Angular 15 – S1 - Practice Exercise

Practice Exercise

This document provides a list of exercises to be practiced by learners. Please raise feedback in Talent Next, should you have any queries.

Skill	Angular 15
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1.0	13-Apr-2023	Scenario based Problem Statements	Shabarinath KP

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Introduction

Contura is startup company who specialize in shipping of goods. You need to build a Single Page Application (SPA) using Angular to meet their requirements.

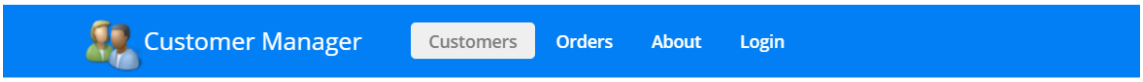
Note: Every Problem Statement starts in a new page

Problem Statement 1: Creating Components

Create an Angular application using CLI with following components

- Welcome Component – is the default component that is rendered when the application is run
- Customer Component –Display the list of customers
- Orders Component – Display the list of customers
- About component – Render details of the Contura
- Login Component – Display the login page that accepts credentials

The Above components must be loaded as per the below image in the welcome page



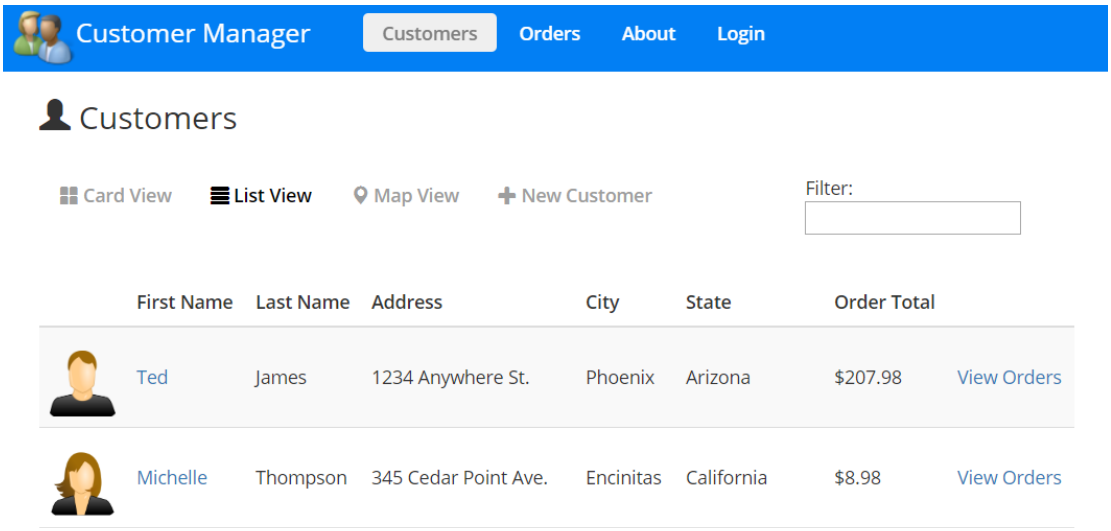
Problem Statement 2: Component to Component Communication

Create a list of customers and orders in a json object.

- Create Customers Component and Orders Component
- Pass data between Customers Component and Orders Component
- The customers and orders details should be hierarchical and have relationship.
- Enable pagination based on the count of users. Max # of customers to be displayed is 5 per page. Pagination can be implemented using Directives.

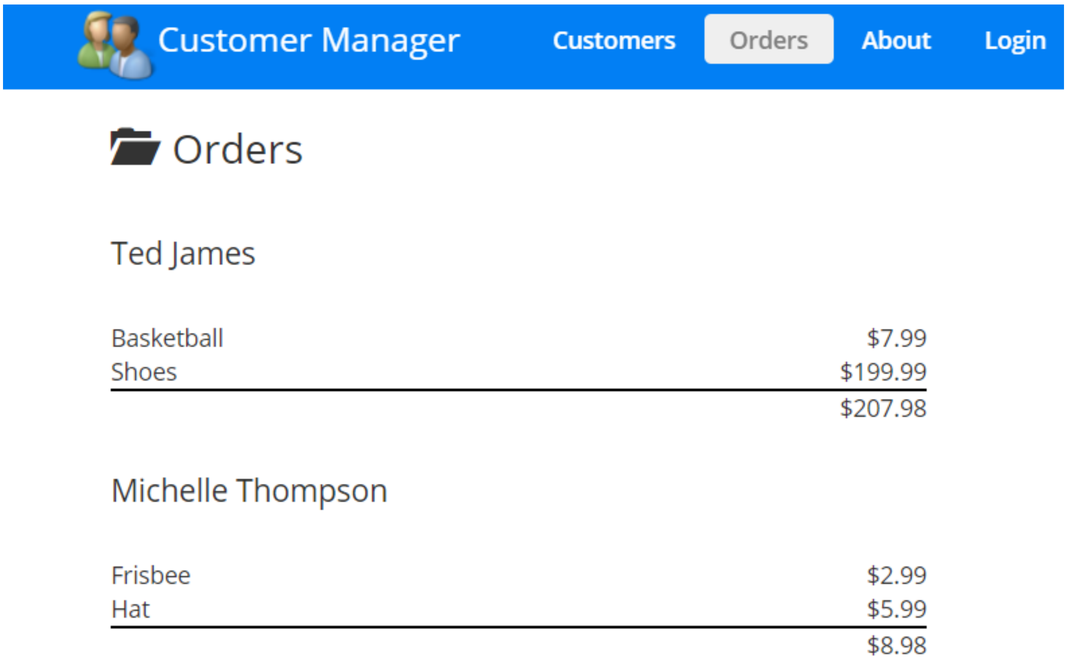
The Above components must be loaded as per the below image

Customers Component View



	First Name	Last Name	Address	City	State	Order Total	
	Ted	James	1234 Anywhere St.	Phoenix	Arizona	$207.98	View Orders
	Michelle	Thompson	345 Cedar Point Ave.	Encinitas	California	$8.98	View Orders

Orders Component View is shown as below image



Orders

Ted James

Basketball	$7.99
Shoes	$199.99
	$207.98

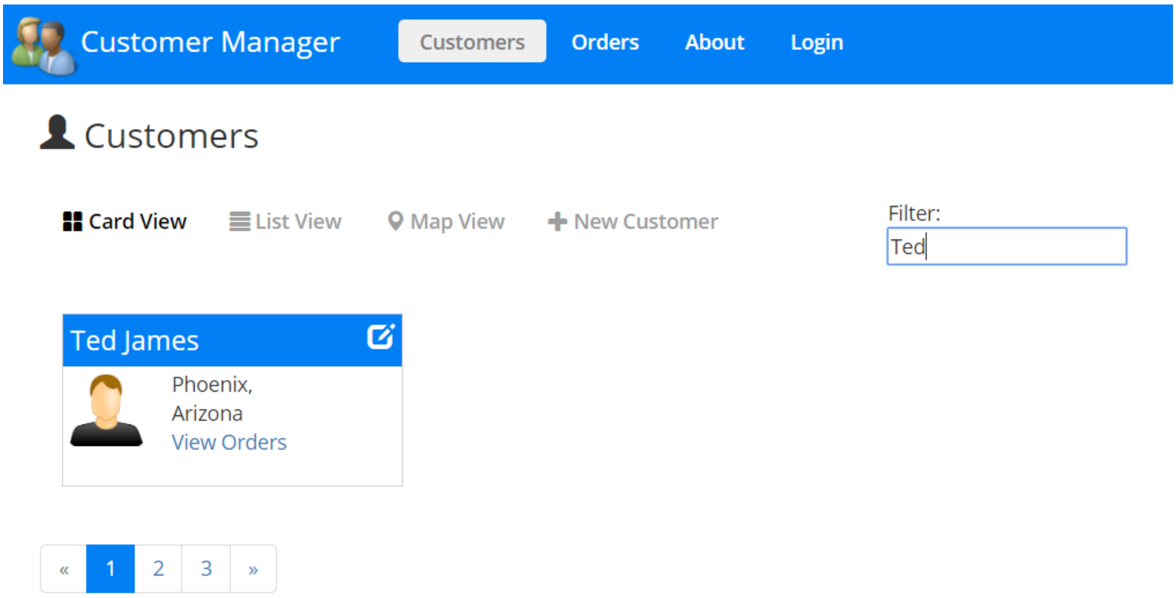
Michelle Thompson

Frisbee	$2.99
Hat	$5.99
	$8.98

Problem Statement 3: Creating Custom Pipes

Create a filter pipe that filters the customers as per the text entered in the Filter Textbox.

Custom Filter pipe View :



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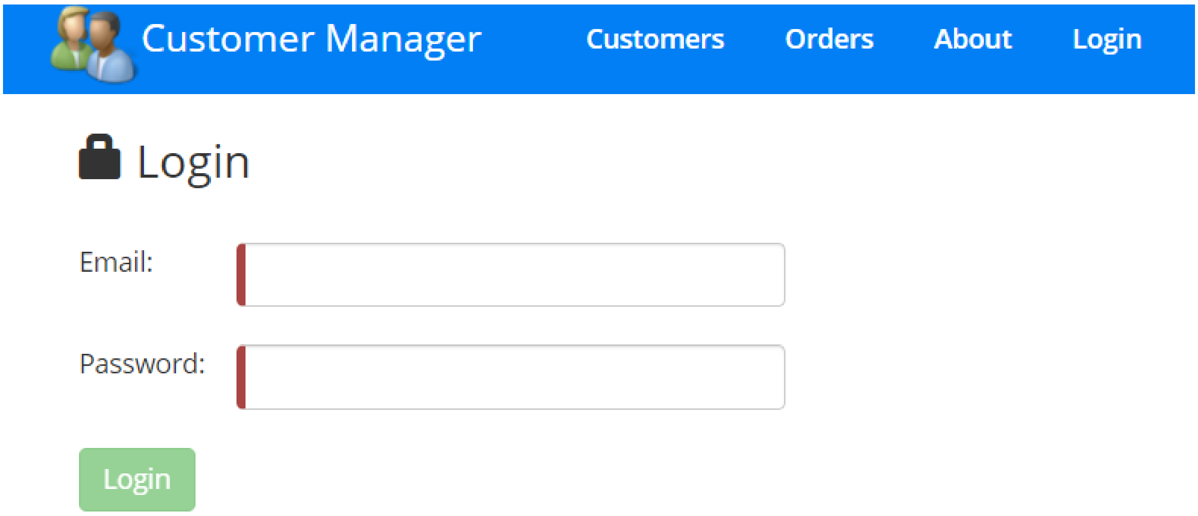
Problem Statement 4: Designing the Login Form

Create a login screen to accept the customer name and password.

- Implement Client-Side validations as below
    1. Textboxes cannot be empty
    2. Password min length – 6 Characters
    3. Password min length – 10 Characters
    4. Password should be a combination of letters ,number and 1 special character
    5. Submit button should be disabled till the validation is passed

Sample Login View looks like

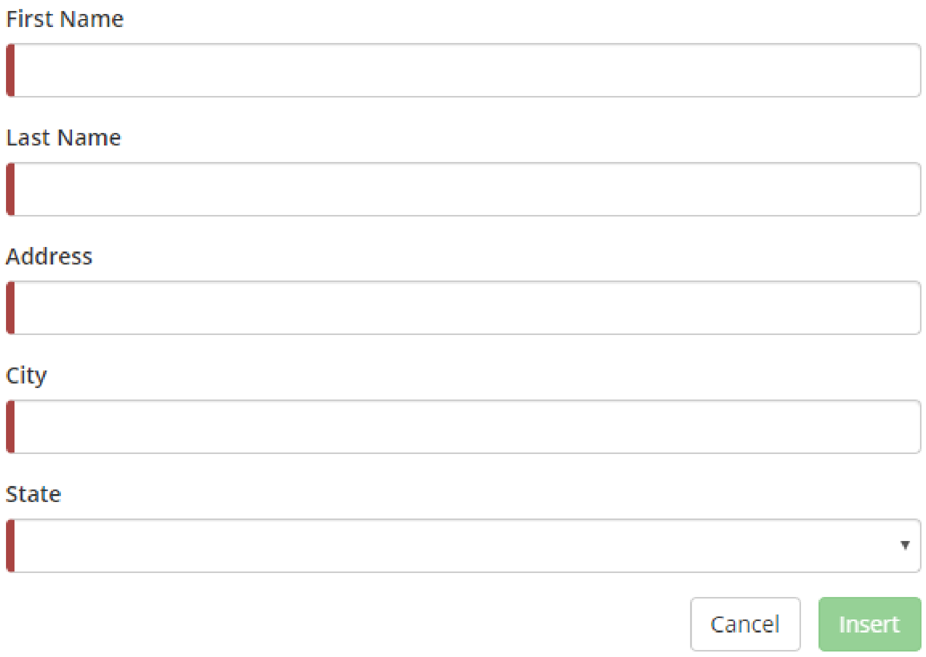


Problem Statement 5: Add / Edit / Delete Customer

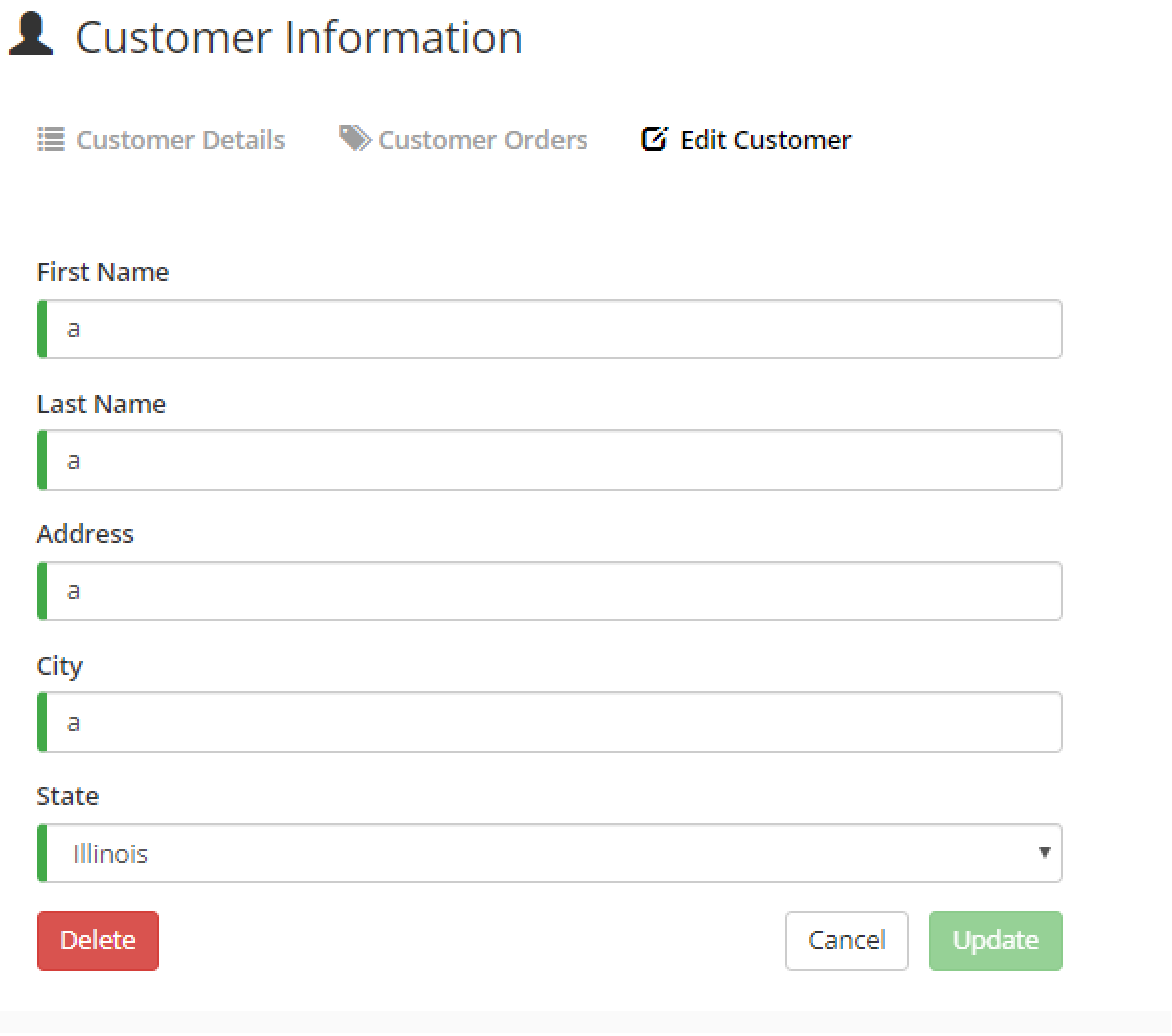
Create a UI to add / edit / delete the customer.

- When an anonymous user tries to add / delete / edit customer – he should be redirected to login view
- After successful creation of the new customer / updating of the existing customer, update the JSON object created in the above assignment.

Add Customer View looks like below image



Edit Customer View looks like below image



Customer Information

First Name: a

Last Name: a

Address: a

City: a

State: Illinois