Cab Drivers

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The Team

- Client- Mr. Stephen Jennings
- Supervisor: Dr. Donald Davendra
- Josh Basic – Program Lead
- Jacob Davis – Design Lead
- David Gamino – User Interface Lead
- Paul Horner – Database Lead
- Erin Parsons – Team Lead, Documentation and Communication Lead

Topic

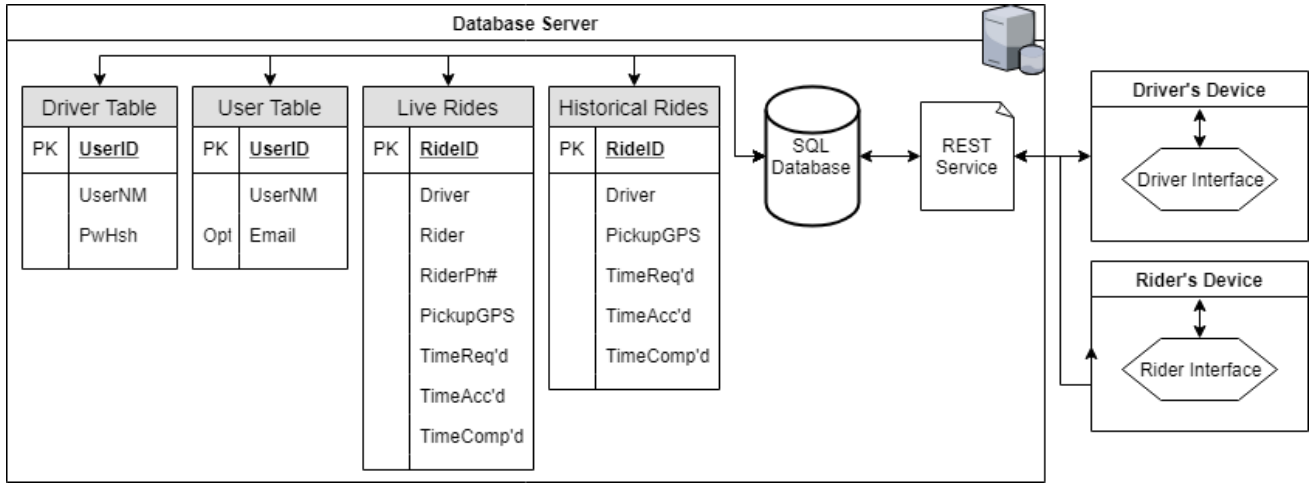
- Construct an application for KC Cab drivers to provide clients with rides at their request.

Requirements – General Scope

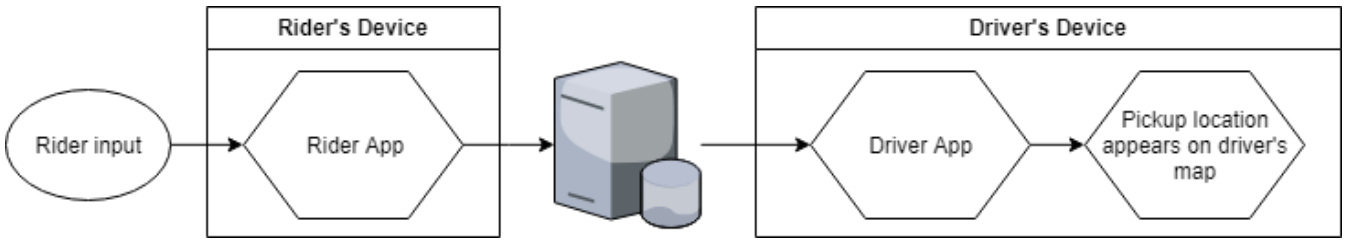
- Android
- Kittitas area of service
- Simple Design
- Driver authentication

Requirements – Specifics

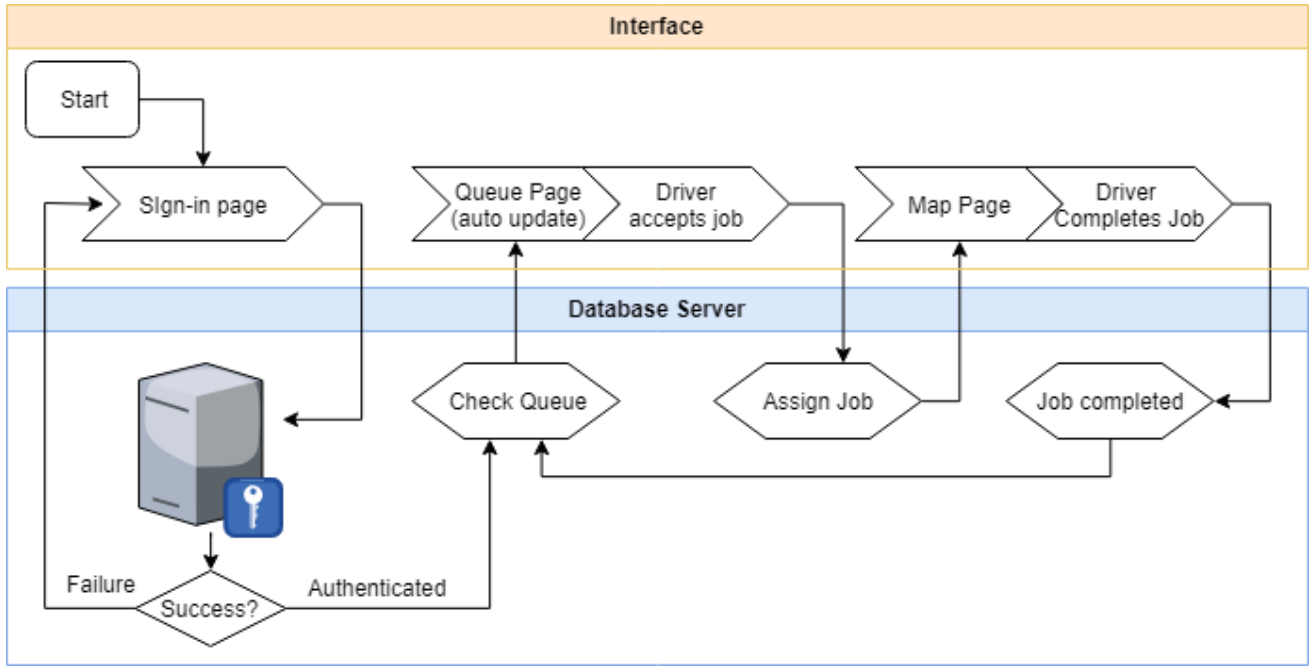
- Accept ride requests
- Confirm ride completion
- Provide rider information such as name and pickup location
- Contact rider



Structural Design



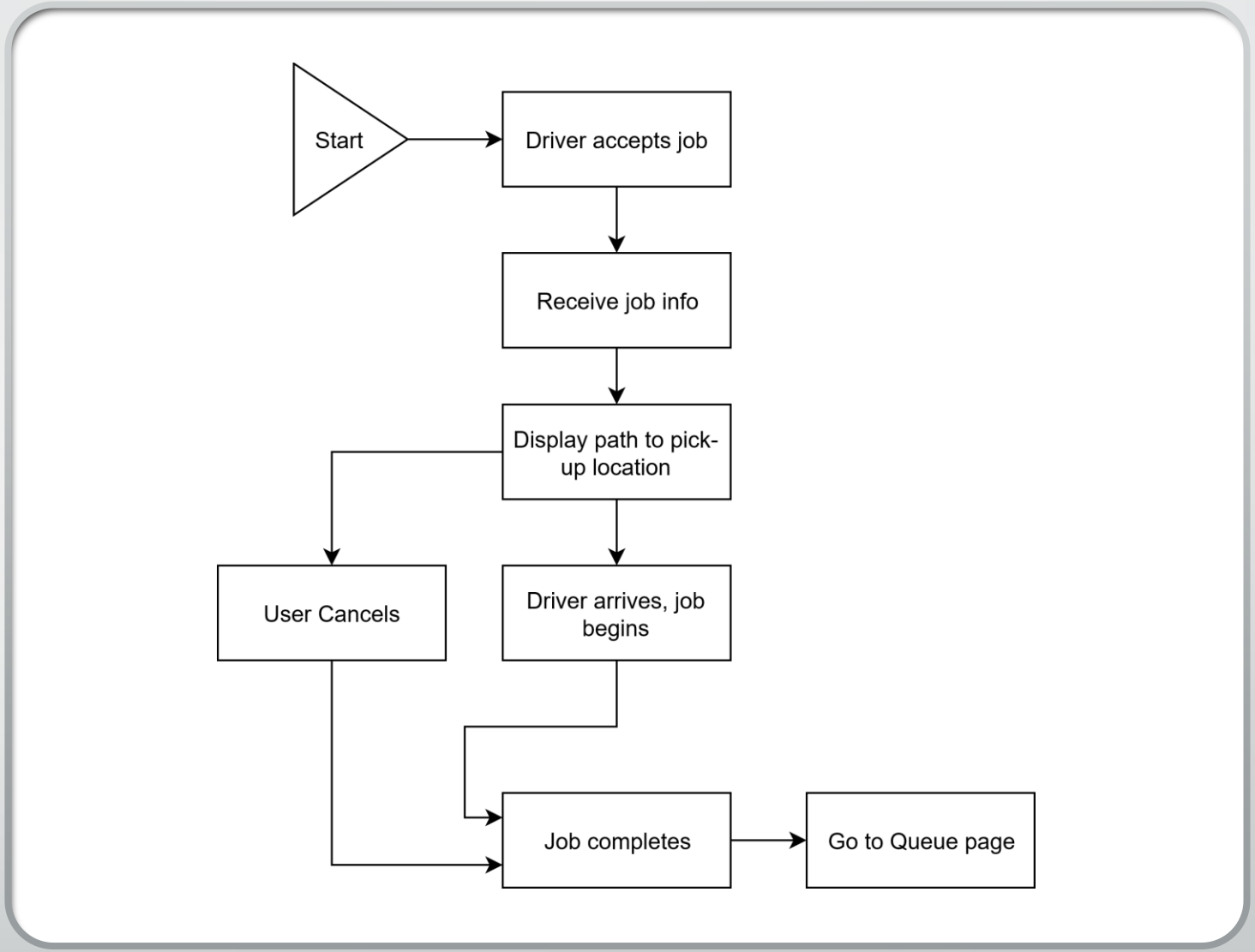
High Level Process Flow



Process Flow Diagram

Map Flow Diagram

- Map screen operation
- Shows functionality of main navigation component



User Interface

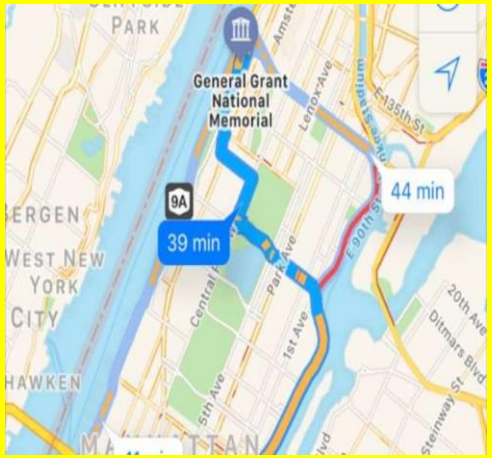
K.C. Cab

LOG IN

Username:

Password:

Accept Ride



Route to John Doe's location

END ROUTE

CALL CLIENT

Test Scenarios

- Important to ensure end to end functionality of Software
- Software Testing
- Put ourselves in the position of the users

Test Scenario

- Test Scenario 1: Check that the Driver can log in
- Test Scenario 2: Check that the Driver is provided with next ride
- Test Scenario 3: Check that the Driver can accept a pick-up request
- Test Scenario 4: Exchange information between the driver and client
- Test Scenario 5: Maps is used properly to navigate to the client's location

Development Tools

- Xamarin
- Debian with SQL Server
- Server side program using Java with Rest API

Xamarin

- Multi-platform development
- Uses C#
- Easily portable to iOS
- Is compatible with android emulator and an iOS emulator

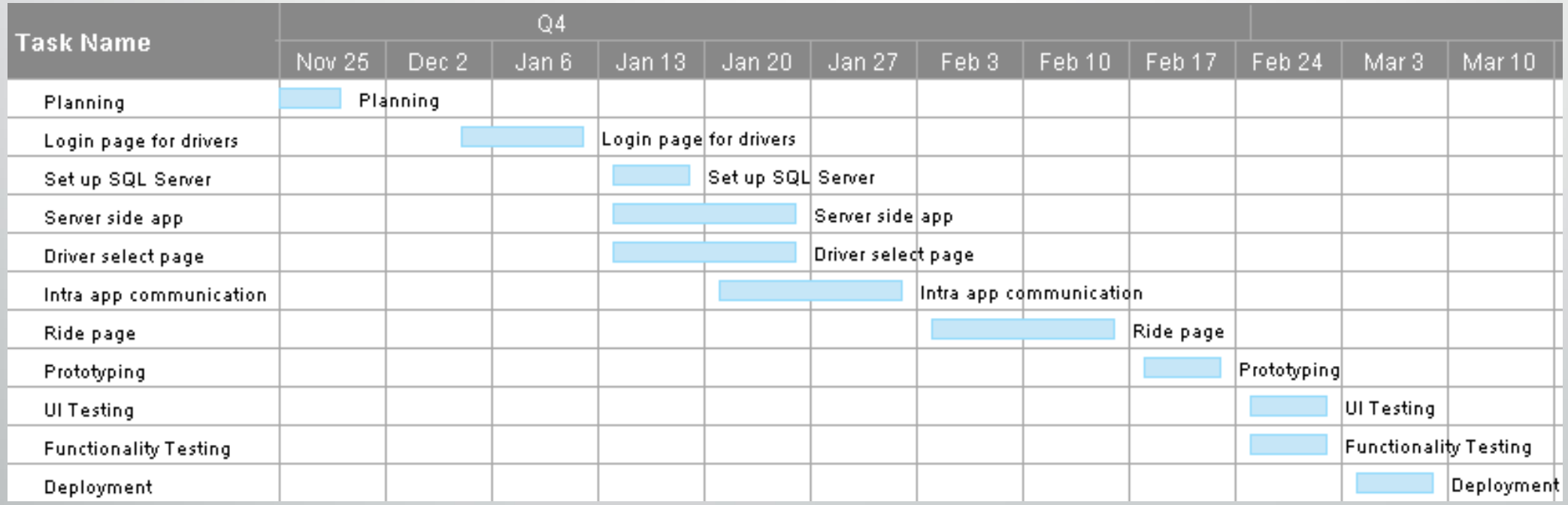
Debian with SQL Server

- Easy installation
- Allows easy storage of data
- Works with Java REST server program.

Server side program using Java with Rest API

- **RE**presentational **S**tate **T**ransfer
- Rest separates the client and server
- Compatible with SQL Server
- Easily integrate client-side app

Development Schedule



Meeting Schedule

- Meet with client bi-weekly email update weekly
- Meet with supervisor weekly
- Meet with each other daily for 15 minutes

Conclusion

- Problem
- Solution
- Feasibility