E-Wallet Application PRD

Features/Functionalities:

- User of E-Wallet can transfer Money to Some other User.
- User will have their account with current balance which will be incremented/decremented based on transactions
- User should be able to see recent n transactions.
- Whenever a user transacts, they should be getting email notification about their transaction.
- User should be able to update/delete their account.
- Whenever User registers, He/she should get the welcome amount in wallet.(Communication between User and Wallet using Kafka).
- Whenever there is any Transaction, Notification Service should send the Mail to User(For Sms - 3rd Party Integration required)

Application Design:

- E-Wallet will be Parent Application Containing Various Microservices (E.g. - User Service, Transaction Service, Notification Service, Wallet Services, etc) with each service having its own database.
- Application Should follow Microservice Architecture. Communication between services should be done using Kafka.

Methods:

- UserController:
  - @PostMapping("/user") public void createUser(@RequestBody UserCreateRequest userCreateRequest)
  - @GetMapping("/user") public User getUserDetails()
  - @GetMapping("/admin/all/users") public List<User> getAllUserDetails()
  - @GetMapping("/admin/user/{userId}") public User getUserDetails(@PathVariable("userId") String userId)
- TransactionController:
  - @PostMapping("/txn")   public String initiateTxn(@RequestParam("receiver") String receiver, @RequestParam("purpose") String purpose, @RequestParam("amount") Double amount