

Bus seat allocation Web App

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Roll no	7376222AG133
Seat no	379
Project ID	19
Problem Statement	Bus Seat Allocation for Day Scholars in College

Bus Seating Management App Overview

1. Purpose:

This document outlines the app for bus seating management for day scholar students. It details the system's purpose, features, user interfaces, and operational constraints.

2. Scope of the Project:

The app facilitates bus registration, seat booking, attendance tracking, and communication about bus routes and timings.

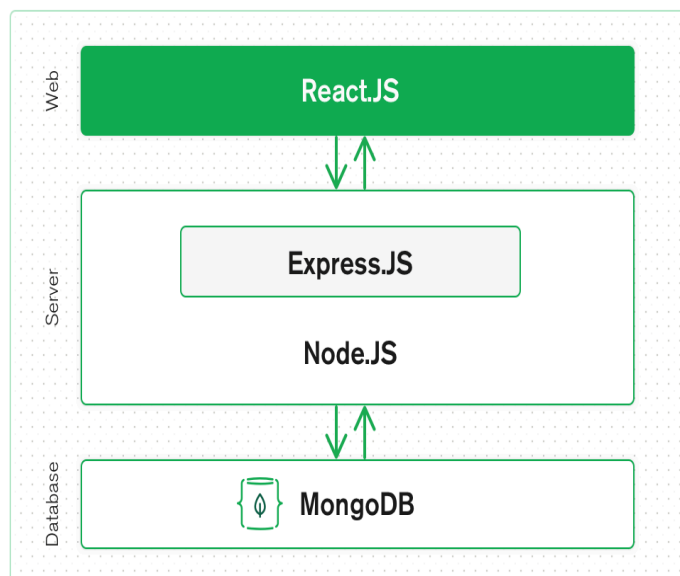
3. Features:

- **Registration & Login:** Students create accounts or log in.
- **Bus Seating Application:** Students submit personal and seating preferences.
- **Application Status:** View seat allocation and attendance records.
- **Bus Route Information:** Notifications about bus routes via email/SMS.

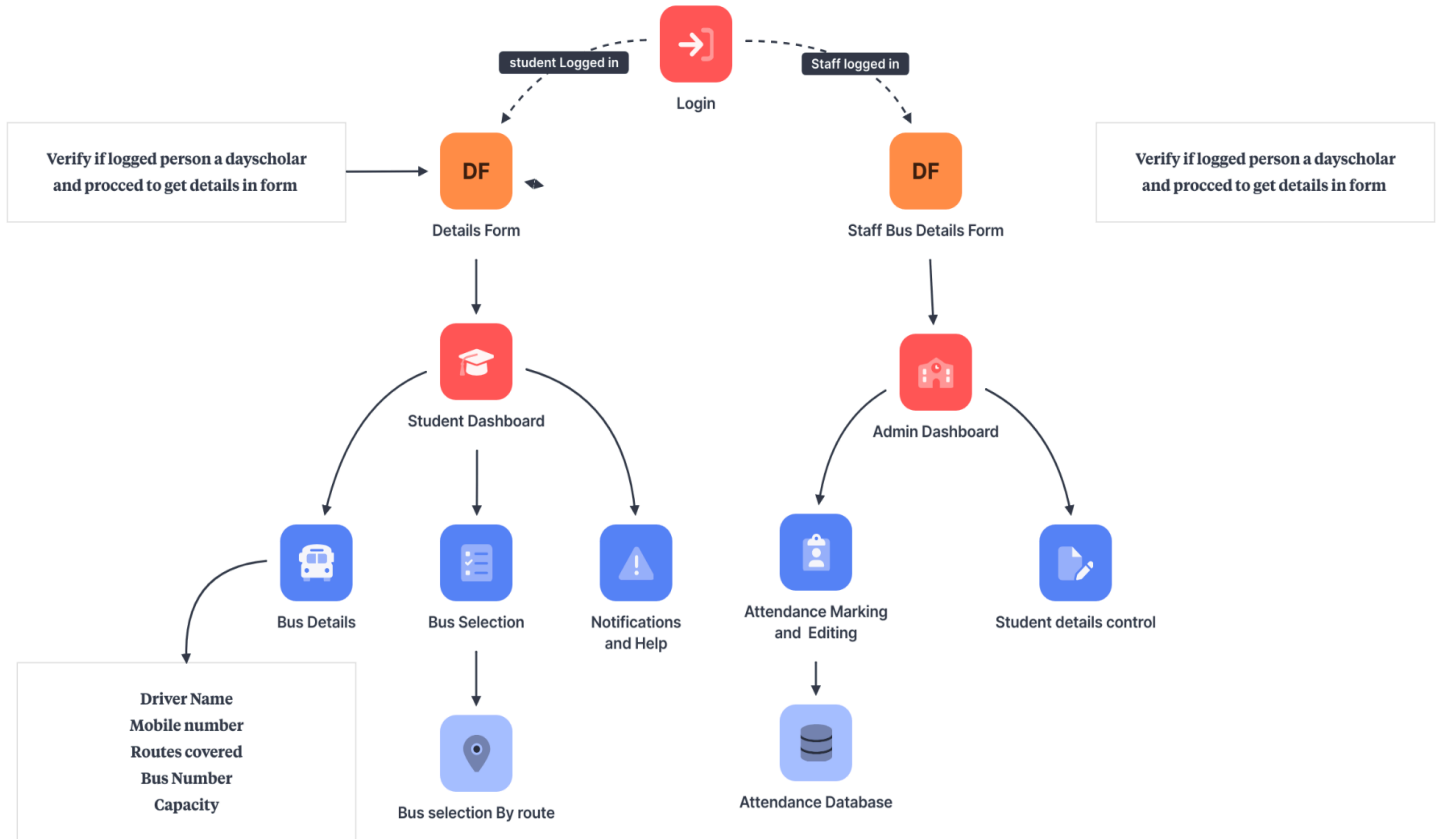
- **Admin Access:** Admins control seat allocation, attendance records, and bus details.

STACK : (MERN STACK)

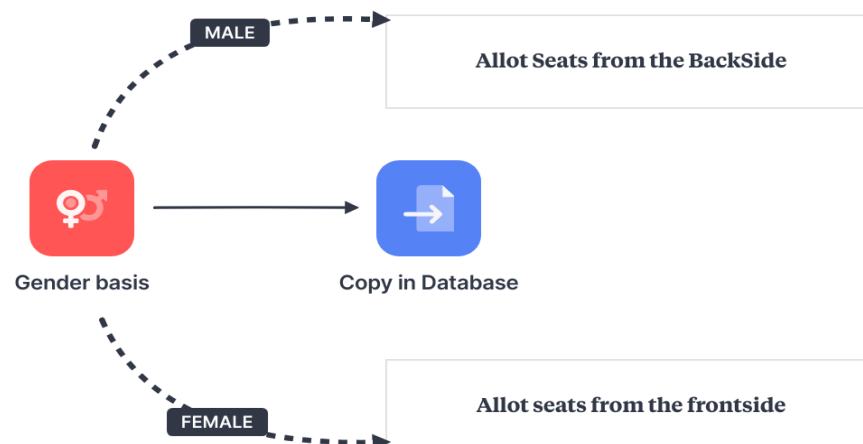
Layer	Technology
Front End	React
Backend	Node.js, Express
Database	MongoDB



WORKFLOW DETAILED VISUAL MAP



Seat allocation :



FRONTEND PROTOTYPE



Bus seat Allocator

Search and choose the bus by your designated stop and landmark for better allotment

Your Dropping Point - Athani



3 Buses Available

List of Buses Passing through Your dropping Point

BUS NO - 5	Route	Bit - Elur - Bharathi nagar - varpalla - Athani - Anthiyur
BUS NO - 6	Route	Bit - Elur - varpalla - Athani - Anthiyur
BUS NO - 21	Route	Bit - Elur - Bahngala pudur - varpalla - Athani - Anthiyur

Seats Available

23

Bus Number

5

Stop Name *

Enter your stop name

Passenger Name*

Enter your name

Allocate Seat

[Terms and Conditions](#)

[Cancellation Policy](#)



Search for bus, students, etc...

Prasath
prasath@bitsathy.ac.in

Dashboard

ANALYTICS

Attendance

DETAILS LOG

Admin

students

OTHERS

Reports

Dark Mode

Settings

Log Out

Recent Sales

#	Student Id	Student Name	Bus No	Status
01	7376222ag133	Lohit R	2	Present
02	7376222al133	Bolkshl h o	25	Present
03	7376222am133	Jenny	11	Absent
04	7376221cs133	Robert	7	Present
04	7376222it133	Jacob	29	Absent

Previous

1 2 3 ... 8 9 10

Next

Calendar

April 2023

Mo	Tu	We	Th	Fri	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

BACKEND DATA-STRUCT

Table Name	Fields
Buses	Bus Number, Route, Seats
Students	Student Name, ID, Location, Contact Information
Bus Allocations	Bus Number, Student ID, Seat Number
Admins	Admin ID, Password