

Postal Service

For part A of Project 0, you have two tasks:

1. Construct a data model that supports a mailing company like the USPS while satisfying the requirements in the below **Data Model**; and
2. Configure proper security to satisfy the requirements listed in the below **Security** section.

Note, decisions made for either can and/or will affect potential decisions made in the other. For example, deciding to use a Master-Detail over a Lookup relationship will dictate what record-level security options are available for use on the child object. You should have a Lightning Application, called *Postal Service* that will contain your P0. For each object, you must also create a custom page layout, list view and if applicable, custom related list(s)/record type(s).

**Data Model**

Your data model should consist of 5 objects: **Mail**, **Address**, **Inhabitant**, **Contact**, and **Route**. See the below requirements that should influence your decision on how to construct the data model. You should make your decision on what is presented.

* A single piece of mail should be aware of where it is going, who it is addressed to, its height, its width, its weight, if it’s fragile and its delivery status.
* Address should consist of individual fields for each address-item (i.e., street/city/state/zip code) and a single field that represents a whole-formatted address, named *Mailing Address*.
* A Driver (User) is assigned a Route at all times.
* Ideally, we’d like to keep track of which Drivers have been assigned to a Route.
* A Route can consist of multiple stops.
* Multiple people can live at one address.
* One person can have several properties.

**Security**

There are two users to your application. The **Driver** and the **Mail Handler**. See the below requirements that should influence your decision on how to configure your security settings. You should make your decision on what is presented.

* Drivers should not be able to create or delete Mail.
* Drivers are in charge of updating the delivered status of a piece of Mail but should not be able to edit the other fields.
* Mail Handlers should only be able to specify which Route a piece of Mail is assigned to.
* Neither User should be able to enter/change the Contact/Address/Inhabitant fields. We will assume that there is a third user (System Admin) that is in charge of inputting data in Salesforce.
* If a User cannot see a Contact, they should not be able to see the places in which they live.
* If a User cannot see an Address, they should not be able to see the people that live there.
* Users should only see the *Postal Service* Lightning Application.
* Users should only see relevant Tabs when viewing the *Postal Service* Lightning Application.
* Users should only be able to Login from 8AM-8PM.

Postal Service Solution – **Trainer/Internal Eyes Only**

**Data Model Example**

A screenshot of a cell phone

Description automatically generated

The thing Associates should immediately identify is that *Inhabitant* is a Junction Object. This realization alone will provide guidance for most of the requirements. This is not the only Data Model that is possible but can/should be used as guidance when Associates have questions.

**Security**

1. Two profiles: Driver and Mail Handler
   1. **Driver**:
      1. Read/Edit for Mail object.
      2. Read-only for all Mail fields except *Delivery Status.*
      3. Read-only for Contact/Address/Inhabitant fields.
      4. Assigned only *Postal Service* Lightning Application.
   2. **Mail Handler**
      1. Read-only for all Route fields except the Driver.
      2. Assigned only *Postal Service* Lightning Application.