AIRLINE MANAGEMENT SYSTEM

Date	20-6-2025
Team ID	LTVIP2025MID29669
Project Name	Airlines Management system
Maximum Marks	

Chapter- 11

11. Future Scope

1. Advanced Digitalization

- **Touchless Travel**: Integration with biometric systems for seamless check-in and boarding.
- **Smart Ticketing**: QR-based mobile tickets and blockchain for secure, tamper-proof records.
- **AI-Powered Chatbots**: For 24/7 customer support and booking assistance.

2. Enhanced Connectivity

- **Satellite Communication**: Real-time flight tracking and weather updates.
- **IoT Integration**: Sensors for aircraft health monitoring and predictive maintenance.
- **Cloud Syncing**: Instant data updates across global airline branches.

3. Intelligent Automation & AI

- **Predictive Analytics**: Forecast passenger demand, delays, and maintenance needs.
- **Dynamic Pricing Models**: AI-driven fare adjustments based on demand and competition.
- **Smart Scheduling**: Automated crew and flight assignments using machine learning.

4. Personalized User Experience

- **Omnichannel Engagement**: Unified experience across mobile apps, web, and kiosks.
- **Loyalty Programs**: Tailored offers based on travel history and preferences.
- **Voice-Activated Booking**: Integration with virtual assistants like Alexa or Siri.

5. Data Security & Compliance

- **Advanced Encryption**: Protect passenger and operational data.
- **Role-Based Access Controls**: Ensure only authorized personnel access sensitive modules.
- **Regulatory Compliance**: Adherence to aviation and data protection standards globally.

☐ **6. Scalable Reporting & Insights**

- **Real-Time Dashboards**: Monitor KPIs like flight punctuality, revenue, and customer satisfaction.
- **Custom Reports**: Drill-down analytics for route profitability and pilot performance.
- **Integration with BI Tools**: Seamless export to platforms like Tableau or Power BI.