Introduction

Hotel Management System

Group members:

1.	Hồ An Thịnh	Student1614909
2.	Phạm Đăng Vinh	Student1614910
3.	Nguyễn Hoàng Phúc	Student1614891
4.	Lê Quang Huy	Student1394600

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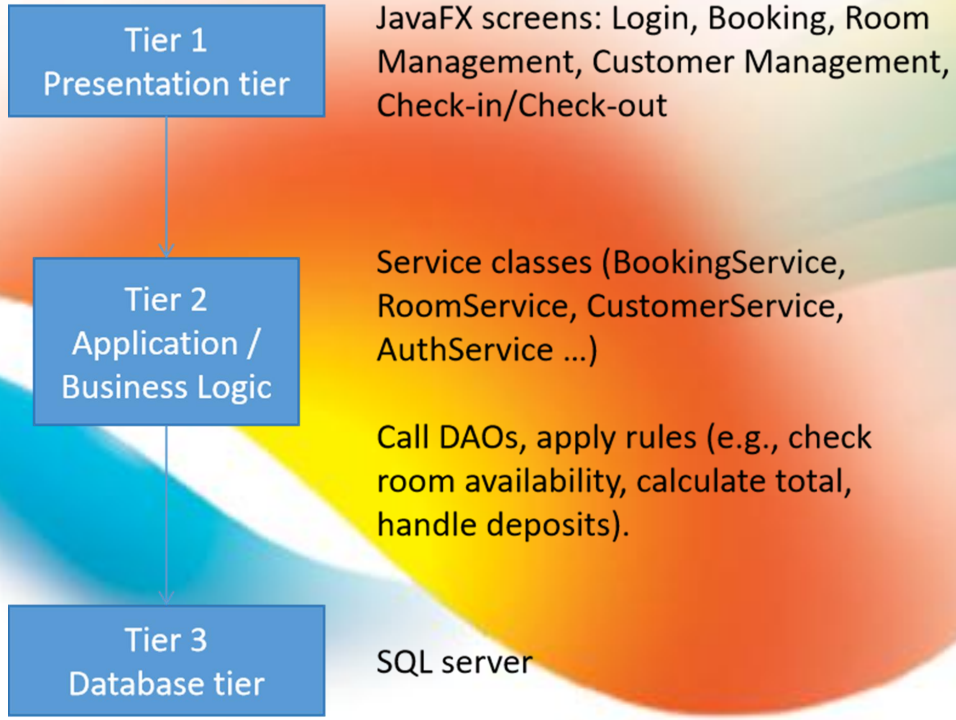
Introduction - Actual requirements

- Manual hotel processes caused:
  - Double bookings (spreadsheet/paper-based)
  - Slow check-in/check-out → poor guest satisfaction
  - Room status confusion (housekeeping not in sync)
  - Limited financial oversight (manual revenue tracking)
  - No security/accountability for staff actions

Introduction - Requirements of the project

- Functional Requirements:
  - Reservation management (create, cancel, prevent double-booking)
  - Guest management (store profiles)
  - Room management (status, maintenance)
  - Check-in/check-out workflows with invoices
  - Billing & payments
  - User management with role-based access (Manager, Receptionist, Admin)
- Non-Functional:
  - Desktop-based (JavaFX + SQL Server)
  - Secure login with password
  - User-friendly interface
  - Stable database connectivity

Introduction - Deployment diagram



Test Result [1-n]

- Booking Management → OK
- Check-in / Check-out → OK
- Generate invoice → OK
- Customer Management → OK
- Room Management → OK
- Services Management → OK
- Account Management → OK

Test Result [2-n]

- Input validation (dates, phone, email) → Pass
- Role-based permissions (Admin, Staff) → Pass
- Secure login with password → Pass
- JavaFX UI responsiveness → Pass

Conclusion

- Automated hotel processes → faster & more reliable
- Real-time room tracking → eliminates booking conflicts
- Smooth check-in/check-out process improves customer experience
- Secure role-based access ensures accountability

Development

- Developed with JavaFX frontend and SQL Server backend
- JDBC for database connectivity
- Follows layered architecture (UI → Logic → DB)
- Uses entity relationship model for data consistency

Task List

No	Member	Contents		Table Name
1	**Hồ An Thịnh**	Admin		Staying_Management
2				
3		User	*Checkin*	
4			*Assign customers and services* *Print bill*	
1	**Phạm Đăng Vinh**	Admin	*Room management* *Service management* *Customer management*	Service_Management Room_Management Customer_Manangement
2				
3				
4		User		
1	**Nguyễn Hoàng Phúc**	Admin	*Accout management*	Accout_Management
2				
3		User		
4			*Print bill*	
1	**Lê Quang Huy**	Admin		Booking_Management
2				
3		User	*Booking*	
4			*Cancel booking*	

Thank You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Reference

- Hotel Management System Project Report – Group 04 (2025)