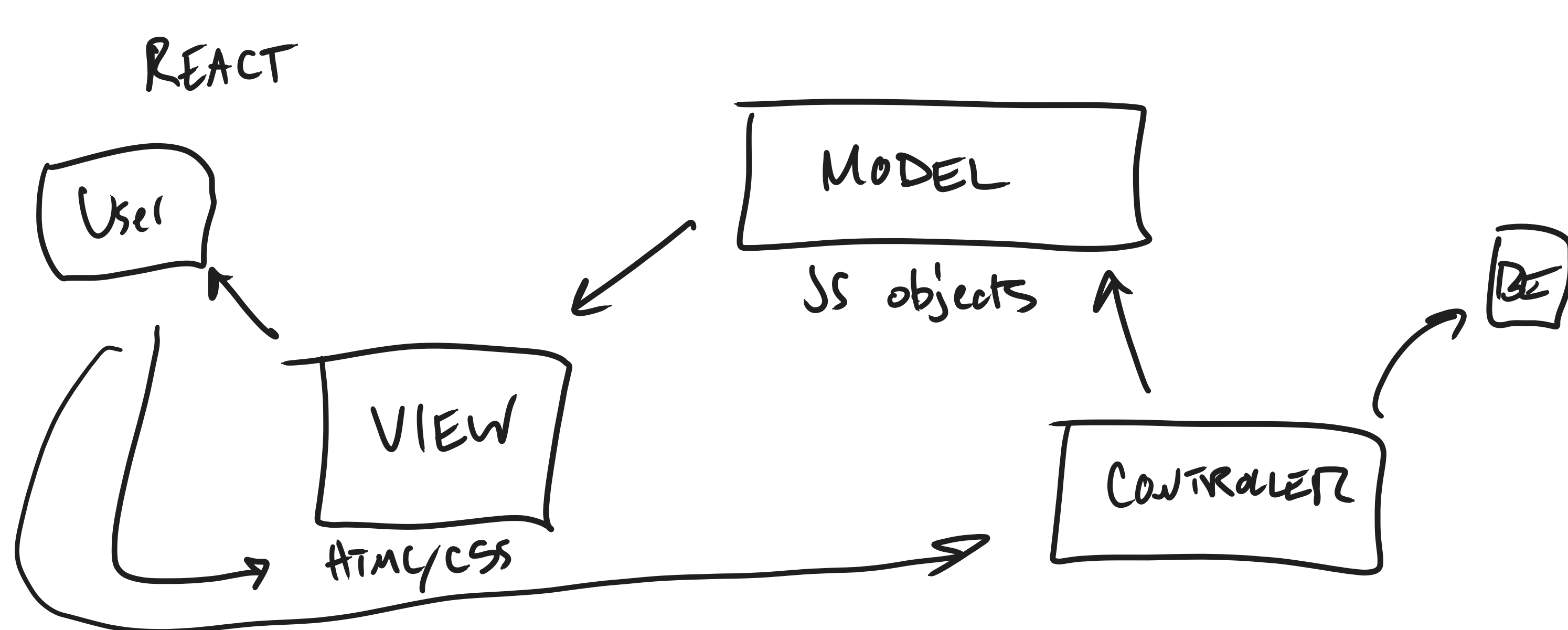
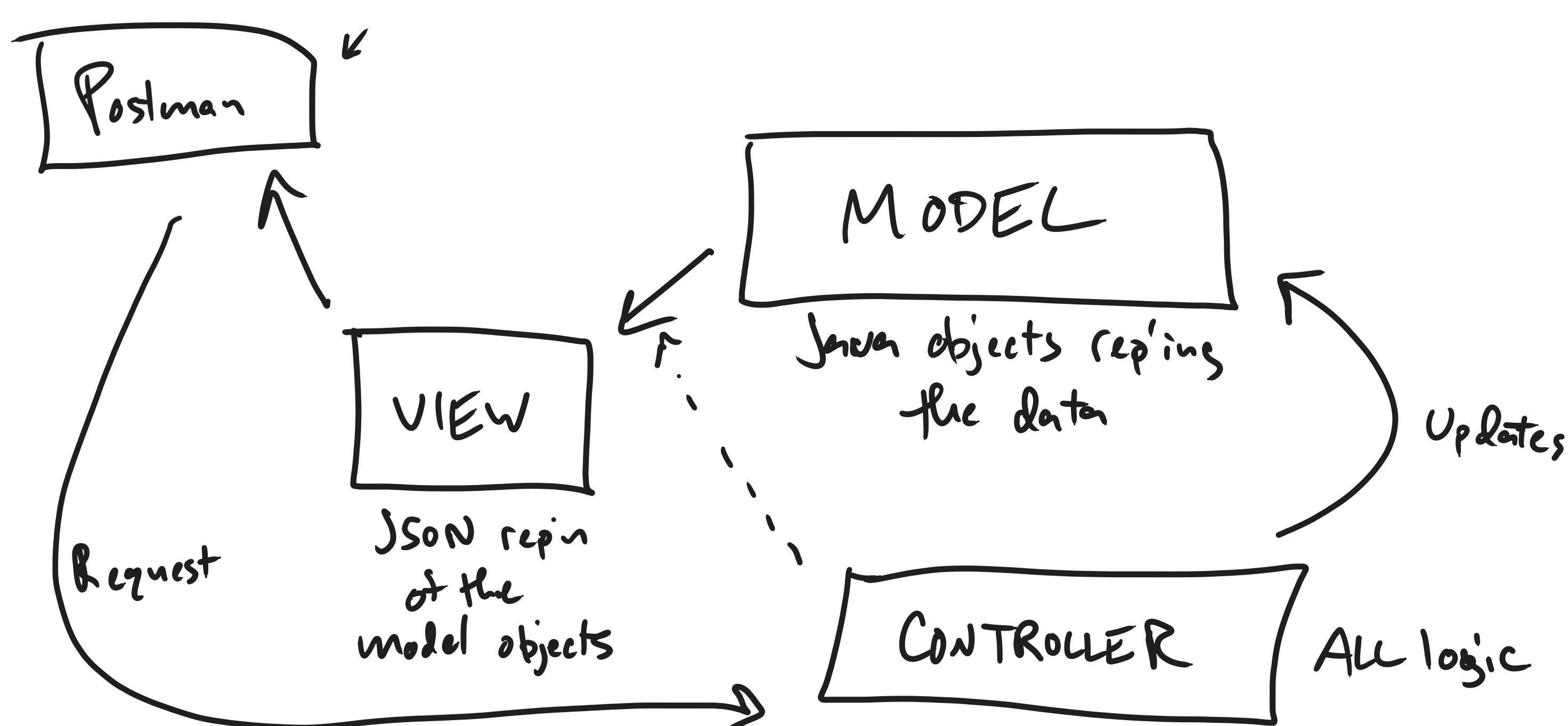


SPRING (BOOT) FRAMEWORK

- Backend framework for REST APIs
- MVC Framework
 - ↳ Model - current representation of data
 - View - what the user sees/receives
 - Controller - any logic that updates the model



(BACK TO SPRING)

- Maven to build/launch
- Dependencies (Spring by default)
 - MySQL driver
 - Spring Data JPA (Java Persistence API)
 - incl. Hibernate ORM
 - ↳ Object-Relational Mapping
 - also things like @Transactional, @Entity
 - Spring Web
 - comes with a default embedded Tomcat server
- Devtools - auto-restart on save, etc.
- Spring Security - basic auth, cors, csrf, OAuth, etc.
- Spring Actuator - metrics about a running server
- Spring Cloud - microservices

basic
REST
API

FILES

- pom.xml - same function
- application.properties / application.yml
 - Configuration file for app
- (resources folder in use.)

Application Context

- overall environment in which the app is running
- anything made available in the context can be used
- Beans
 - methods/classes made available to the context
 - you can inject Beans w/o instantiating them directly
- Dependency Injection
 - if class A depends on an instance of class B
 - I can "inject" it if B is a Bean
 - In Spring, DI uses IOC
 - Inversion of Control
 - Context can only have ONE Bean of each type

Spring does a LOT of autoconfiguration

- searches for Beans within the package structure and makes them available