Create Resource Classes

In this section, we will need to create the *resource* classes so we can provide an intermediary between the UI components and services. Resource classes are used for defining the Application Programming Interface (API).

> **Note:** APIs are a best practice and used to separate backend software from frontend software. This provides a clean separation in behavior and responsibilities for the software components.

The hotel reservation application will have two resources, the `HotelResource` intended for public usage and the `AdminResource` intended for the hotel staff only.

Here are the main steps you'll need to complete to create the service classes:

Create a new package

Now it's time to create our `api` package so we can start to add our api classes.

- [ ] Create a new package under the source folder named `api`

Create the HotelResource class

Next you'll need to create the **HotelResource class**. The HotelResource should have little to no behavior contained inside the class and should make use of the Service classes to implement its methods. The HotelResource will have the following methods:

- [ ] Provide a `static` reference
- [ ] `public Customer getCustomer(String email)`
- [ ] `public void createACustomer(String email, String firstName, String lastName)`
- [ ] `public IRoom getRoom(String roomNumber)`
- [ ] `public Reservation bookARoom(String customerEmail, IRoom room, Date checkInDate, Date CheckOutDate)`
- [ ] `public Collection<Reservation> getCustomersReservations(String customerEmail)`
- [ ] `public Collection<IRoom> findARoom(Date checkIn, Date checkOut)`

Create the AdminResource class

Next you'll need to create the **AdminResource class**. The AdminResource should have little to no behavior contained inside the class and should make use of the Service classes to implement its methods. The AdminResource will have the following methods:

- [ ] Provide a `static` reference
- [ ] `public Customer getCustomer(String email)`
- [ ] `public void addRoom(List<IRoom> rooms)`
- [ ] `public Collection<IRoom> getAllRooms()`
- [ ] `public Collection<Customer> getAllCustomers()`
- [ ] `public void displayAllReservations()`