Report
Web Programming Project

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Blueprints

- Topic introduction
- Project Structure
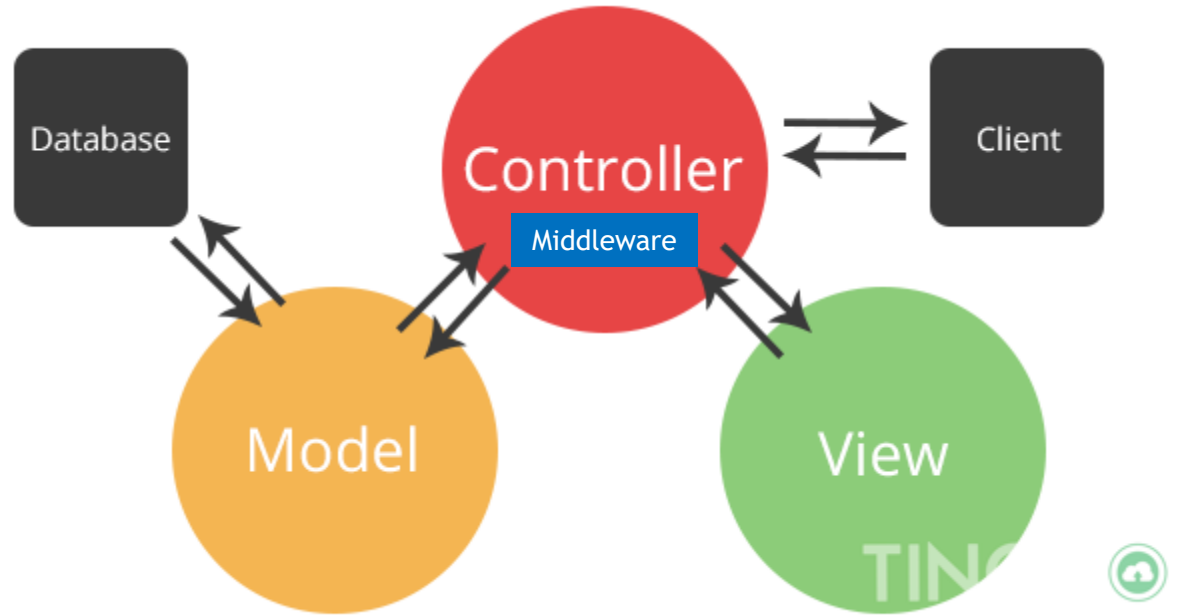- General use case
- Database design
- Notable Implementation

Topic introduction

- The needs of shopping
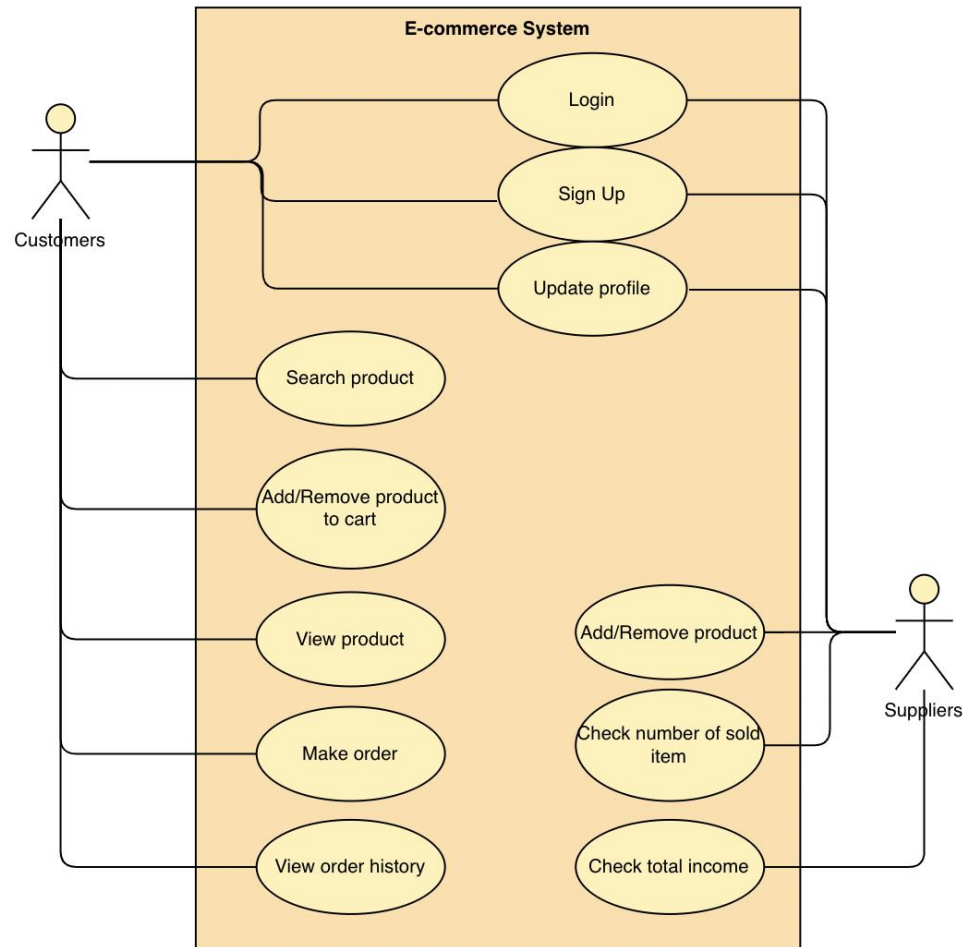- Shopping online is easier and more convenient
- ⇒ **E-commerce Web Application**

Project structure

- Project
  - client
    - network (Model)
    - component (View + Controller)
  - service
    - database (Model)
    - route (Controller)
- Technology
  - Front-end: ReactJS
  - Backend: ExpressJS, Mysql

General use case

Entity Relationship Diagram
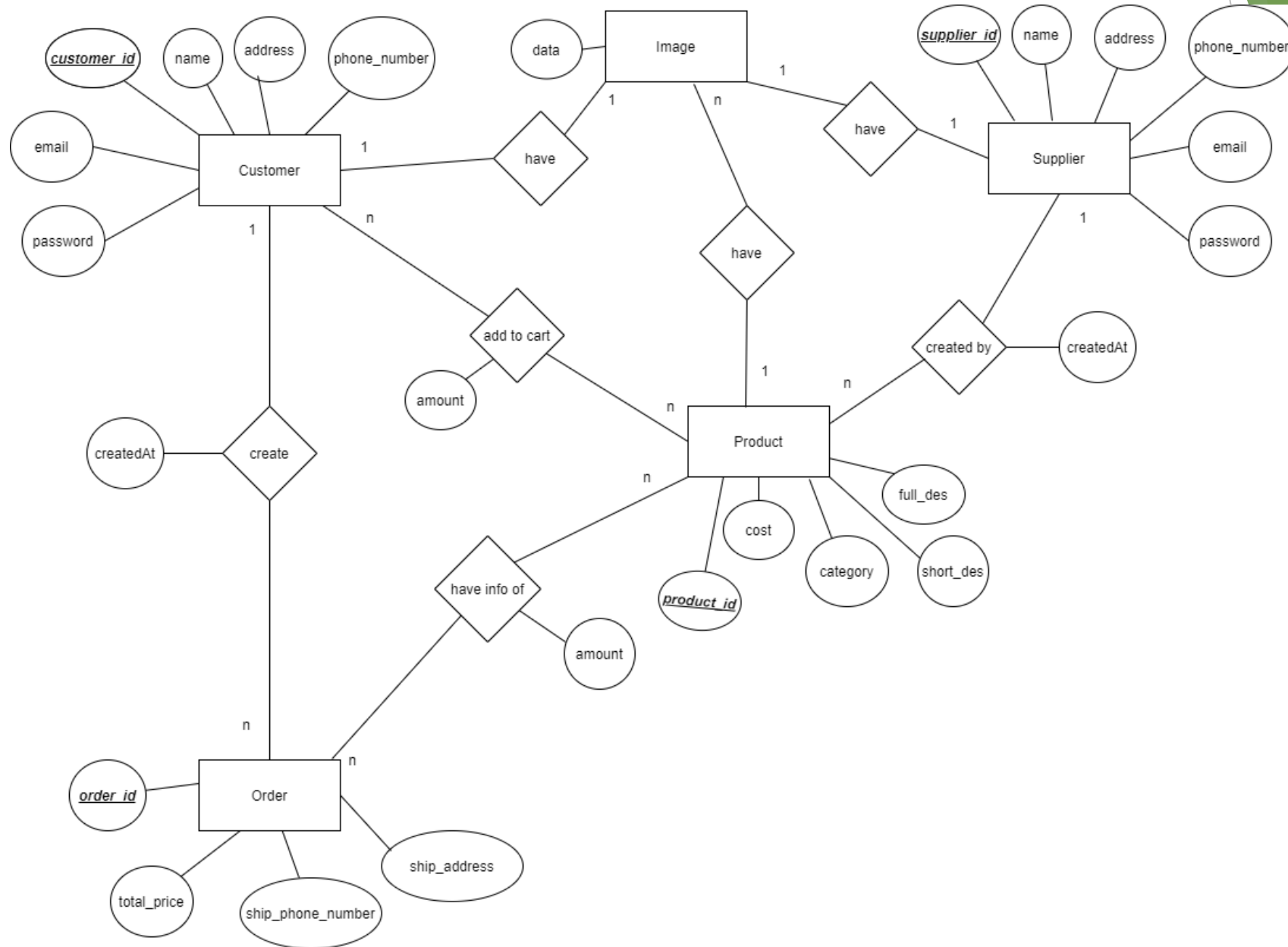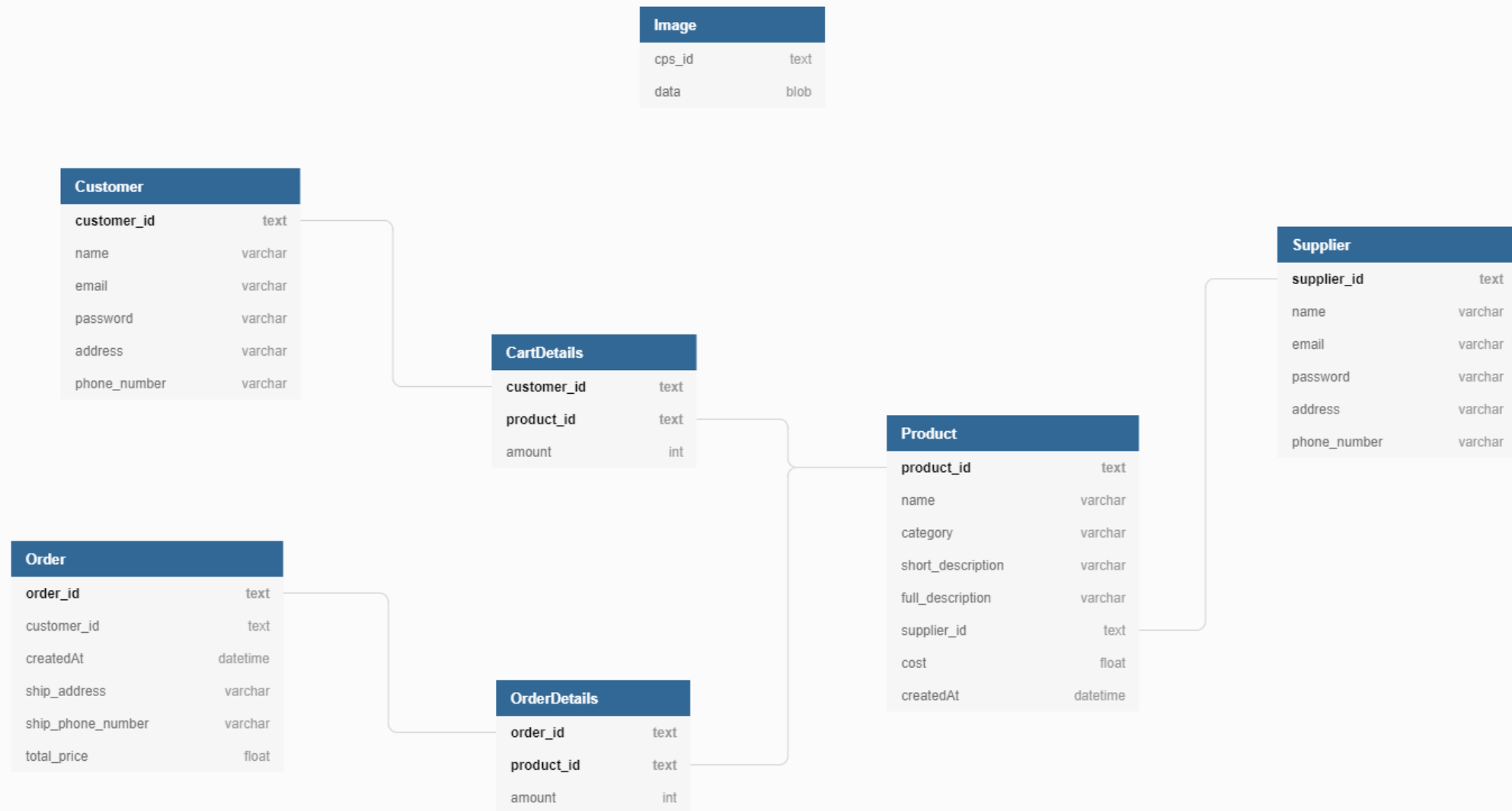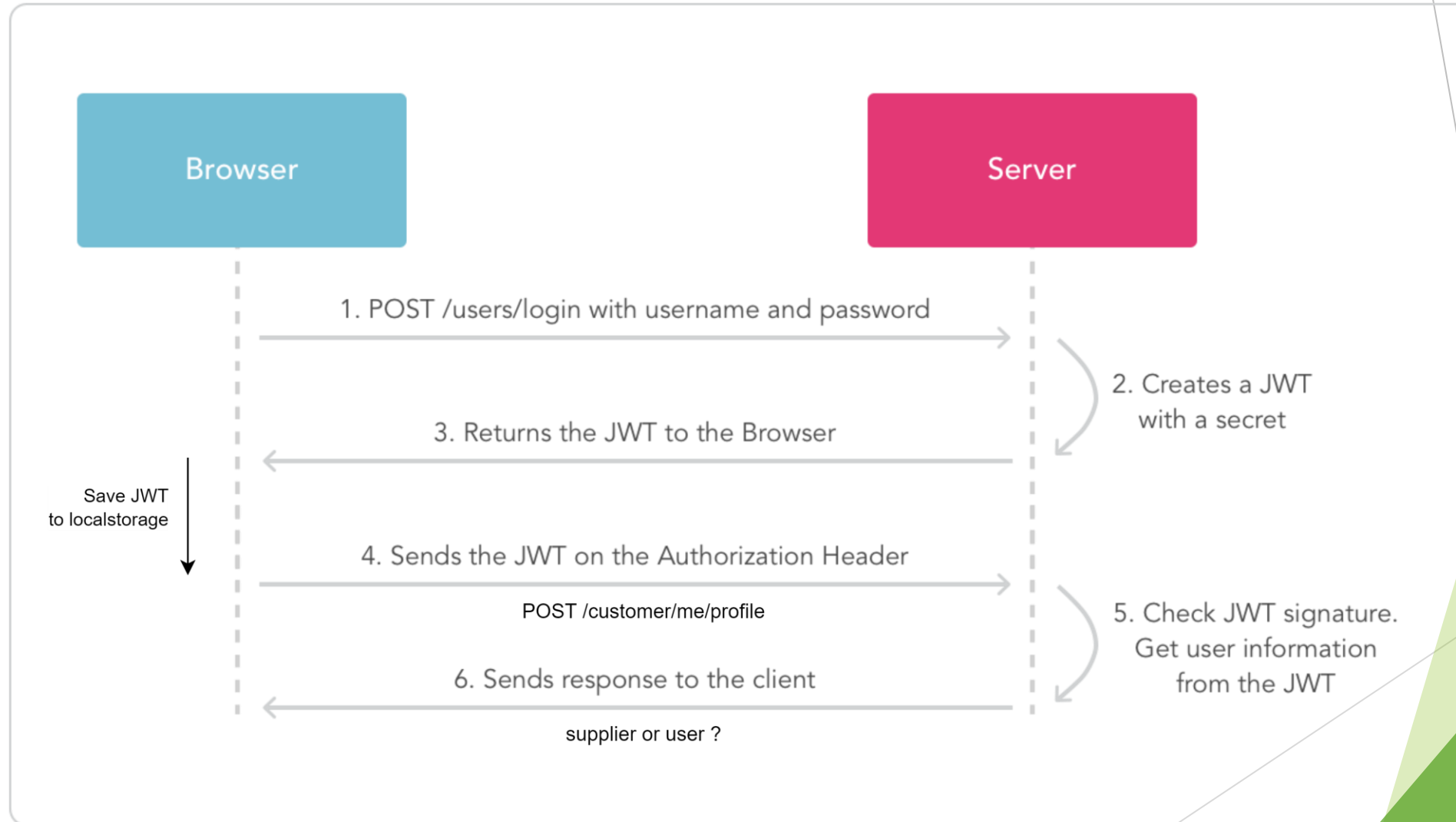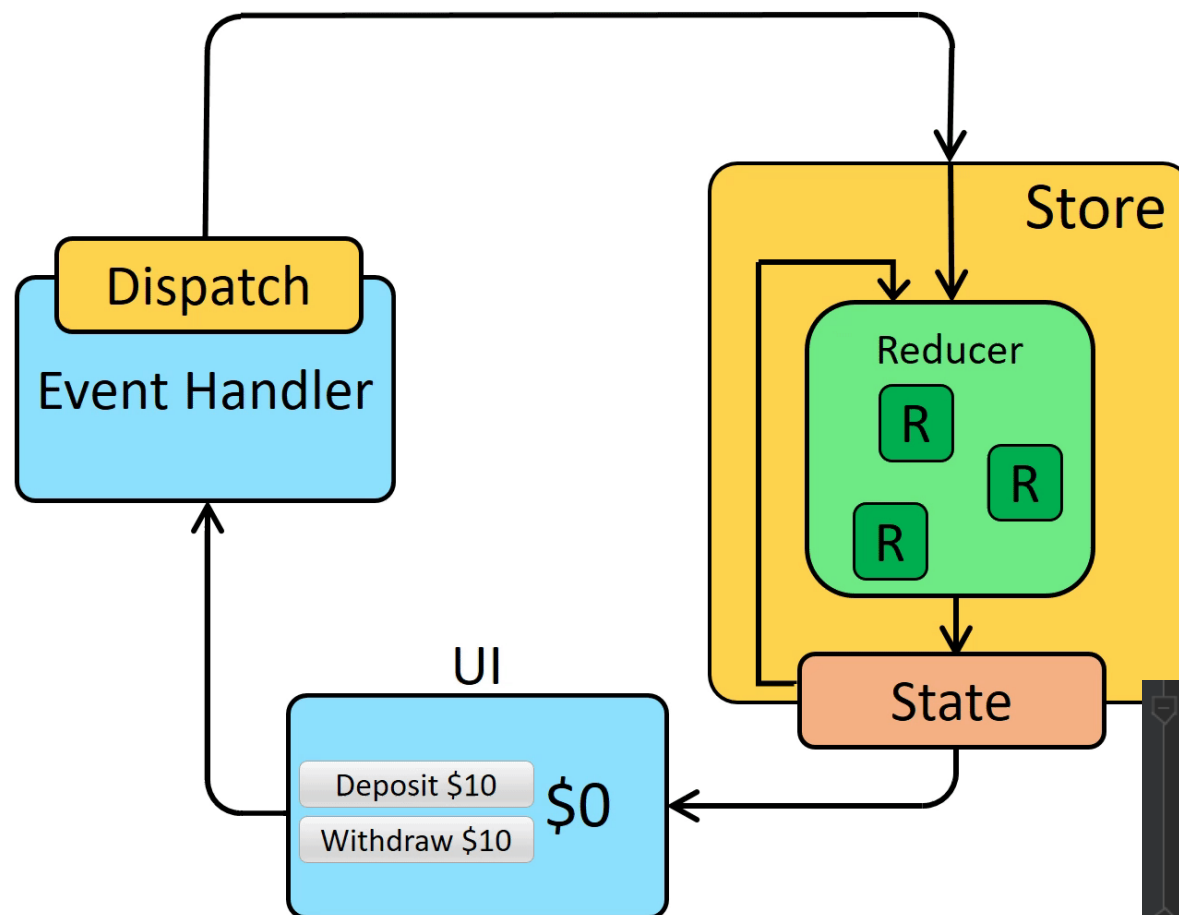
Table Relationship Diagram

Implementation: Authentication

Implementation: Redux

CRUD products, users, orders...

```
const store = createStore(combineReducers( reducers: {
    allProducts: allProductsReducer,
    user: userReducer,
    cart: cartReducer
}))
```

Implementation: RESTful API

Group	Title	Route	Desc
Cart	Get cart by userId	/cart/get	Get items in the cart by userId
	Delete cart	/cart/delete	Delete cart and its items by userId
	Add cart item	/cart/addItem	Add one item to cart
	Remove cart item	/cart/removeItem	Remove item from cart
	Update cart item	/cart/updateItem	Update item in cart
Customer	Sign up	/customer/signUp	Post customer's info and create an account
	Sign in	/customer/logIn	Validate log in info
	Get user profile	/customer/me/profile	Get user's profile by userId (requires auth)
	Update user profile	/customer/me/updateProfile	Update user's profile info (requires auth)
		…	

Work distribution

Full name	Student ID	Work
Nguyen Thanh Long	20180128	Develop service
Chu Manh Hai	20184253	Design system, Develop pages for supplier
Bui Manh Tu	20194870	Develop pages for customer, Redux

Thank you for listening