

# Introduction

The Movie Reservation System is a web application that allows users to browse available movies, check time slot availability, and reserve seats for their chosen films. The application consists of a backend built with Node.js and MongoDB, and a frontend developed using Flutter.

## Prerequisites:

- Node.js
- MongoDB
- Flutter SDK
- Dart SDK

## API Endpoints

### Movie Listing

- **Endpoint:** `GET /api/movies`
- **Description:** Retrieves a list of available movies with their respective time slots

### Check Availability

- **Endpoint:** `GET /api/movies/:movieId/slots/:slotId`
- **Description:** Checks the availability of a specific time slot for a movie.

### Reserve Time Slot

- **Endpoint:** `POST /api/movies/:movieId/slots/:slotId/reserve`
- **Description:** Reserves seats for a selected movie time slot.

## Frontend Guide

### UI Components

- **Movie Listing Page:** Displays available movies and their time slots.
- **Reservation Page:** Allows users to select the number of seats and submit a reservation.

### State Management

The application uses the Provider package for state management, allowing for efficient updates and reactivity in the UI.

How to run:

Back end :

1- In movie-reservation-backend folder Set up environment variables in .env file

```
MONGODB_URI=<your-mongodb-uri>  
PORT=3000
```

2- Run seed file

3- Run server

Front end :

In movie\_project folder in lib folder Run the main file