

SW Dev Practice Project Listings

All teams must conform to the non-functional requirements and
Constraints in Page 2 &3.

Non-Functional Requirements

- Security:
 - The system shall authenticate users using username-password.
 - The system shall be able to keep user's transactions confidential.
- Performance:
 - The system shall response to a request in 3 seconds.
- Usability:
 - The system shall be used and test via Postman.

Constraints

The system shall be a web API.

The frontend part of the application is not required.

The development team shall develop the backend system as REST APIs.

The database system can be either MongoDB Atlas or MySQL.

Project Functional Requirements

Project#1: Hotel Booking

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book up to 3 nights by specifying the date and the preferred hotel. The hotel list is also provided to the user. A hotel information includes the hotel name, address, and telephone number.
4. The system shall allow the registered user to view his hotel bookings.
5. The system shall allow the registered user to edit his hotel bookings.
6. The system shall allow the registered user to delete his hotel bookings.
7. The system shall allow the admin to view any hotel bookings.
8. The system shall allow the admin to edit any hotel bookings.
9. The system shall allow the admin to delete any hotel bookings.

Project#2: Campground Booking

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book up to 3 nights by specifying the date and the preferred campground. The campground list is also provided to the user. A campground information includes the campground name, address, and telephone number.
4. The system shall allow the registered user to view his campground bookings.
5. The system shall allow the registered user to edit his campground bookings.
6. The system shall allow the registered user to delete his campground bookings.
7. The system shall allow the admin to view any campground bookings.
8. The system shall allow the admin to edit any campground bookings.
9. The system shall allow the admin to delete any campground bookings.

Project#3: Online Job Fair Registration

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book up to 3 interview sessions by specifying the date (during May 10th -13th, 2022) and the preferred companies. The company list is also provided to the user. A company information includes the company name, address, website, description, and telephone number.
4. The system shall allow the registered user to view his interview session bookings.
5. The system shall allow the registered user to edit his interview session bookings.
6. The system shall allow the registered user to delete his interview session bookings.
7. The system shall allow the admin to view any interview session bookings.
8. The system shall allow the admin to edit any interview session bookings.
9. The system shall allow the admin to delete any interview session bookings.

Project#4: Dentist Booking

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book only ONE session by specifying the date and the preferred dentist. The dentist list is also provided to the user. A dentist information includes the dentist's name, years of experience, and area of expertise.
4. The system shall allow the registered user to view his booking.
5. The system shall allow the registered user to edit his booking.
6. The system shall allow the registered user to delete his booking.
7. The system shall allow the admin to view any bookings.
8. The system shall allow the admin to edit any bookings.
9. The system shall allow the admin to delete any bookings.

Project#5: Restaurant Reservation

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to reserve up to 3 tables by specifying the date and the preferred restaurant. The restaurant list is also provided to the user. A restaurant information includes the name, address, telephone number, and open-close time.
4. The system shall allow the registered user to view his/her restaurant reservation.
5. The system shall allow the registered user to edit his/her restaurant reservation.
6. The system shall allow the registered user to delete his/her restaurant reservation.
7. The system shall allow the admin to view any restaurant reservation.
8. The system shall allow the admin to edit any restaurant reservation.
9. The system shall allow the admin to delete any restaurant reservation.

Project#6: Co-working Space Reservation

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to reserve up to 3 rooms by specifying the date and the preferred co-working space. The co-working space list is also provided to the user. A co-working space information includes the name, address, and telephone number, and open-close time.
4. The system shall allow the registered user to view his/her co-working space reservation.
5. The system shall allow the registered user to edit his/her co-working space reservation.
6. The system shall allow the registered user to delete his/her co-working space reservation.
7. The system shall allow the admin to view any co-working space reservation.
8. The system shall allow the admin to edit any co-working space reservation.
9. The system shall allow the admin to delete any co-working space reservation.

Project#7: Rental Car Booking

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book up to 3 cars by specifying the date and the preferred rental car provider. The rental car provider list is also provided to the user. A rental car provider information includes the name, address, and telephone number.
4. The system shall allow the registered user to view his/her rental car bookings.
5. The system shall allow the registered user to edit his/her rental car bookings.
6. The system shall allow the registered user to delete his/her rental car bookings.
7. The system shall allow the admin to view any rental car bookings.
8. The system shall allow the admin to edit any rental car bookings.
9. The system shall allow the admin to delete any rental car bookings.

Project#8: Massage Reservation

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to reserve up to 3 queues by specifying the date and the preferred massage shop. The massage shop list is also provided to the user. A massage shop information includes the name, address, telephone number, and open-close time.
4. The system shall allow the registered user to view his/her massage reservation.
5. The system shall allow the registered user to edit his/her massage reservation.
6. The system shall allow the registered user to delete his/her massage reservation.
7. The system shall allow the admin to view any massage reservation.
8. The system shall allow the admin to edit any massage reservation.
9. The system shall allow the admin to delete any massage reservation.