

Project Proposal



Cellao Travels

Group 01 - COMF4004

Group Members:

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Problem Definition

Currently, there is no proper means for tourists to book tourist buses and vans. A client must speak with multiple people in order to book a van or a bus, and it must meet their requirements. To find these specifics, a person will have to put in a lot of time. And when they make contact through someone, the bus's condition or suitability are unknown. If there are any changes (If the trip is canceled or the bus cannot arrive) that cannot be notified and there will be financial damage. There are so many difficulties a bus/van owner has to face when finding clients. Additionally, there is a chance to con or demand extra money from foreigners.

Proposed Solution

The proposed solution is a website that allows easy booking of buses and vans. The website displays available buses and vans along with their features of the vehicle. Users can avoid a bad experience by checking the reviews of the vehicle given by previous travelers. The users are presented with many choices of buses/vans with the ability to sort and filter therefore they are able to get the best deal. If there are repeated last moment cancellations a fine will be automatically charged from the involved parties, a cancellation percentage for the bus/van will be shown to support decision making for the customer user. Bus/Van owners registering with the system will be exposed to many potential clients easily. Transparent pricing results in fair pricing to both foreign and local users.

List of Features

Features for All users:

- ❖ Login functionality
- ❖ Edit profile functionality
- ❖ Change Password functionality
- ❖ Forgot Password functionality
- ❖ Logout functionality
- ❖ Dashboard viewing functionality
- ❖ View Bus/Van details
- ❖ View Filtered Price Details (low to high/ high to low)
- ❖ Chat functionality

Features for Admin user:

- ❖ Approval of new Bus or Van
- ❖ Termination of Bus or Van owner accounts
- ❖ Report generation
- ❖ Rating decrement

Features for Bus/Van Owner user:

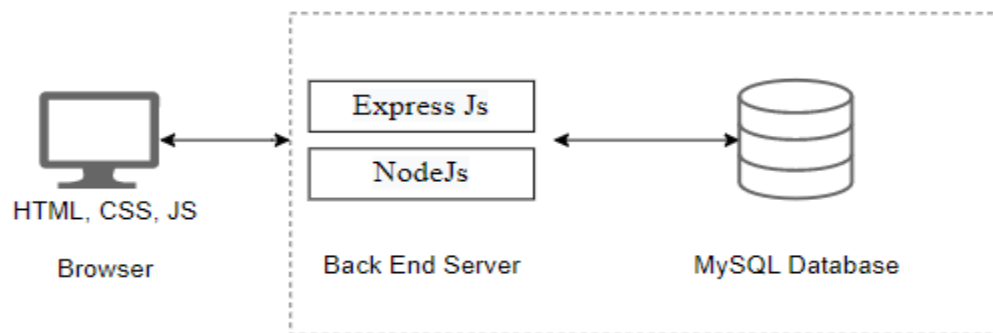
- ❖ Owner registration
- ❖ Confirm booking
- ❖ Cancel booking
- ❖ Add Bus/Van
- ❖ Edit Bus/Van details
- ❖ Remove Bus/ Van

Features for Customer user:

- ❖ Customer registration
- ❖ Book a Bus/Van

- ❖ Give a rating/review for previous bookings.
- ❖ Cancel booking
- ❖ Filter and sort vehicles

High-level Architecture



Technical Feasibility Justification

Thenuri Sandara Hettiarachchi - HTML, CSS, JavaScript, C# , My SQL, Python , PHP

Samadee Kularatne - HTML, CSS, JavaScript, C#, My SQL, Python

Sachintha Lakmin Kahingalage - HTML, CSS, Javascript, MySQL, C#, Python, Flask, PHP

In the below table are the front end technologies that we are employing for this website because HTML, CSS, and JS are all known to us. Bootstrap will also be used for easier and faster development of the responsive front-end. Express and NodeJs were chosen as the backend technology in part because the members are

familiar with JavaScript and also the popularity of the technology allows easier access to resources.

MySQL was selected as the database solution as all group members have experience in working with it.

Front End Tools	HTML,CSS, JavaScript , BootStrap
Back End Tools	NodeJs, Express Js, MySQL