



IndiaRide: Vehicle Rental System

This presentation outlines the development of IndiaRide, a web-based vehicle rental platform, using Agile methodology.

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Introduction to IndiaRide

What is IndiaRide?

A platform connecting vehicle owners with renters, offering flexible rental durations, secure transactions, and real-time availability.

Why is it needed?

Traditional rental systems lack security, availability, and efficiency. No unified system benefits both renters and owners.

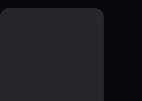


Agile Methodology Overview



What is Agile?

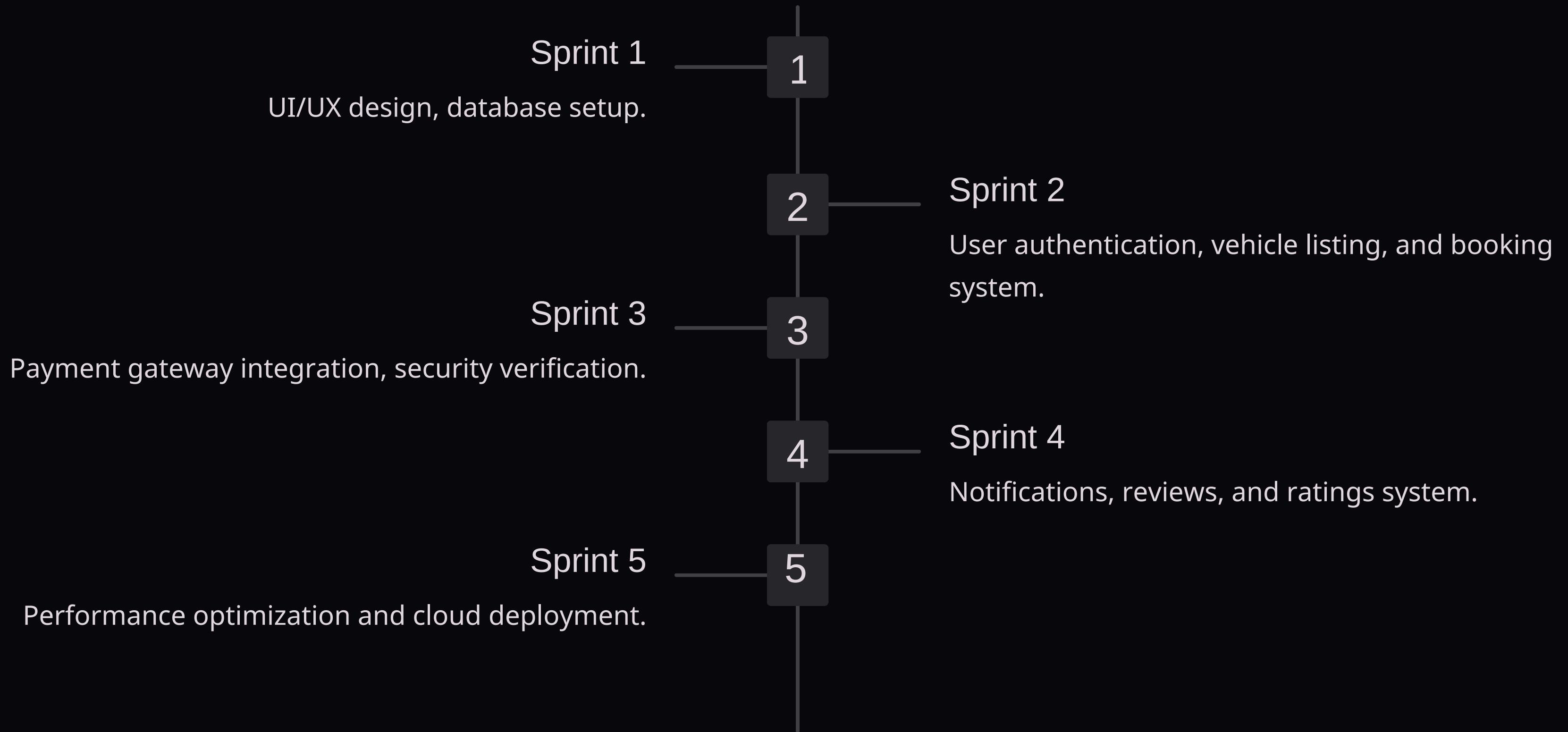
An iterative software development approach focused on flexibility and collaboration.



Why Agile for IndiaRide?

Allows continuous improvements based on real-time user feedback. Enables quick adaptation to changing market needs.

Agile Development Process





**Marketplace
to buy and
sell cars.**



**Swap Your
Car**

Find, choose and connect



**Explore
available
vehicles online**

23,281 cars for sale in USA

User Stories & Requirements Gathering

Renters

- Search for available vehicles by location.
- Book a vehicle for specific dates.
- See detailed information about a vehicle before booking.

Owners

- Register and create an account.
- Add, update, and remove vehicle listings.

System Architecture & Technology Stack



Backend

Django



Frontend

HTML, CSS, JavaScript



Database

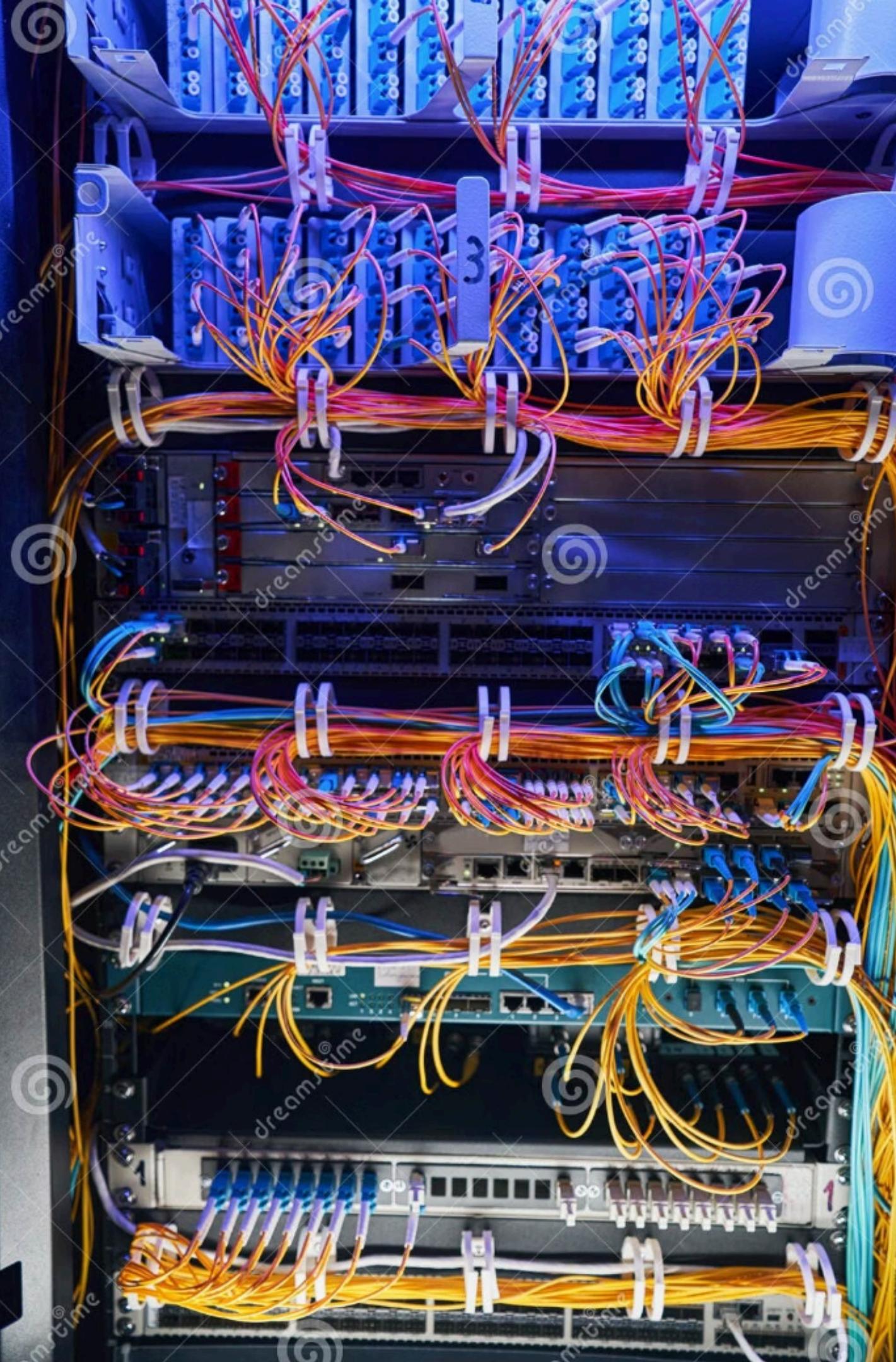
PostgreSQL/MySQL &
MongoDB



Deployment

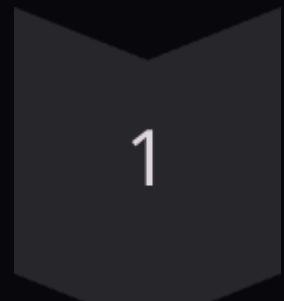
AWS/Azure with

Docker & Kubernetes



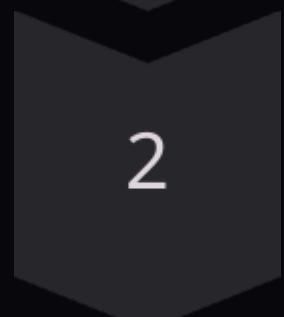


Sprint Execution & Collaboration



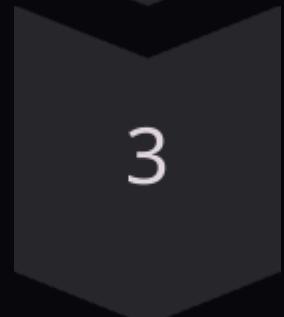
Daily Standups

Quick updates on progress and blockers.



Sprint Reviews

Showcasing completed features for feedback.



Retrospectives

Reflecting on past sprints for continuous improvement.



Key Features & Testing

1

User Authentication

Secure user authentication and role management.

2

Vehicle Listings

Real-time vehicle listings and availability updates.

3

Payment Gateway

Integrated payment gateway for secure transactions.

4

User Reviews

User ratings and review system for trust and transparency.

Challenges & How Agile Helped

Evolving Requirements

Evolving user requirements and security concerns.

Scalable Architecture

Ensuring a scalable architecture for high demand.

Real-time Booking

Managing payment integration and real-time booking without lag.





Conclusion

Agile methodology enabled efficient development, flexibility, and scalability. IndiaRide successfully delivers a secure, scalable, and user-friendly rental experience.