

Requirement

1. Case : Create e-commerce application flow that includes :
 - a. Login
 - b. Checkout
 - c. Payment

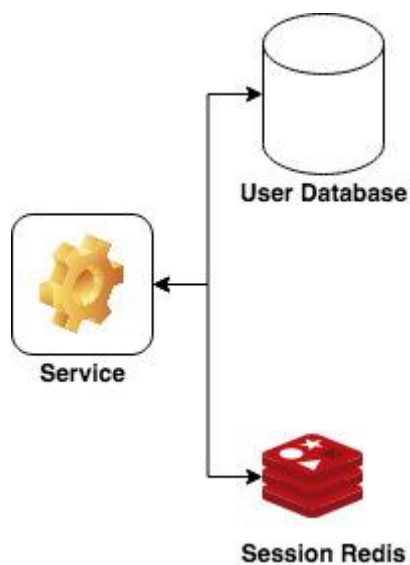
Design

To make the mvp have a more simpler architecture, the application will be built with a monolithic approach. But, it will be built using clean code architecture. This is so that should the need for moving to microservice arises, the refactor can be done easily.

Tech Stack

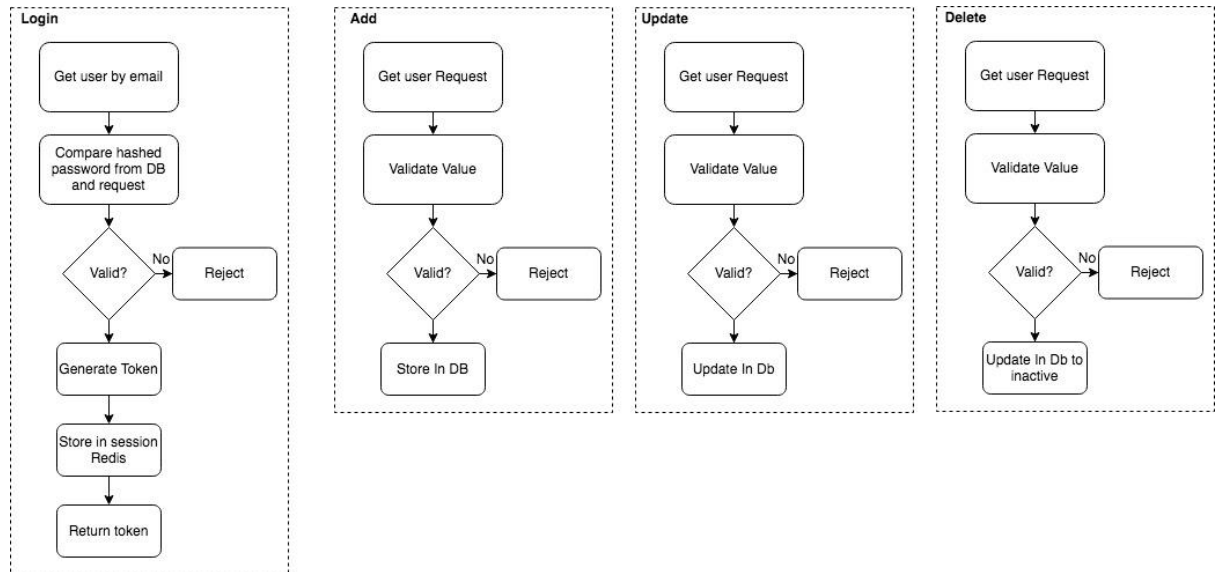
1. Golang
2. PostgreSQL
3. Redis
4. Docker

Application Diagram



Login API

1. Flow Diagram

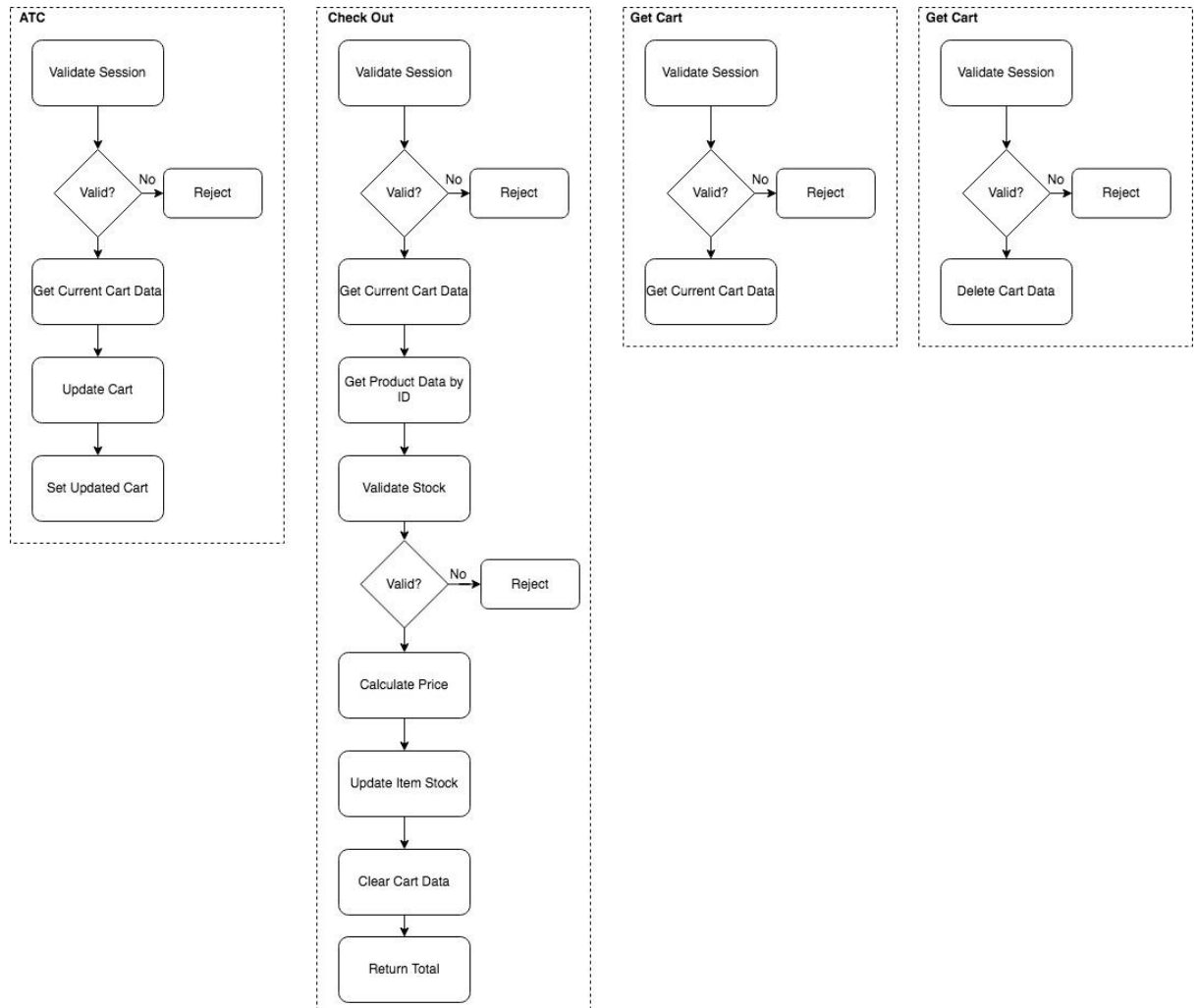


2. Database Schema

Name	Type	PK
ID	BIGSERIAL	Yes
Email	TEXT	
address	TEXT	
password	TEXT	
is_active	BOOL	

Cart API

1. Flow Diagram

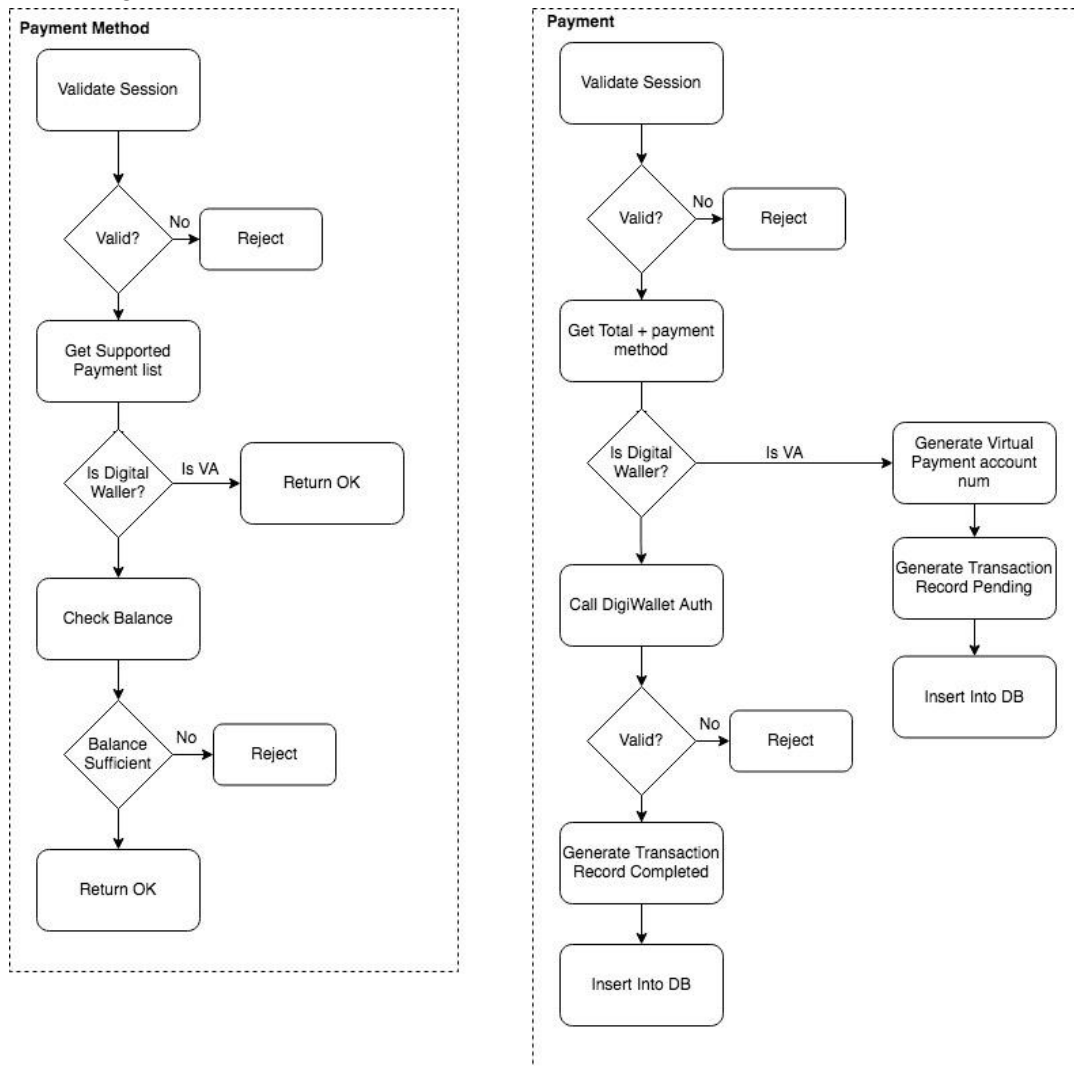


2. Database Schema

Name	Type	PK
ID	BIGSERIAL	Yes
Name	TEXT	
Quantity	INTEGER	
PRICE	INTEGER	

Payment API

1. Flow Diagram



2. Database Schema

Name	Type	PK
ID	BIGSERIAL	Yes
Invoice_ID	TEXT	
Status	TEXT	
Method	TEXT	
Nominal	INTEGER	
Created_Date	DATE	
Last_updated	DATE	