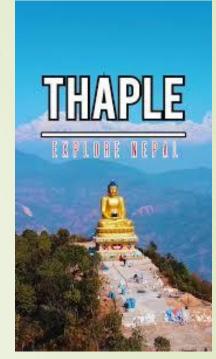
"ThapleJeep: Kaligandaki Corridor Transport Coordination System (KCTCS)"

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Course: TEAPT 704 – Advance Programming technique

University: Nepal Open University

Exam Roll No: 8225012014



Introduction

Background

- Thaple Dada
 - Top Hill in Gulmi district, 1,679 metres (5,509 feet), 28.064420880289493, 83.47163598905681
- KCTCS Overview:
- Connects rural municipalities across eastern Gulmi.
- Ruru Gaupalika, Kaligandaki Gaupalika, Satywati Gaupalika, Chandrikot Gaupalika over Gulmi district.
- Java Swing-based app for Nepal's Kaligandaki Corridor Highway.

Purpose

- To streamlines chaotic jeep services.
- To links passengers, drivers, and admins for reliable travel.
- It is critical for daily communications, agriculture, and tourism in hilly regions.





KCTCS Overview:

- Key Features:
 - Passenger seat booking
 - Driver availability tracking
 - Admin dashboard for route/user management



Functional Requirements

- Passenger:
 - Search/book jeeps, view confirmations.
- Driver:
 - Update availability, confirm pickups.
- Admin:
 - Manage users, drivers and generate reports.

Tools & Technologies

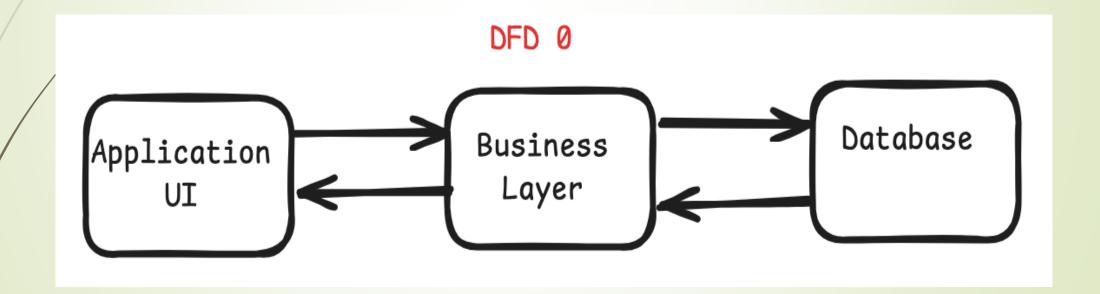
Tools & Technologies

- Frontend: Java Swing (GUI)
- Backend: JDBC and MySQL (Database)
- Tools: Eclipse IDE, Linux

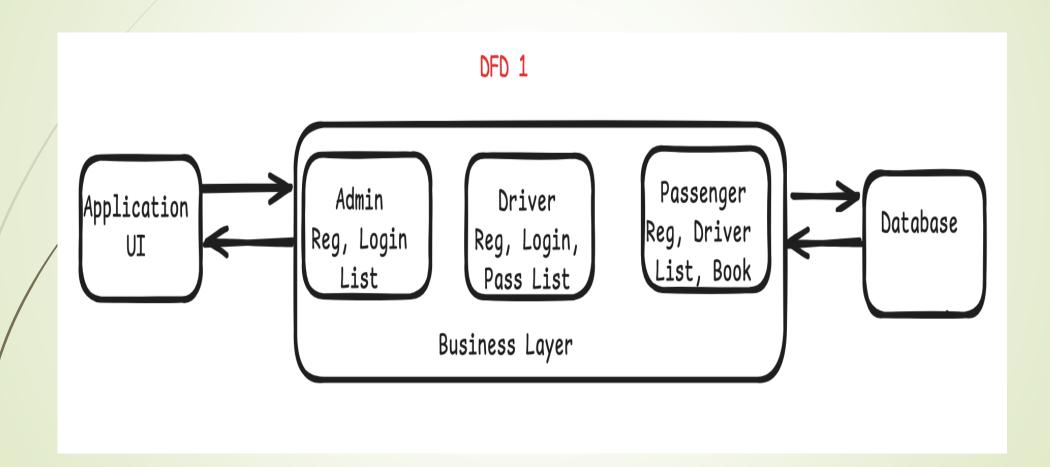
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System Architecture

- UI Layer: Java Swing forms
- Application Layer: Booking logic
- Database Layer: MySQL via JDBC

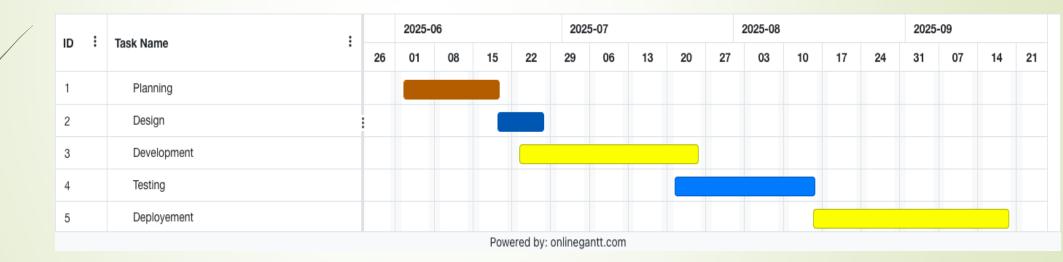


System Architecture-2



Project Planning

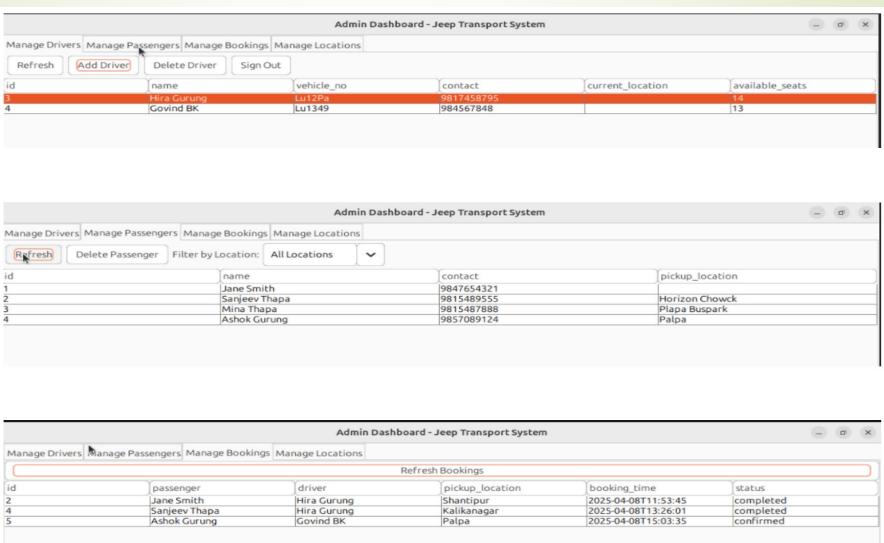
- ► Timeline: 3 months , Junne 2025
- Phases:
 - Planning, Design, Development, Testing, Deployment.



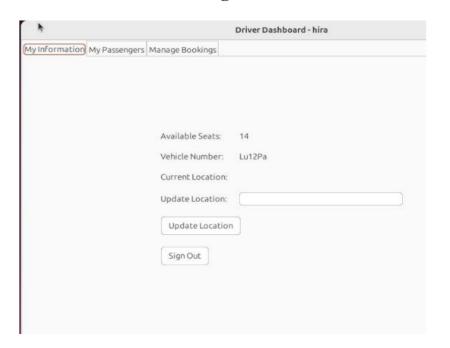
- Screenshots:
 - Admin dashboard (driver/passenger management).
 - Passenger booking interface.

Username:	admin	
Password:	******	

Screenshots: Admin dashboard

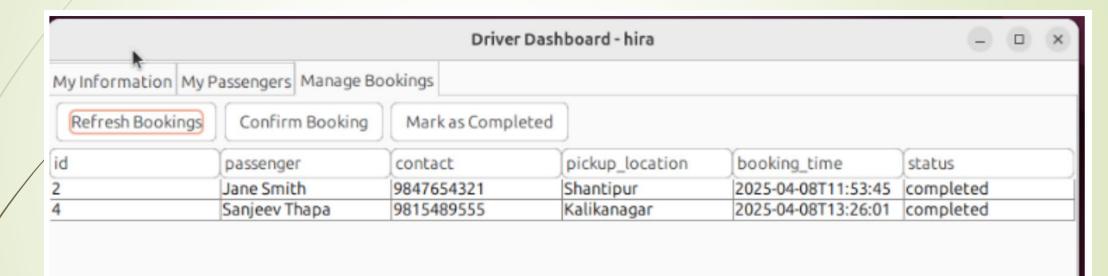


Screenshots: Driver dashboard

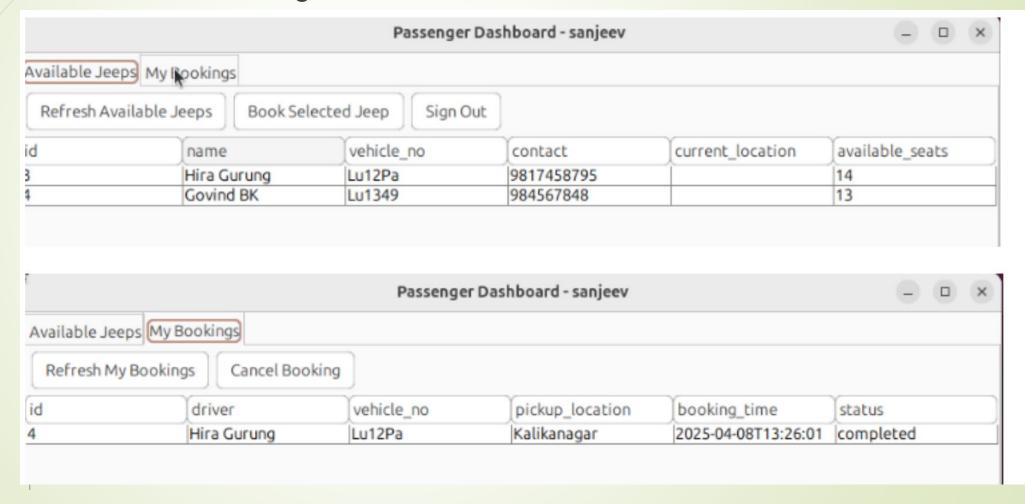


		Driver Dashboard -	hira	_ D X
My Information My	Passengers Manage Booki	ings		
		Refresh Passenger	rs	
name	contact	pickup_location	booking_time	status
Jane Smith	9847654321	Î	2025-04-08T11:53:45	completed
Sanjeev Thapa	9815489555	Horizon Chowck	2025-04-08T13:26:01	completed

Screenshots: Driver dashboard



Screenshots: Passenger dashboard



Expected Outcomes

Expected Outcomes

- Reduced wait times
- Optimized jeep occupancy
- Transparent operations

Future Suggestions

- For real time the system can be migrated to web based UI using Apache Tomcat Server.
- o And it can be implemented as mobile app.

Thank You

https://github.com/sanjeevlcc/ThapleJeep