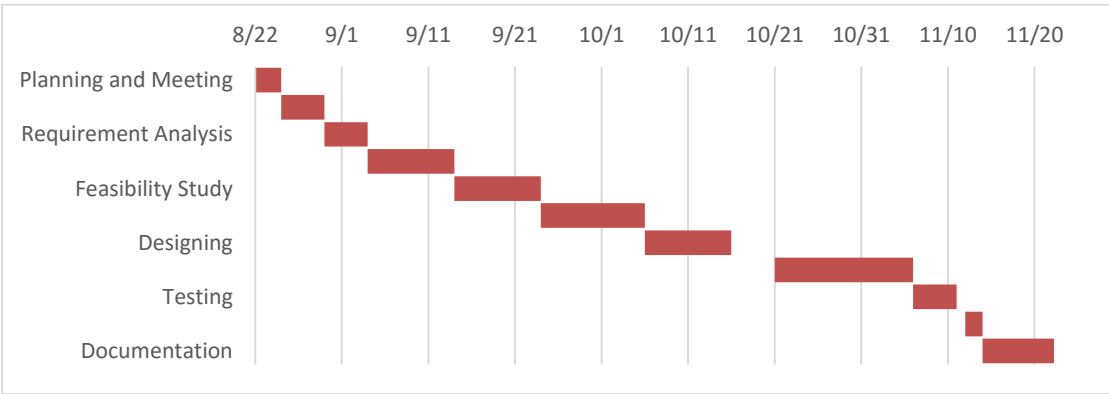
GANTT CHART

Fig: Expected Gantt chart

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[1]. A. Ltd, "What is an Internship? | AllAboutCareers", Allaboutcareers.com, 2018. [Online]. Available:https://www.allaboutcareers.com/careers-advice/internships/what-is-an-internship. [Accessed: 15- Sep- 2018].

[2]."Code for Core Innovation | Turning ideas into software", Codeforcore.com, 2018. [Online]. Available: http://codeforcore.com. [Accessed: 15- Sep- 2018].