

Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	SWTID1742930170
Project Name	I-Movies : Movie Ticket Booking System

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Users face difficulty in booking movie tickets due to non-intuitive interfaces, lack of real-time seat availability, limited management options, and poor user experience across platforms. Admins struggle with manual show and seat configurations, leading to inefficiencies and errors.
2.	Idea / Solution description	I-Movies is a full-stack MERN-based movie ticket booking platform that allows users to register, search movies, view theaters, select seats, and make secure payments in real time. Admins can manage movies, cinemas, seating layouts, and showtimes using a dedicated dashboard.
3.	Novelty / Uniqueness	Unlike traditional systems, I-Movies offers a minimalistic UI, real-time seat updates using MongoDB's dynamic schema, admin seat layout customization, and user reviews for social proof. The tech stack ensures high performance and easy integration of future AI recommendations.
4.	Social Impact / Customer Satisfaction	Users benefit from convenience, reduced waiting times, and seamless ticketing experiences, increasing accessibility to entertainment. Admins reduce overhead and improve operational accuracy. Overall, the platform fosters better trust, engagement, and satisfaction.
5.	Business Model (Revenue Model)	Revenue can be generated through booking fees, partnerships with cinemas, premium listings for movie promotions, targeted in-app advertisements, and subscription plans for frequent users.
6.	Scalability of the Solution	Built using the MERN stack, the platform is scalable both horizontally and vertically. It supports cloud deployment (e.g., AWS, Heroku), multi-theater support, microservices for ticketing and payments, and can easily integrate with third-party APIs (e.g., Google Pay, Razorpay).