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Spring Boot



Spring Data JPA

Quick Start

Nguyễn Nghiệm





CRUD APPLICATION

CRUD Application

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

[Create](#) [Update](#) [Delete](#) [Reset](#)

			Edit Delete
			Edit Delete
			Edit Delete

CrudController

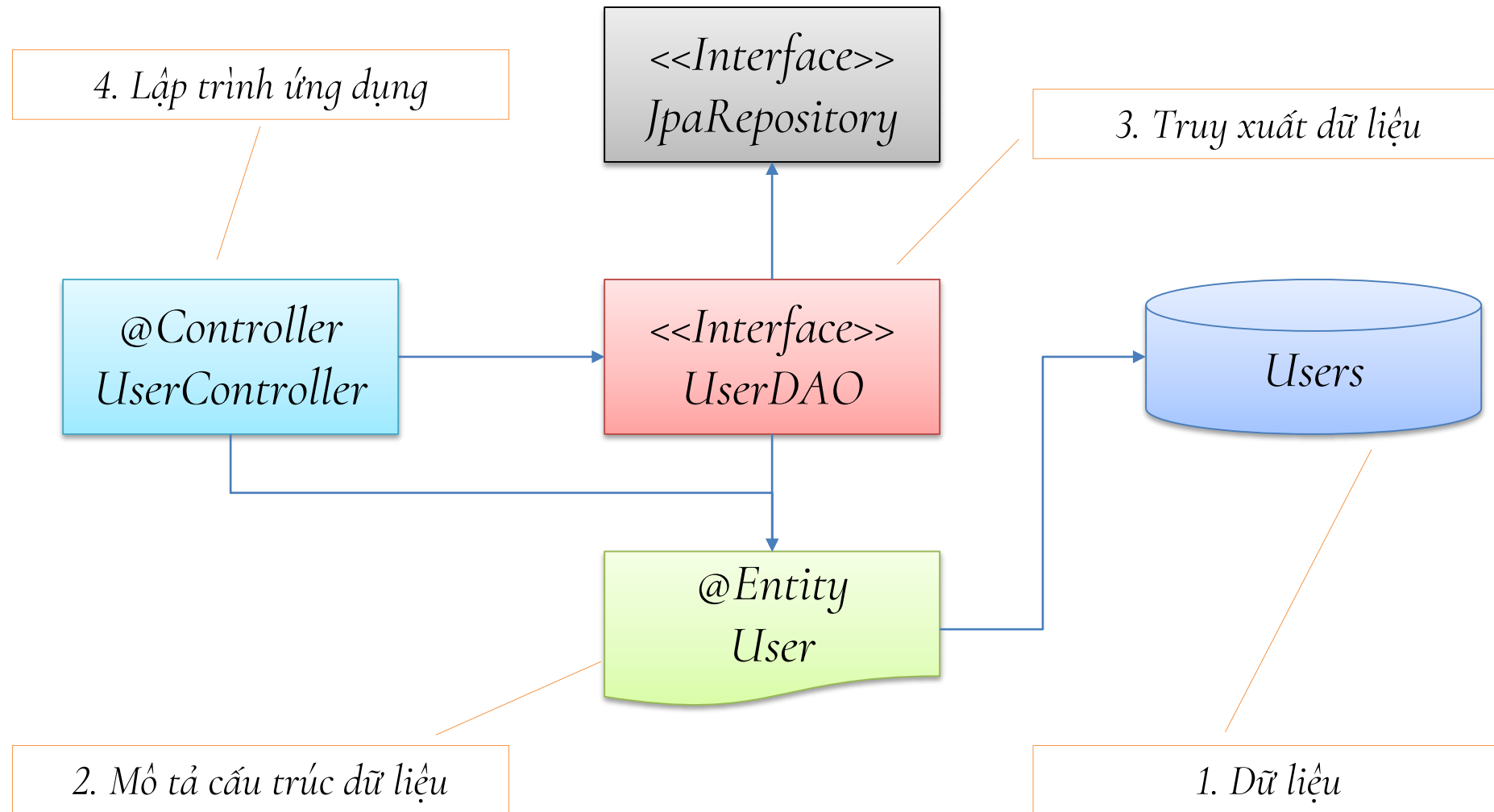
	@/crud/index
	@/crud/edit/{id}
	@/crud/create
	@/crud/update
	@/crud/delete/{id}

	CrudDAO	
--	---------	--





CRUD APPLICATION IMPLEMENTATION



@Controller

```
public class UserController {  
    @Autowired  
    UserDao dao;  
    @RequestMapping("/url")  
    public String method(){  
        List<User> list = dao.findAll();  
        User item = dao.getById(1000);  
        User item = dao.save(item);  
        dao.deleteById(1000);  
        ...  
    }  
}
```

4

@Data

```
@Entity @Table(name="Users")  
public class User{  
    @Id  
    @Column(name="Username")  
    String username;  
    @Column(name="Password")  
    String password;  
    @Column(name="Activated")  
    Boolean activated;  
}
```

2

```
public interface UserDao extends  
JpaRepository<User, String>{  
}
```

3

Column	Type
Username	VARCHAR(50)
Password	VARCHAR(50)
Activated	BIT

1



<!-- Spring Data JPA -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<!-- SQL Server Driver -->

<dependency>

<groupId>com.microsoft.sqlserver</groupId>

<artifactId>mssql-jdbc</artifactId>

<scope>runtime</scope>

</dependency>



APPLICATION.PROPERTIES

#SQL Server Driver

spring.datasource.driver-class-name=com.microsoft.sqlserver.jdbc.SQLServerDriver

spring.datasource.url=jdbc:sqlserver://localhost;database=DB

spring.datasource.username=sa

*spring.datasource.password=******

#Spring Data JPA/Hibernate

spring.jpa.show-sql=true

spring.jpa.hibernate.ddl-auto=none

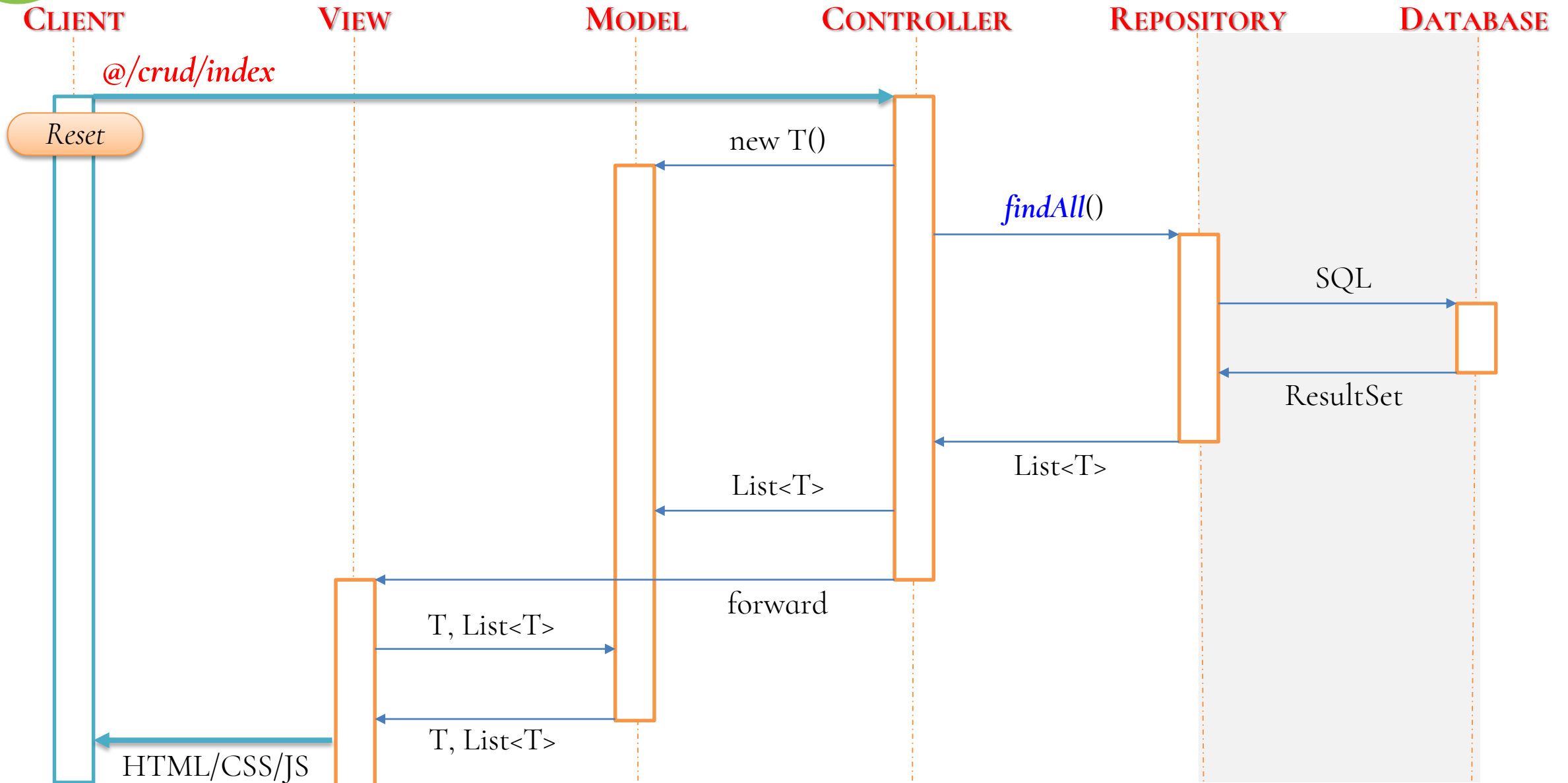
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.SQLServer2012Dialect



Demo

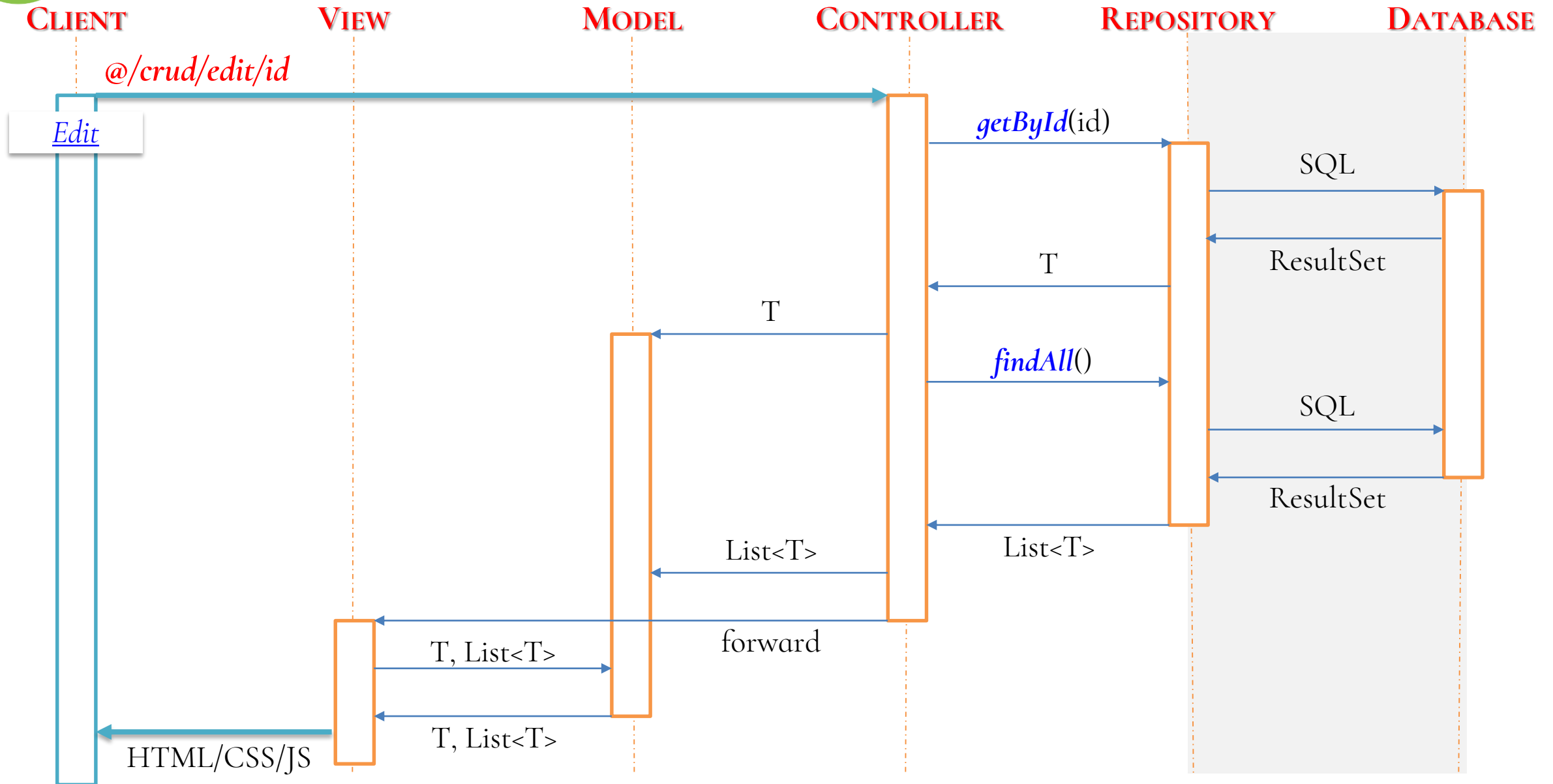


SEQUENCE DIAGRAM - @/crud/index



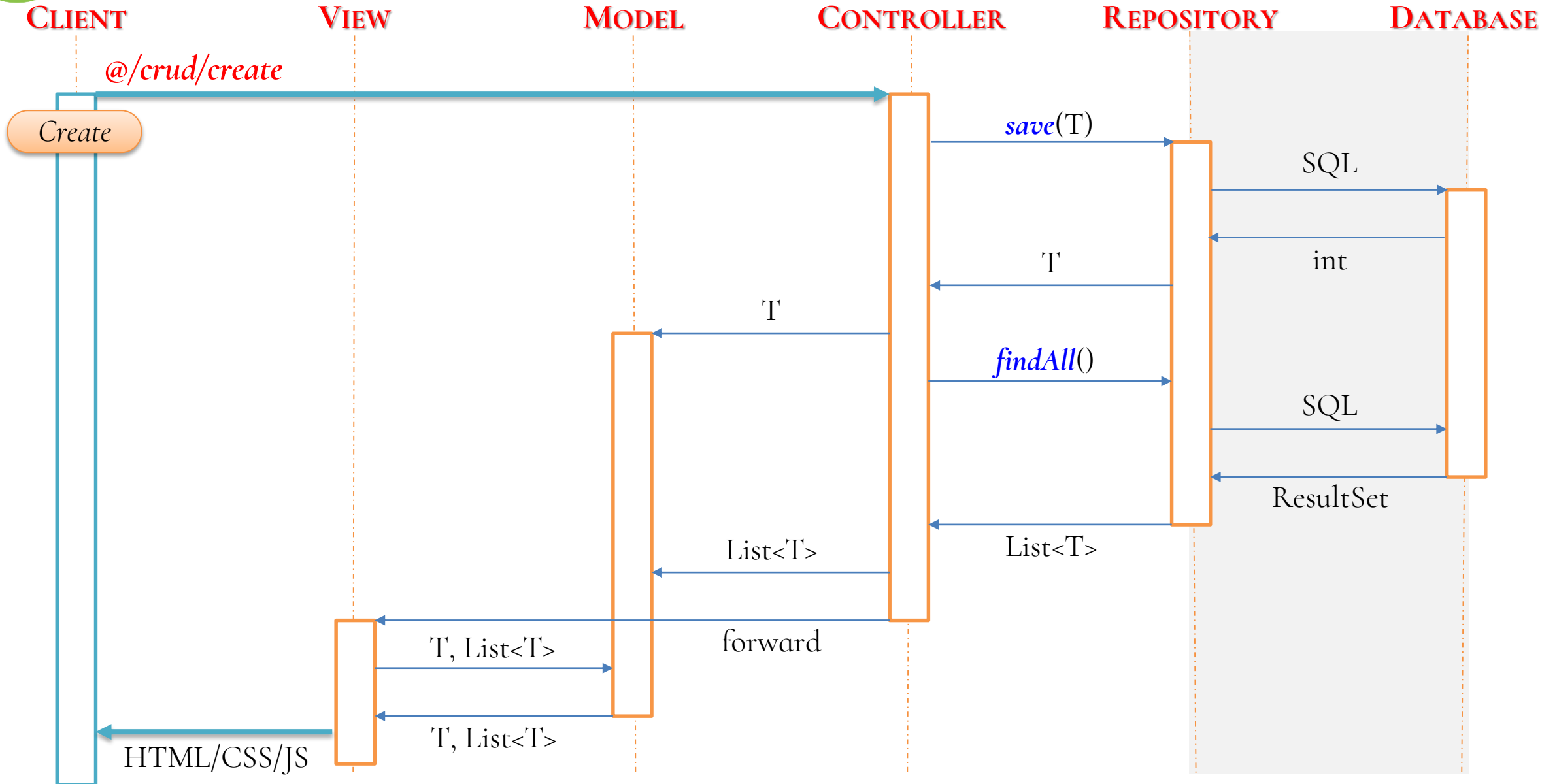


SEQUENCE DIAGRAM - @/crud/edit/{id}



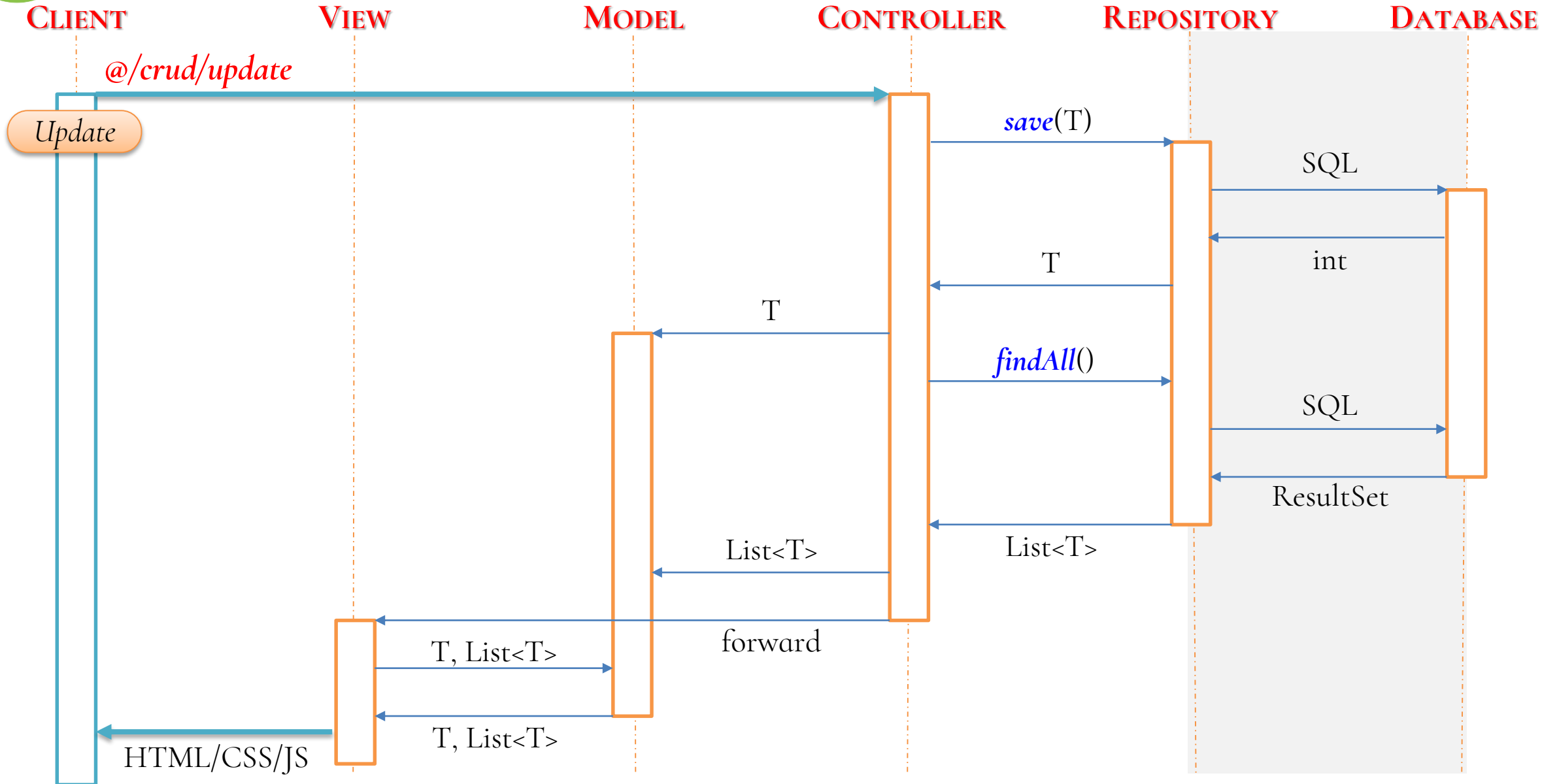


SEQUENCE DIAGRAM - @/crud/create



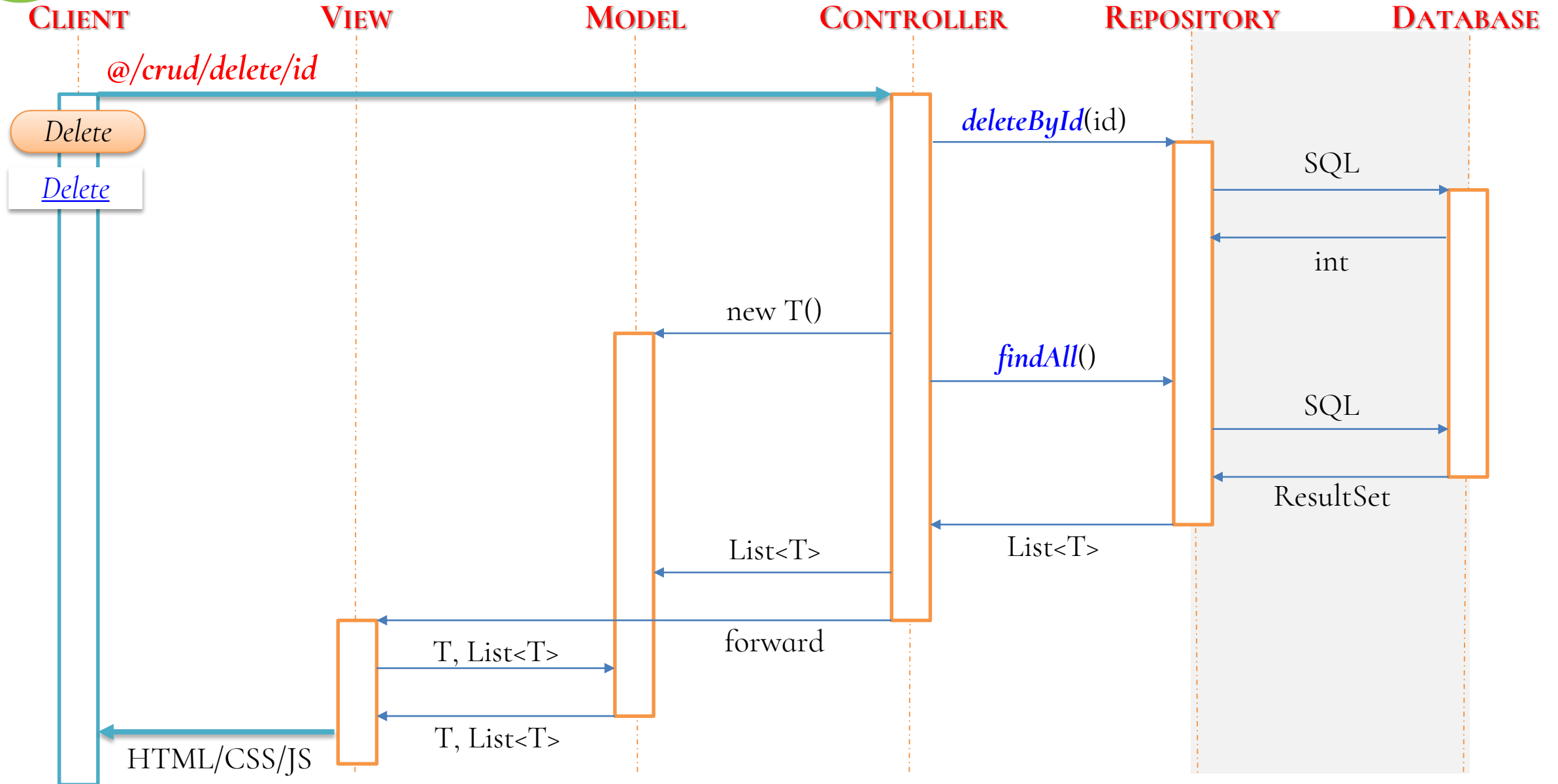


SEQUENCE DIAGRAM - @/crud/update





SEQUENCE DIAGRAM - @/crud/delete/{id}





TRUY VẤN

- ✓ *findAll()*: *List<T>*
- ✓ *findAll(Sort)*: *List<T>*
- ✓ *findAll(Pageable)*: *Page<T>*
- ✓ *findById(ID)*: *T*
- ✓ *findById(ID)*: *Optional<T>*
- ✓ *existsById(ID)*: *Boolean*
- ✓ *count()*: *long*

THAO TÁC

- ✓ *save(T)*: *T*
- ✓ *saveAll(Iterable<T>)*: *Iterable<T>*
- ✓ *deleteById(ID)*
- ✓ *delete(T)*
- ✓ *deleteInBatch(Iterable<T>)*

- *T* là kiểu của *@Entity*
- *ID* là kiểu của *@Id*
- *Sort* & *Pageable* là sắp xếp và phân trang (nghiên cứu sau)



☑️ TRUY VẤN

- ✓ *findAll(): List<T>*
- ✓ *findById(ID): T*
- ✓ *findById(ID): Optional<T>*
- ✓ *existsById(ID): Boolean*
- ✓ *count(): long*

☑️ THAO TÁC

- ✓ *save(T): T*
- ✓ *saveAll(Iterable<T>): Iterable<T>*
- ✓ *delete(T)*
- ✓ *deleteInBatch(Iterable<T>)*
- ✓ *deleteById(ID)*

