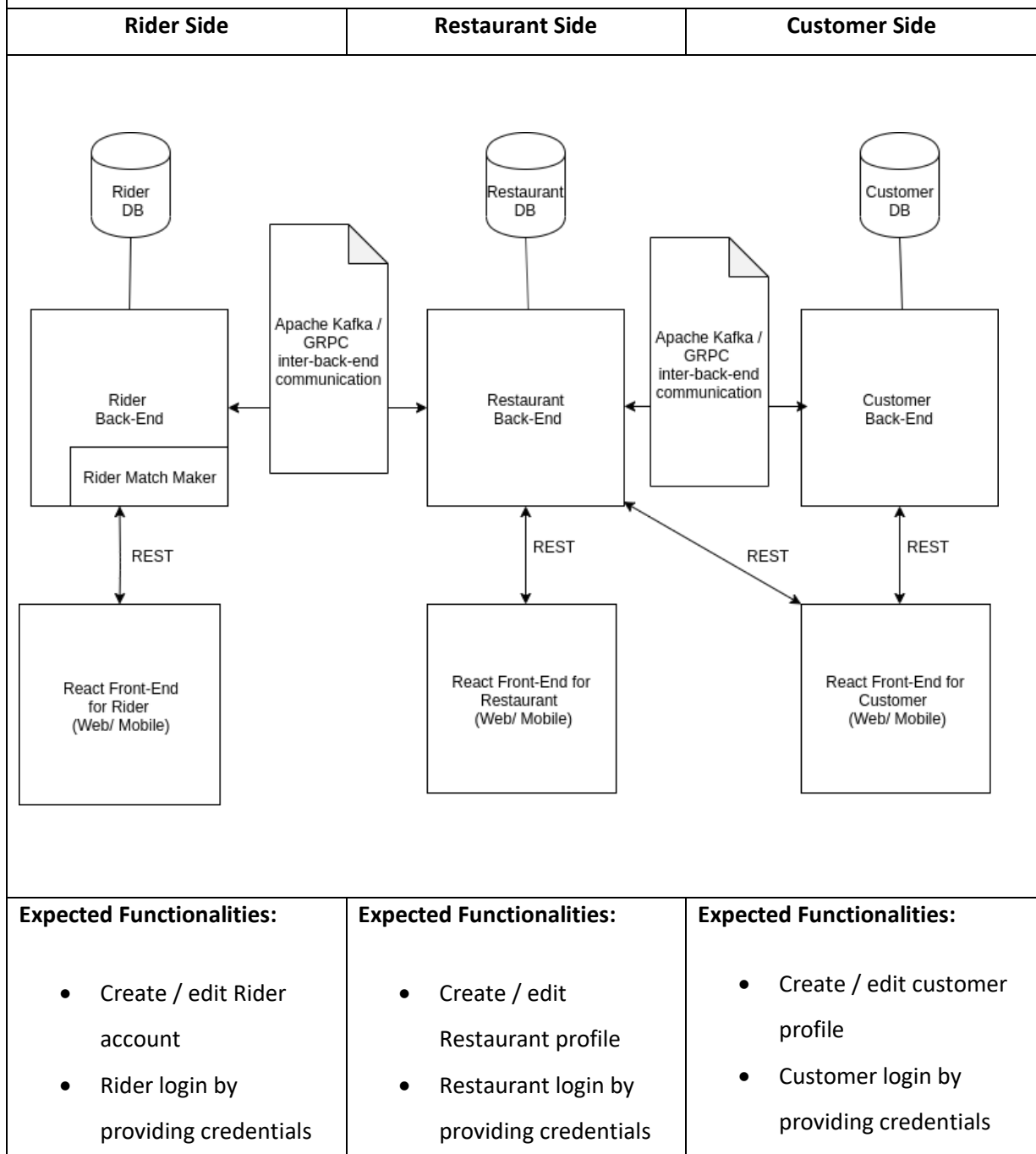


AccelAero Programming Challenge – Level 1

Challenge 4: Food Delivery App

The task is to develop a taxi hailing app and its back-end services (e.g.: Uber Eats / PickMe food). This project is divided into three major sections as described in the high-level diagram below. You may choose one side of the project while one of your colleagues will work on the other side(s). You should develop your side of the project independently. However, you are expected to agree on APIs / Inter-back-end communication with other colleagues who are developing the other sides of the solution for all the sides to be integrated seamlessly into a working product.



<ul style="list-style-type: none"> • Update rider location and availability for making deliveries • Accept delivery requests from restaurants • Accept food from restaurants • Deliver to customer and update delivery status 	<ul style="list-style-type: none"> • Create / edit menu by adding / editing / deleting food items • Accept orders from customers • Requesting riders for deliveries 	<ul style="list-style-type: none"> • Search for restaurants / food items • Order food • See payment amount and pay to the rider on delivery
---	--	--

Technologies and Architecture:

- Back end – **JAVA 17, Spring Boot, Gradle**
- Login – **Spring Security**
- Database – **Couchbase / Postgress / MySQL** (Select as per your choice.)
- Front end – **Ant Design Pro** (or any other design library as per your choice) and **React**
- Inter-back-end communication – **Apache Kafka / gRPC and protobuf** (Select as per your choice in agreement with the colleague doing the other side(s) of the project.)
- Deployment – **Docker** (Dockerize all the back-end services and front-end apps.)
- Repository and Version Control– **Git and Bit Bucket**
- Architecture – **Micro-services**

Instructions:

- You are required to submit a daily plan for the project period on the day following the issued date of this assignment.
- You are expected to provide your mentor a daily update on the tasks you have performed, daily work plan, and the project status.
- You may ask for help or learning opportunities, problems, and clarifications on the relevant technologies, architecture and project from any employee of the company. We are more than eager to help you.
- You will be sent an email with some of the learning resources.
- A demo is expected to be done on the day following the deadline date.