

In this part, we'll make special classes called services. These services will help us do things that don't fit into our main class. Services can either remember things (*stateful*) or not remember things (*stateless*). Our services will remember things for our project and use Collections to manage information. Since our services remember things, we'll make sure there's only one of each service, like having a special helper who always knows what's happening.

Here's what you need to do to make these service classes:



Create a new package

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

- ☐ Create a new package under the source folder named `service`



Create the CustomerService class

Next you'll need to create the **CustomerService** class. It should have the following:

- ☐ `public void addCustomer(String email, String firstName, String lastName)`
- ☐ `public Customer getCustomer(String customerEmail)`
- ☐ `public Collection<Customer> getAllCustomers()`
- ☐ Provide a `static` reference



Create the ReservationService class

Next you'll need to create the **ReservationService** class. It should have the following:

- ☐ `public void addRoom(IRoom room)`
 - ☐ `public IRoom getARoom(String roomId)`
 - ☐ `public Reservation reserveARoom(Customer customer, IRoom room, Date checkInDate, Date checkOutDate)`
 - ☐ `public Collection<IRoom> findRooms(Date checkInDate, Date checkOutDate)`
 - ☐ `public Collection<Reservation> getCustomersReservation(Customer customer)`
 - ☐ `public void printAllReservation()`
 - ☐ Create `Collections` to store and retrieve a Reservation
 - ☐ Provide a `static` reference
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