



Front-end Framework

Practice Exam

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Hanoi

RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	30/May/2019	Create a new assignment	Create new	DieuNT1	VinhNV
2	07/Jun/2019	Update Fsoft Template	Update	DieuNT1	VinhNV

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CODE:	FEFW.Practice.T01
TYPE:	Exam 01
LOC:	N/A
DURATION:	180 minutes

Customer Manager

Project Overview:

You have to implement a Customer Management Web app using Angular or React.

General functionalities:

- CRUD Customer
- View All/Detail Customer
- Filter Customer

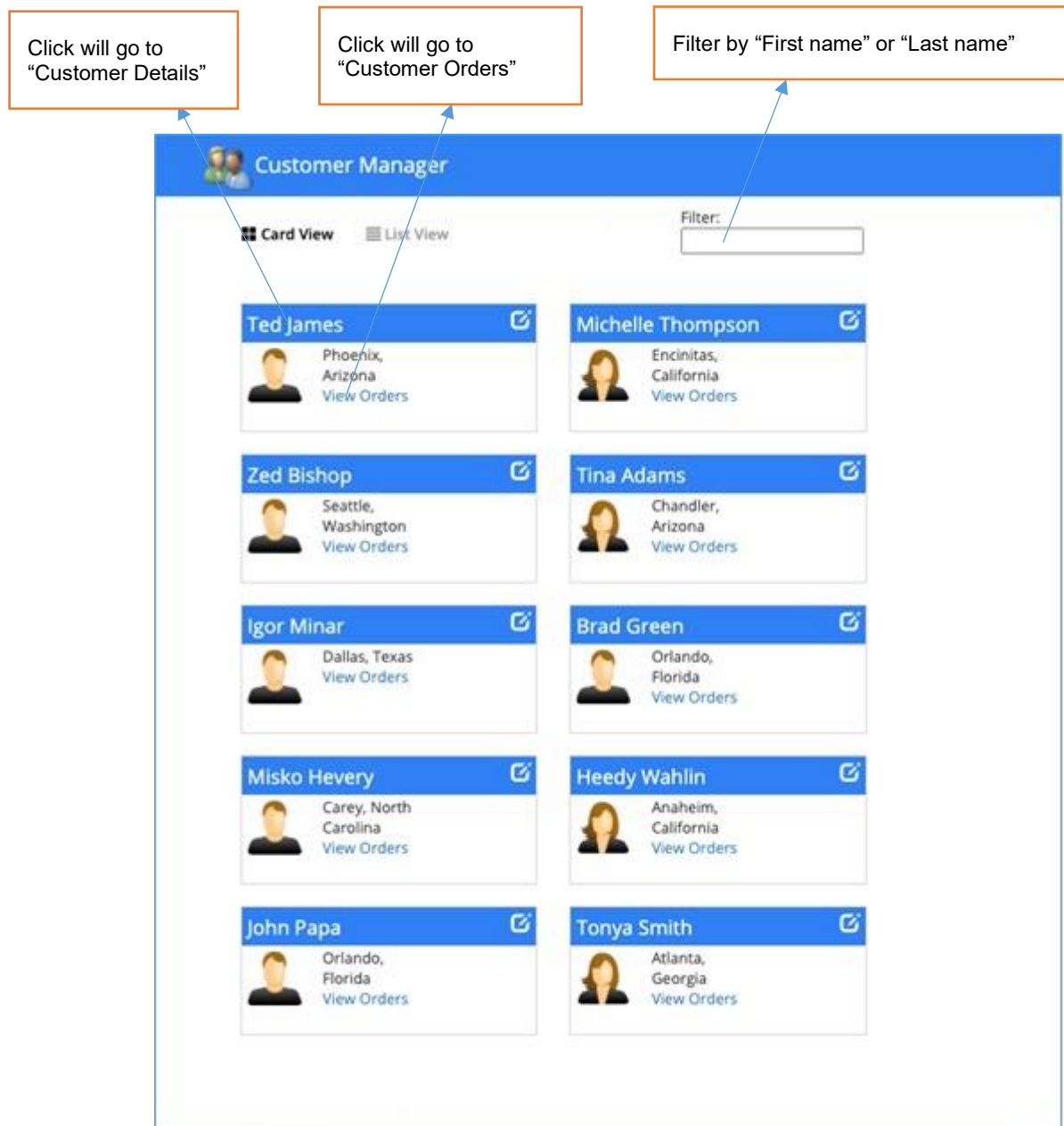
Frontend Specs

Routing Guidelines

- Home page (URL: /)
 - Redirect to /customers
- Customers page (URL: /customers)
 - Display List View (with Filter)
- Customer Detail page (URL: /customers/:id/details)
 - Display Customer in detail
 - Back to View all Customers
- Customer Orders page (URL: /customers/:id/orders)
 - Display Orders for current Customer
 - Back to View all Customers

Styles

- Use Bootstrap or any CSS Library/Framework for styling.
- Layout must match UI design.
- Color, icons, fonts,... doesn't need to match but make sure your app is clean and easy to follow.
- Responsive is nice to have.











Screen Design:

Customer Manager

Card View

List View

Filter:

	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
	Zed	Bishop	1822 Long Bay Dr.	Seattle	Washington	\$229.97	View Orders
	Tina	Adams	79455 Pinetop Way	Chandler	Arizona	\$25.48	View Orders
	Igor	Minar	576 Crescent Blvd.	Dallas	Texas	\$469.98	View Orders
	Brad	Green	9874 Center St.	Orlando	Florida	\$29.98	View Orders
	Misko	Hevery	9812 Bultway Apt. #1	Carey	North Carolina	\$321.97	View Orders
	Heedy	Wahn	4651 Tuvo St.	Anaheim	California	\$679.98	View Orders
	John	Papa	66 Ray St.	Orlando	Florida	\$29.98	View Orders
	Tonya	Smith	1435 Chandler Blvd.	Atlanta	Georgia	\$313.97	View Orders


Customer Detail:

Customer Manager

Customer Information

Customer Details

Customer Orders



Ted James
1234 Anywhere St.
Phoenix , Arizona

[View all Customers](#)

Customer Orders:



Backend Specs

You are given a project inside **customer-management-api.zip**.

Unzip, then start the project (run `npm start` on cmd). You should see the output: `Express listening on port 8888`.

BASE URL: <http://localhost:8888>

Endpoints:

Get All Customers

1. GET /api/customers

Returns array of Customer

Sample Reponse Data:

```
[
  {
    "id": 1,
    "firstName": "ted",
    "lastName": "james",
    "gender": "male",
    "address": "1234 Anywhere St.",
    "city": "Phoenix",
    "state": {
      "abbreviation": "AZ",
      "name": "Arizona"
    },
    "orders": [
      {
        "productName": "Basketball",
        "itemCost": 7.99
      },
      {
        "productName": "Shoes",
        "itemCost": 199.99
      }
    ],
    "latitude": 33.299,
    "longitude": -111.963
  },
  {
    "id": 2,
    "firstName": "Michelle",
    "lastName": "Thompson",
    "gender": "female",
    "address": "345 Cedar Point Ave.",
    "city": "Encinitas",
    "state": {
      "abbreviation": "CA",
      "name": "California"
    },
    "orders": [
      {
        "productName": "Frisbee",
        "itemCost": 2.99
      },
      {
        "productName": "Hat",
        "itemCost": 5.99
      }
    ],
    "latitude": 33.037,
    "longitude": -117.291
  },
  .....
]
```

Get a Customer by Id

2. GET /api/customers/:id

Returns a customer by Id

Sample Reponse Data:

```
{ "id":1, "firstName":"ted", "lastName":"james", "gender":"male", "address":"1234 Anywhere St.", "city":" Phoenix", "state":{"abbreviation":"AZ", "name":"Arizona"}, "orders":[{"productName":"Basketball", "itemCost":7.99}, {"productName":"Shoes", "itemCost":199.99}], "latitude":33.299, "longitude":-111.963 }
```

Other status codes:

404 for Not found requests, when a resource can't be found to fulfill the request.