

## Submission information

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The backend framework used for implementation is Spring Boot and MySQL is used as the RDBMS for storage.

**all.sql** file contains the table and trigger creation codes and sample insertions for ease of testing.

**internship.postman\_collection.json** file is the export of collection of Postman requests for the APIs created. As most of the API requests contain a request body, the body present in the collection will be helpful in understanding and testing on your end. For testing, feel free to change the database url used for connection.

New tables that are created are:

**bank\_account** (Simulates bank that payments interact with)

account_no	VARCHAR(20)	PRIMARY KEY/PK
name	VARCHAR(50)	
amount	INT	

**wallet\_info** (Simulates E-wallet. It links with the bank account)

id	BIGINT	PK
company_name	VARCHAR(20)	
account_no		one-to-one with bank_account.account_no

**online\_payment\_info** (Simulates online payment data. It too links with bank account).

id		
company_name		
account_no		1-to-1 with bank_account.account_no

**wallet\_user** (This relation maps wallet with user of e-commerce database. This is necessary to identify wallet)

company_name		
user_id		many-to-many with users.id
client_id		1-to-1 with wallet_info.id

**online\_payment\_user** (This relation maps online payment user with user of e-commerce database).

company_name		
user_id		many-to-many with users.id
client_id		1-to-1 with online_payment_info.id

**payment\_info** (Stores address of user)

user_id		1-to-1 with users.id
address	VARCHAR(255)	

**cart**

id		id of cart. Multiple entires of a cart share same id
user_id		

product_id		
quantity		quantity of product
checkout_status		U for in-progress; C for checked out
checkout_time	DATETIME	Checkout time

Checkout\_history (description present in all.sql file).

## **APIs**

### **Cart**

/cart/addProduct: Adds a product to cart

/cart/removeProduct: Removes product from cart

/cart/decrementProduct: Reduces quantity of the product in cart by 1.

/cart/history: Returns all carts

### **User**

/user/addShoppingInfo: Adds address and payment details (wallet or online payment) of the user specified

### **Payment**

/payment/balance: Returns bank balance of a user (For testing purposes)

/payment/product: Checks out the product

/payment/cart: Checks out the cart