

# MERN Stack Capstone



# Moving Company



## Objective

To create an online application for a packers and movers company using the concepts of MERN stack

this project is to develop and deploy an efficient and user-friendly online application for a packers and movers company. The primary goals are to address the decline in leads and inquiries by establishing a digital presence and providing a seamless platform for prospective customers.

The application enables users to submit inquiries, receive quotations based on provided details, and seamlessly book moving services.



# Motivation

## Real-World Scenario:

A packers and movers company notices that there has been a gradual decline in the number of leads or inquiries in the last three quarters. As a response to this declining demand, they decide to take their business online.

They want a web application that can handle all the inquiries and bookings for prospective customers. They also want to provide quotations based on the details provided by the customers regarding the scope of their work.

Create an online application for this scenario.



# Deliverables

## Features of the project:

- Admin should be able to define the area where the cabs can be booked.
- Admin should be able to view and maintain all the contact details.
- Customers should be able to book a cab service instantly.
- Customers should be able to see the areas where the cabs are available.



# Industry Relevance

Skills used in the project and their usage in the industry are as given below:

- **NodeJS:** Node.js is a cross-platform, open-source server environment that runs on operating systems like Windows, Linux, Unix, and macOS. It runs single-threaded, non-blocking, and asynchronous programming, which is memory efficient.
- **ExpressJS:** Express.js is a backend web application framework of NodeJS used for building RESTful APIs.
- **MongoDB:** MongoDB is an open-source NoSQL database which stores data in a type of JSON format called BSON format.
- **Mongoose:** Mongoose is a JavaScript based object-oriented third-party library for MongoDB. It is used to create connection between MongoDB and NodeJS runtime environment.



# Industry Relevance

Skills used in the project and their usage in the industry are as given below:

- **React:** React is the library for web and native user interfaces. Build user interfaces out of individual pieces called components written in JavaScript.
- **React Router:** React Router is a powerful library for handling routing in React applications.
- **Git:** Git is a distributed version control system used for tracking changes in source code during software development.
- **Git Clone:** Git clone is a command which Creates a copy of a remote repository on the local machine.





# Tasks

Creation of the application will involve:

1. Set up a new React project for the front-end using Create React App.
2. Initialize a Node.js and Express.js project for the backend.
3. Create a new MongoDB database to store customer inquiries and booking details.
4. Initialize a Git repository to manage version control.
5. Design a user interface for customers to submit inquiries.
6. Ensure the user interface is responsive, supporting various devices and screen sizes.
7. Implement backend routes to handle and store customer inquiries in MongoDB.
8. Ensure that all code is managed through Git.





# Project Reference

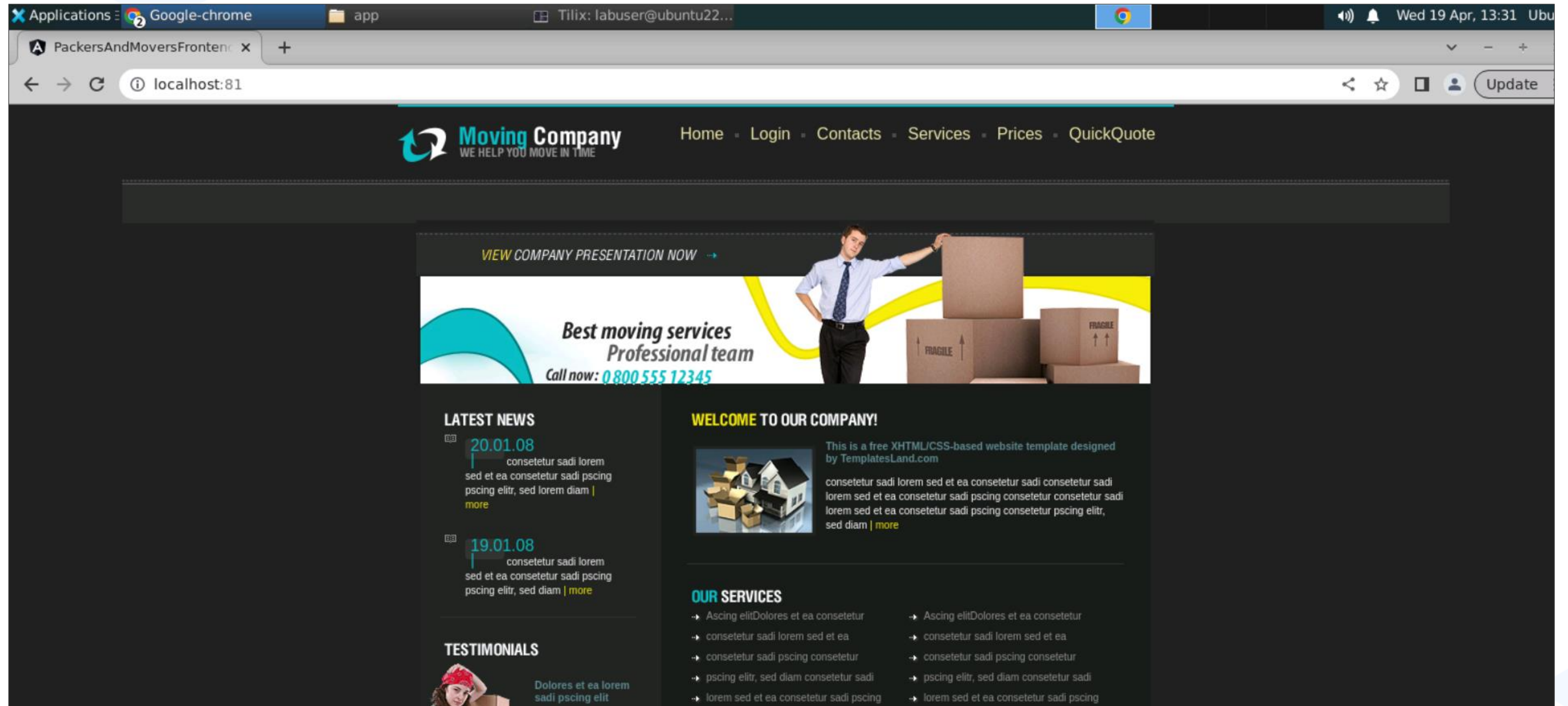
Task 1, 4, 8: Build a strong MERN Foundation: Lesson 1 and 2

Task 2, 3,7: Develop a Reliable Backend with Node and Express: Lesson 1,2,3,4,5

Task 5, 6: Design a Dynamic Frontend with React: Lesson 2,3,4,5,6



# Output Screenshot



# Output Screenshot

The screenshot displays a web browser window with the address bar showing 'localhost/login'. The page features a dark theme with a teal logo for 'Moving Company' and a navigation menu. A central login form is highlighted with a light gray background. The form includes fields for 'EmailId' (containing 'admin@gmail.com') and 'Password' (masked with dots). Below these is a 'TypeOfUser' section with radio buttons for 'Admin' (selected) and 'Customer'. At the bottom of the form are 'SignIn' and 'Reset' buttons, followed by a 'SignUp' link. The footer contains a list of links and a copyright notice.

localhost/login

Home · Login · Contacts · Services · Prices · QuickQuote

**Moving Company**  
WE HELP YOU MOVE IN TIME

**Login Here**

EmailId  
admin@gmail.com

Password  
.....

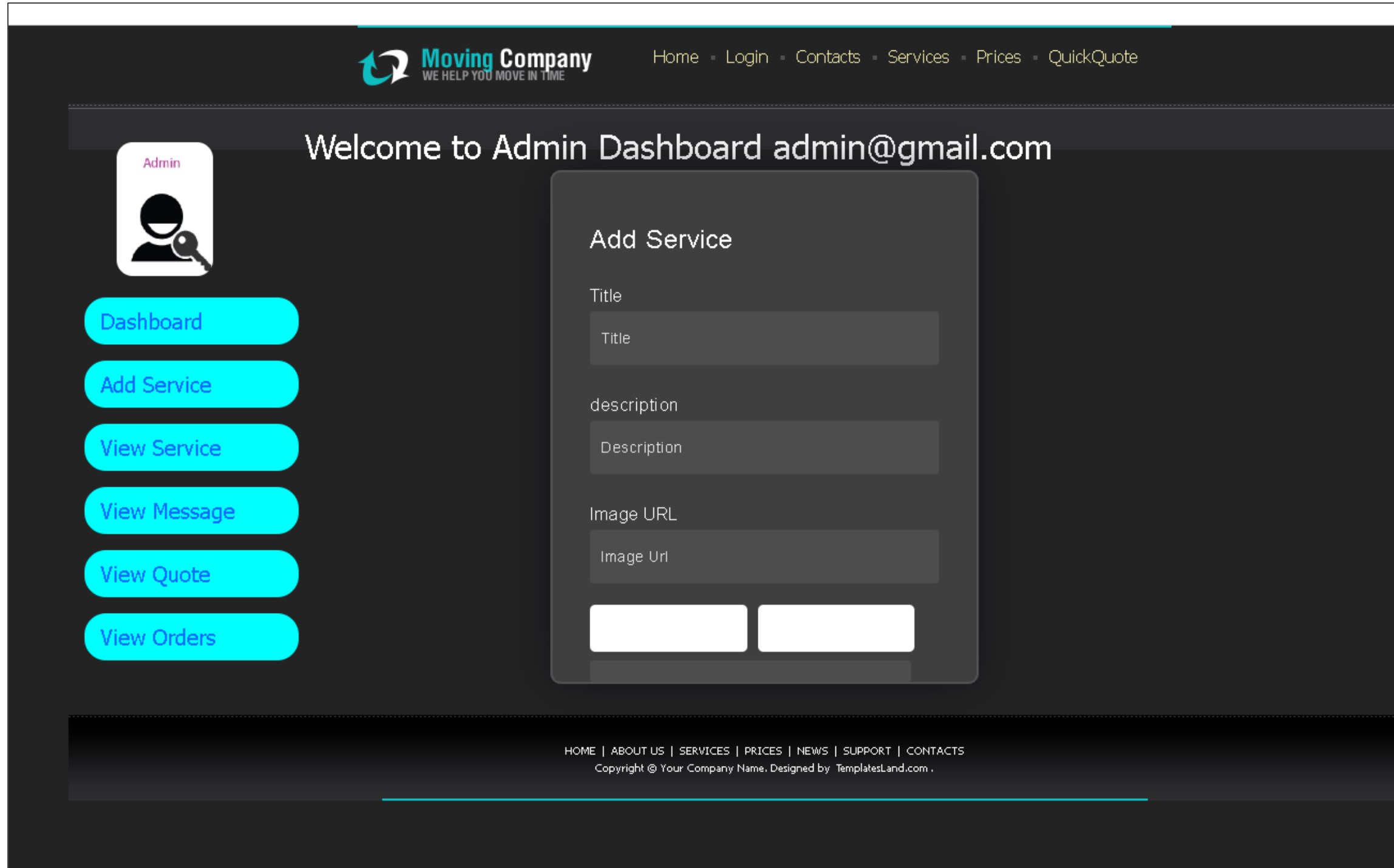
TypeOfUser  
☒ Admin ☐ Customer

**SignIn** **Reset**

[SignUp](#)

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# Output Screenshot



# Output Screenshot

The screenshot displays a web application interface for 'Moving Company'. The header features the company logo and a navigation menu. The main content area contains a central 'Account Create' form with input fields for username, first name, phone number, email, and password. Below these fields are 'SignUp' and 'Reset' buttons, followed by a 'SignIn' link and a registration checkbox. The footer includes a secondary navigation menu and a copyright notice.

**Moving Company**  
WE HELP YOU MOVE IN TIME

Home • Login • Contacts • Services • Prices • QuickQuote

### Account Create

**SignUp** **Reset**


[SignIn](#)

☐

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# Output Screenshot

User



Dashboard

Req For Service

Quick Quote

New Inquiry

View Orders

Welcome to dashboard user steven

Quick Quote

Moving From

Moving To

mm/dd/yyyy

--Select Service--

Submit

Reset

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**Thank You**