Project Title:

UniTicket SDK - One SDK to Book Them All

***** Vision Statement:

To unify the fragmented global ticketing systems across industries (airlines, railways, events, cinemas, concerts) with a **developer-first SDK** that provides seamless backend infrastructure to build, manage, and scale any ticket booking system.

Problem Statement:

Ticketing systems today are:

- Industry-specific (e.g. IRCTC, BookMyShow, Eventbrite).
- Redundant in development efforts (every new startup builds from scratch).
- Closed APIs or monolithic solutions.
- Difficult to integrate for developers building **custom platforms**.

Proposed Solution:

Create an industry-agnostic, plug-and-play Go-based SDK that:

- Handles ticket creation, booking, payment, seat availability.
- Supports events, transport, cinemas, and more.
- Uses Appwrite for auth, MongoDB for storage, Razorpay for payments.
- Deployable on any cloud with REST APIs.
- Open to integration into any frontend.

o Target Users:

Segment	Use Case
Developers	Integrate full booking backend into apps
Startups	Build ticket-based platforms rapidly
	Airlines, Railways, Bus Booking Engines
Event Hosts	Conferences, concerts, exhibitions
🕠 Cinemas	Movie chains & OTT screenings

Core Features:

Module	Description
■ Ticket Booking	Select shows/events/flights and book with seat management
🙏 Seat Management	Real-time seat lock and update
■ Payments	Integrated with Razorpay
🔐 Auth & Roles	Appwrite-based login, user roles
SDK Package	Developer SDK to integrate easily
Booking Logs	MongoDB log of each transaction
Cross-Domain Support	Can be used for events, movies, railways, etc.
Docker Support	Easily deployable via containers

E Tech Stack:

Layer	Technology
Language	Go (1.21)
Authentication	Appwrite
Payments	Razorpay
Database	MongoDB
API Framework	Gorilla Mux (REST)
Deployment	Docker, Docker Compose
API Testing	Postman / Thunder Client
Documentation	Swagger (OpenAPI Spec)
Version Control	GitHub

Architecture Workflow:

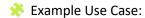
User App \rightarrow SDK/API \rightarrow Appwrite (Auth)

 \downarrow

MongoDB (Booking DB)

 \downarrow

Razorpay (Payment)



Frontend: A startup building a movie ticket booking app.

Backend: They plug in your SDK, create show endpoints, manage seat locking, integrate Razorpay, and go live in 2 days — all without writing complex backend logic.

Monetization Model:

Model	Explanation
■ SaaS Subscription	Monthly fees for hosted SDK (Cloud offering)
Enterprise Licensing	Large companies can white-label the backend
Per Booking Commission	Earn ₹1–₹5 per ticket booked via SDK
** Plugin Marketplace	Analytics, Loyalty Points, QR Code Addons
	Free → Pro → Enterprise API access limits

Business Strategy:

Stage	Activities
MVP (Now)	Bookings, seat manager, payments
Q2 2025	Multi-domain templates (flights, events, cinemas)
Q3 2025	Add webhook support, web dashboard
Q4 2025	AI-based demand analytics + mobile SDK
2026	Enterprise integrations (Amadeus, Sabre, IRCTC APIs)

Comparison with Existing Global Companies:

Feature	UniTicket SDK	BookMyShow	Eventbrite	Ticketmaster	Amadeus
Domain-Agnostic	✓	×	×	×	×
SDK for Devs	✓	×	×	×	Partially
API-first	~	×	<u>~</u>	×	✓
White-label Suppor	t 🔽	×	×	×	<u>~</u>
Easy Deployment	☑ (Docker)	×	×	×	×
Monetization	B2B SaaS	B2C	Event-based fee	Closed	GDS licensing

Unique Selling Points (USP):

- First Go-based universal ticketing SDK
- open, plug-and-play REST APIs
- **Industry-agnostic** (works across domains)
- **mathematik** Modular + scalable + secure
- Self-hosted or SaaS option

- Long-Term Potential:
- 2 Integration with flight APIs, rail networks, event discovery engines
- 2 Partnering with ticket printers, kiosks, POS devices
- 2 Enabling **decentralized ticketing** with Web3 in the future
- Real-time seat heatmaps, resale ticket marketplaces