Angular Exercise
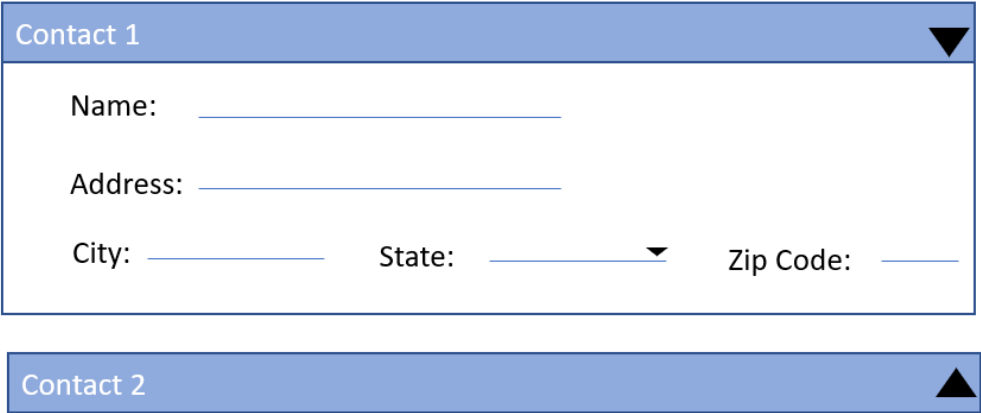
Implement proper routing, then create a view that replicates the design of the image based on the following requirements:

1. In the existing app-routing.module, define the following routes:
   a. A route called "contacts" that will route to the existing **contacts component** you will enhance in the following steps. The corresponding button in the toolbar (see app.component.html) should route the user here when it is clicked.
   b. A route called "profile" that will lazy-load the existing **profile module** and route to the **profile component** (no changes are needed to this module or component). The corresponding button in the toolbar (see app.component.html) should route the user here when it is clicked.
   c. Bonus – A catch-all route that will route to the existing **page-not-found component** for when an invalid route is entered
2. Leveraging the existing **contacts component** and the Angular Material Library, specifically the "*mat-accordion*", "*mat-expansion-panel*", "*mat-form-field*", "*mat-raised-button*", "*mat-select*", "*mat-input*" components/directives, create the inputs for a single contact in the correct positions.
3. Implement the **contact.service.ts** API stub methods as needed to complete each task. Some details are provided in the service file.
4. Using string interpolation, display the labels for each input field from the *messageBundle* available via the contact service.
5. Add support for multiple contacts. This can be a static number of contacts.
   a. Bonus – Add buttons to dynamically add/remove contacts.
6. Wrap the view in a form element and create a binding to a model object within the component.
   a. Bonus – Submit the form to the contact service and log the result.
   b. Bonus – Cancel button will clear all data and return to a single blank contact.

You may reference:

- https://material.angular.io/
- https://google.com/