Final Project Proposal

Project Name: Star View Cinema

1. Project Description

StarViewCinema is a web-based application designed to streamline the movie ticket reservation process for users while providing cinema administrators with powerful management tools. The system enables secure user registration, seat selection, ticket booking, and payment, while also offering an efficient way to manage movie schedules, pricing, and user feedback.

2. Group Members

- Rawan Rabei (Team Leader)
- Yara Elfeky
- Yasmina Mohammed
- Sama Ayman
- Hagar Hany
- Engy Hesham

3. Team Leader

Rawan Rabei

4. Objectives

- Provide a user-friendly platform for booking movie tickets online.
- Enable secure authentication for users and administrators.
- Offer an interactive seat selection and multiple payment options.
- Enhance customer satisfaction with discounts, rewards, and feedback collection.
- Support cinema staff with efficient management tools for movies, users, and ticket pricing.

5. Tools & Technologies

- Frontend: HTML, CSS, Bootstrap, JavaScript, React.js
- Backend: Node.js, Express.js
- Database: MongoDB
- Authentication: JWT (JSON Web Token)
- Payment Integration: PayPal / Stripe
- Deployment: Vercel / Render
- UI Design Reference: Figma (cinema booking UI kits)

6. Milestones & Deadlines

Week 1: Initial Setup and Authentication
- Set up project structure (frontend & backend).
- Design database schema for users, movies, bookings, and payments.

- Implement authentication and authorization (user/admin).
- Deliverables: Registration & login system, initial home page.

Week 2: Movie Listing & Seat Selection
- Add movie listing with schedule and filtering.
- Develop seat selection interface and booking logic.
- Deliverables: Movie display page, interactive seat map.

Week 3: Payment & Admin Dashboard
- Integrate secure online payment.
- Build Admin Dashboard for managing movies, prices, and bookings.
- Deliverables: Payment gateway, Admin panel.

Week 4: Final Testing & Deployment
- Finalize responsive UI and improve UX.
- Conduct full system testing (unit, integration, UI).
- Deploy on hosting platform.
- Deliverables: Fully functional web application.

7. KPIs (Key Performance Indicators)

- Code Quality & Development: Clean and modular code, reusable components, proper state management.
- Performance & Optimization: Fast load time, efficient API response, optimized rendering.
- User Experience (UX): Responsive design, accessibility, smooth seat booking flow, and overall satisfaction.
- Deployment & Scalability: Stable cloud deployment, uptime monitoring, SEO optimization.
- Business & Functional Impact: High booking success rate, feature completion, active users, quick issue resolution.