

PROJECT PROPOSAL

Database management system and Java OOP – Software Engineering
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Airport Management System (AMS)

Introduction

Airports are crucial hubs of global transportation, connecting humans and goods the world over. dealing with their operations effectively calls for sophisticated systems that make sure seamless coordination of flights, passengers, luggage, and sources. The Airport management gadget (AMS) is a complete software program answer designed to automate and streamline numerous airport operations, such as flight scheduling, passenger test-ins, luggage dealing with, safety monitoring, and useful resource allocation. by way of integrating current database technologies with item-orientated programming concepts, this device will improve operational performance, beautify passenger studies, and ensure safety compliance.

Objectives

- Operational Efficiency:
 - ❖ Automate flight scheduling and gate control.
 - ❖ reduce mistakes in baggage handling and passenger processing.
- Enhanced Passenger Experience:
 - ❖ decrease wait times thru green useful resource allocation.
 - ❖ offer actual-time updates on flight repete, gate assignments, and baggage monitoring.
- Improved Security and Compliance:
 - ❖ make certain clean coordination of safety checks with actual-time monitoring.
 - ❖ observe aviation protection requirements.
- Scalable and Reliable System:
 - ❖ design a machine capable of managing increasing passenger and flight volumes.
 - ❖ build a sturdy and fault-tolerant infrastructure.

Methodology

- Phase 1: Planning and Requirement Analysis
- Phase 2: Database Design
- Phase 3: System Development
- Phase 4: Integration and Testing
- Phase 5: Deployment and Documentation

Timeline

- Week 11: Requirement analysis and proposal submission
- Week 12-16: Database schema design and sample data entry
- Week 16-17: Backend development for core modules

Team Roles

1. Project Manager
2. Database Developer
3. Application Developer Java OOP

Expected Outcomes

- Enhanced Efficiency
- Improved Passenger Experience
- Comprehensive Resource Management
- Robust Security and Compliance
- Scalable Solution