Leon's Pet Grooming Reservation System

CS 526 – Advanced Web Programming

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Agenda

01 | Introduction

02 | Use Case & Class Diagram

03 | UI & Database Design

04 | Spring Boot & React

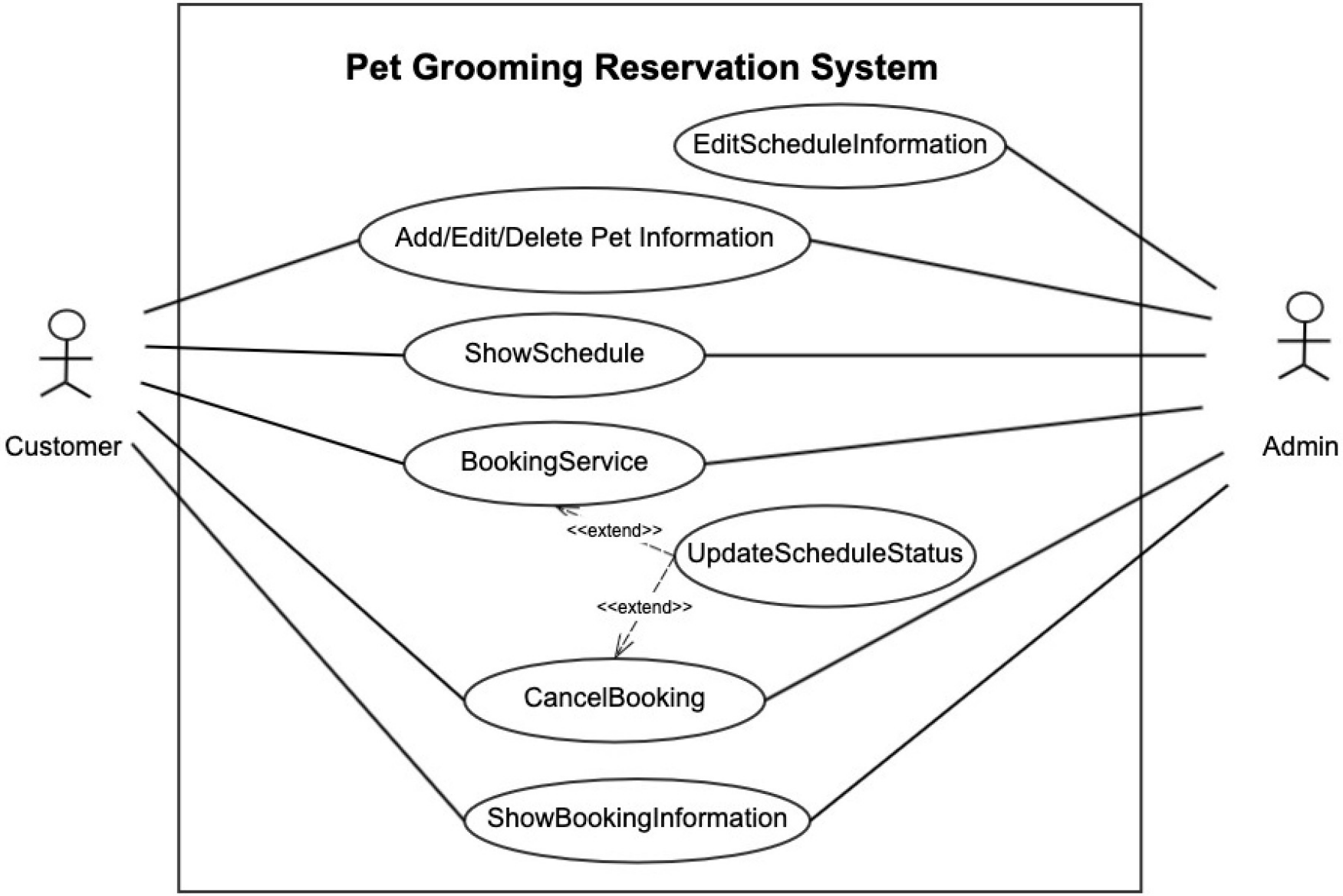
05 | Live Demo

Introduction

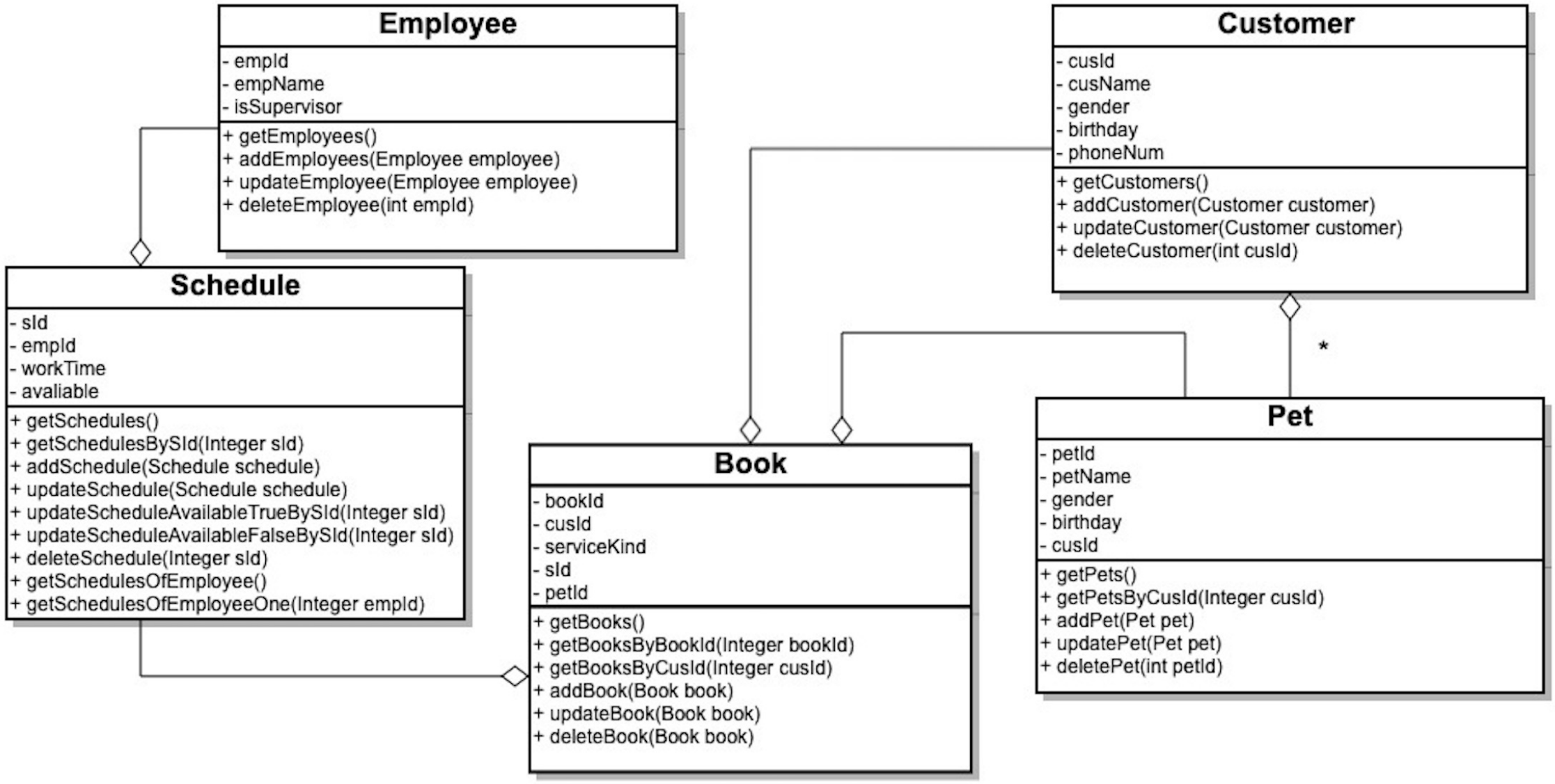
A website help customers book pet grooming services.

- Admin/Customer log in.
- Admin edits employee schedule.
- Customers edit pet information.
- Displays the booking time list.
- Customers make an appointment on choosing service kind and time.
- The appointment information will be displayed.

Use Case Diagram

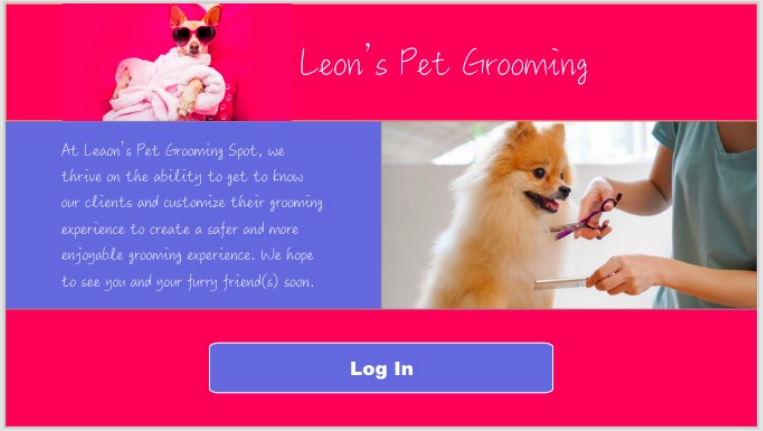


Class Diagram

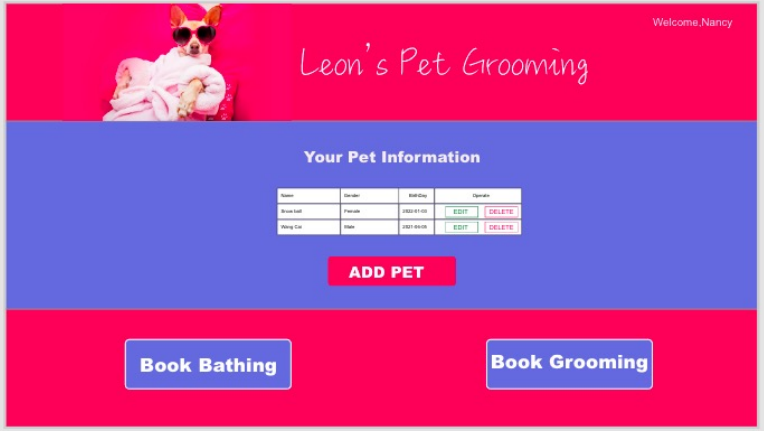


UI Design

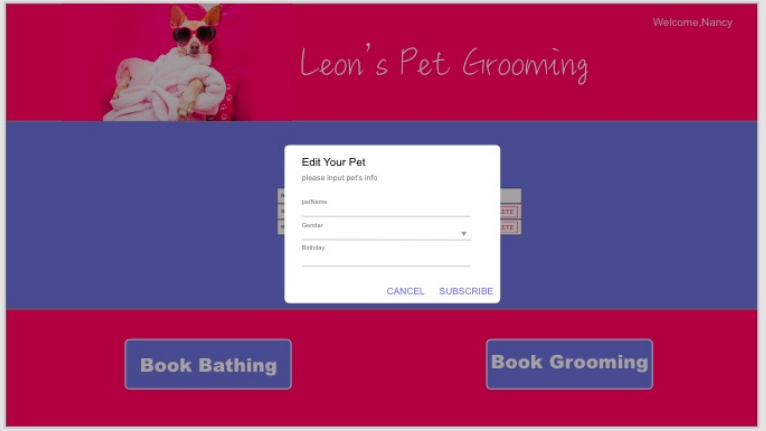
Log In



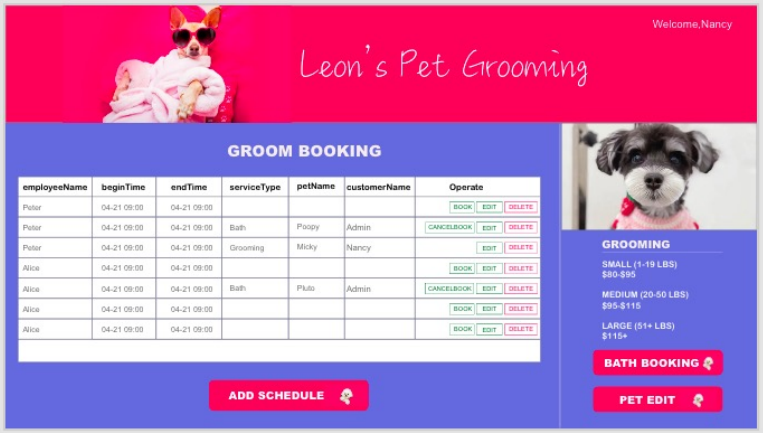
Pet Page



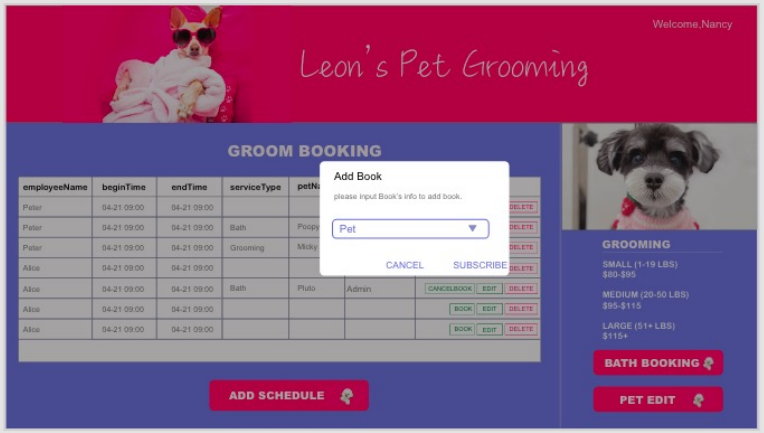
Pet Edit



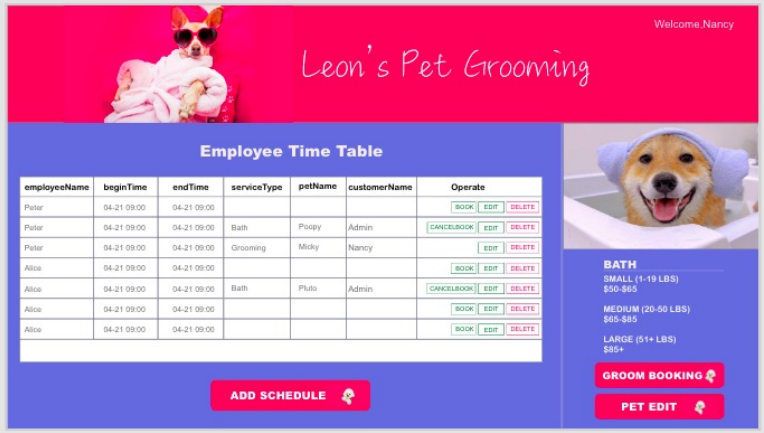
Grooming Service



Book Grooming Service



Bath Service



Database Design

Table Employee

	column name	datatype	description	note
1	emp_id	int	the id of employee	primary key
2	emp_name	varchar(20)	the name of employee	
3	is_supervisor	boolean	have priority to edit	

Table Schedule

	column name	datatype	description	note
1	s_id	int	the id of schedule	primary key
2	emp_id	int	the id of employee	
3	work_time	date	the worktime of employee	
4	available	boolean	Whether can be book	If booked, = False

Table Customer

	column name	datatype	description	note
1	cus_id	int	the id of customer	primary key
2	cus_name	varchar(20)	the name of customer	
3	gender	boolean	the gender of customer	0 = female, 1 = male
4	birthday	date	the birthday of customer	
5	phone_num	int	phone number of customer	

Table Pet

	column name	datatype	description	note
1	pet_id	int	the id of pet	primary key
2	pet_name	varchar(20)	the name of pet	
3	gender	boolean	the gender of pet	0 = female, 1 = male
4	birthday	date	the birthday of pet	
5	cus_id	int	the id of customer	

Table Book

	column name	datatype	description	note
1	book_id	int	the id of book	primary key
2	cus_id	int	the id of customer	
3	service_kind	int	the kind of service	0 = pet wash, 1= pet grooming, ...
4	s_id	int	the id of schedule	
5	pet_id	int	the id of pet	

React

Axios: is a promise-based HTTP Client for node.js and the browser.

Features

- Make XMLHttpRequests from the browser
- Make http requests from node.js
- Supports the Promise API
- Intercept request and response
- Transform request and response data
- Cancel requests
- Automatic transforms for JSON data
- Client side support for protecting against XSRF

useState,useEffect

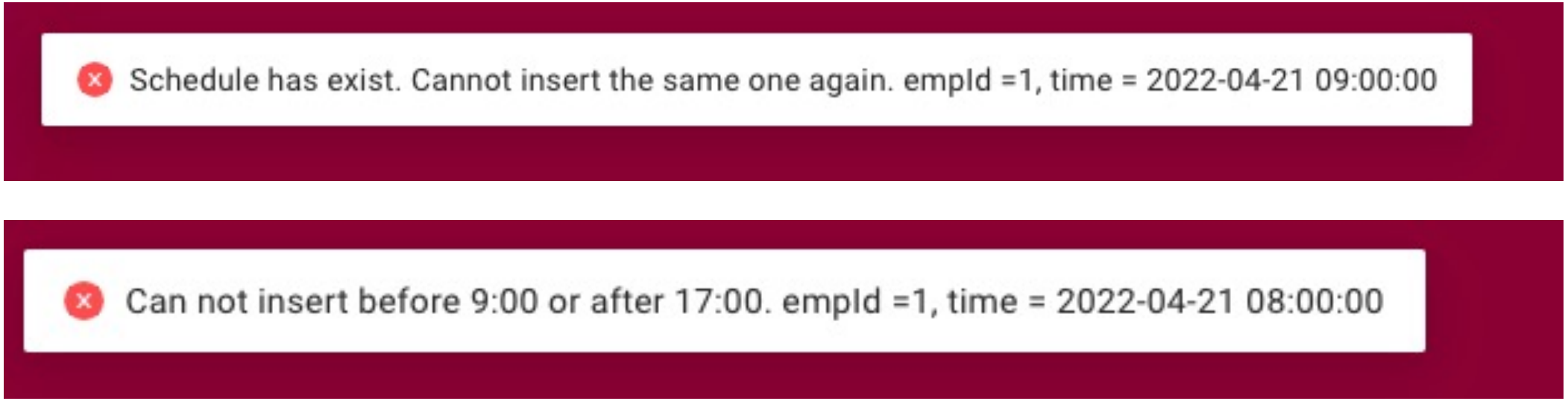
Material-UI, Antd

Spring Boot

Implement REST endpoints

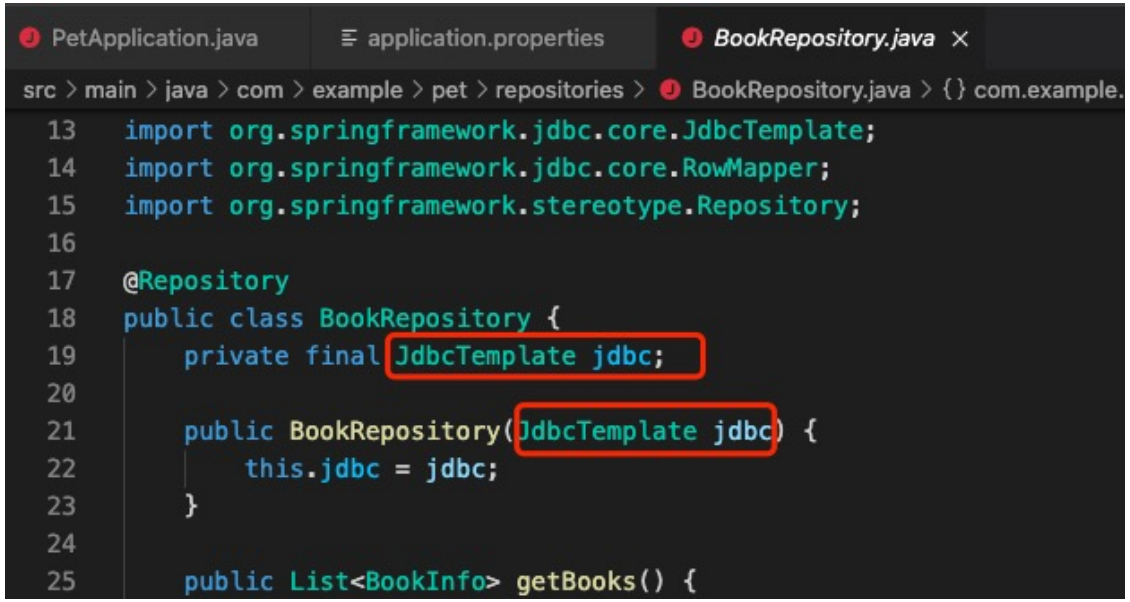
Manage Exceptions at the endpoint

Add REST Controller Advice



Spring JDBC

JdbcTemplate is the simplest of Spring's tools for working with a relational database. It doesn't need you to utilize any other persistence framework.



application.properties in resources folder

```
spring.datasource.url=jdbc:mysql://43.156.230.87:3306/pet
spring.datasource.username=pet
spring.datasource.password=136896
```

Test Endpoints

GET localhost:8080/schedules/employee

Params Authorization Headers (6) Body Pre-request Script Tests S

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON


```
[
    {
        "sId": 2,
        "empId": 1,
        "empName": "Peter",
        "workTime": "2022-03-26T17:00:00.000+00:00",
        "avaliable": true
    },
    {
        "sId": 1,
        "empId": 2,
        "empName": "Alice",
        "workTime": "2022-03-26T14:00:00.000+00:00",
        "avaliable": true
    },
    {
```


PUT localhost:8080/pets

Params Auth Headers (9) Body Pre-req. Tests Settings

raw JSON


```
{
    "petId": 8,
    "petName": "Pluto",
    "gender": true,
    "birthday": "2019-01-01",
    "cusId": 2
}
```


Body 202 Ac

Pretty Raw Preview Visualize JSON

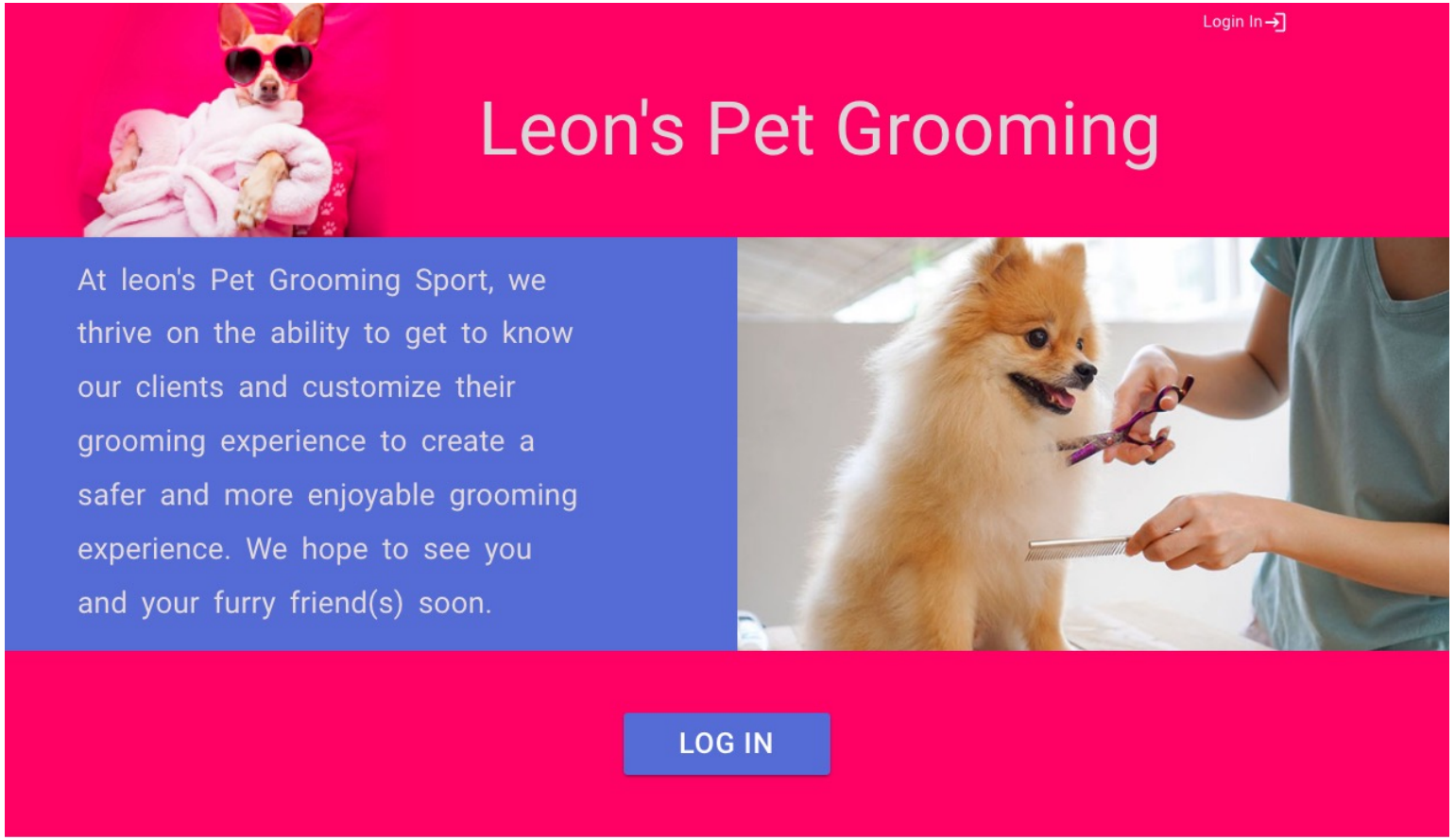

```
{
    "message": "The pet was updated successfully.",
    "success": true
}
```

Live Demo

UserName: admin
Password:123456

UserName: Nancy
Password:123456

http://localhost:3000/



Thank you for your time!