Front-end Framework

Practice Exam

Document Code	25e-BM/HR/HDCV/FSOFT
Version	1.1
Effective Date	7/1/2019

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

Contents

FRESHER ACADEMY	**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
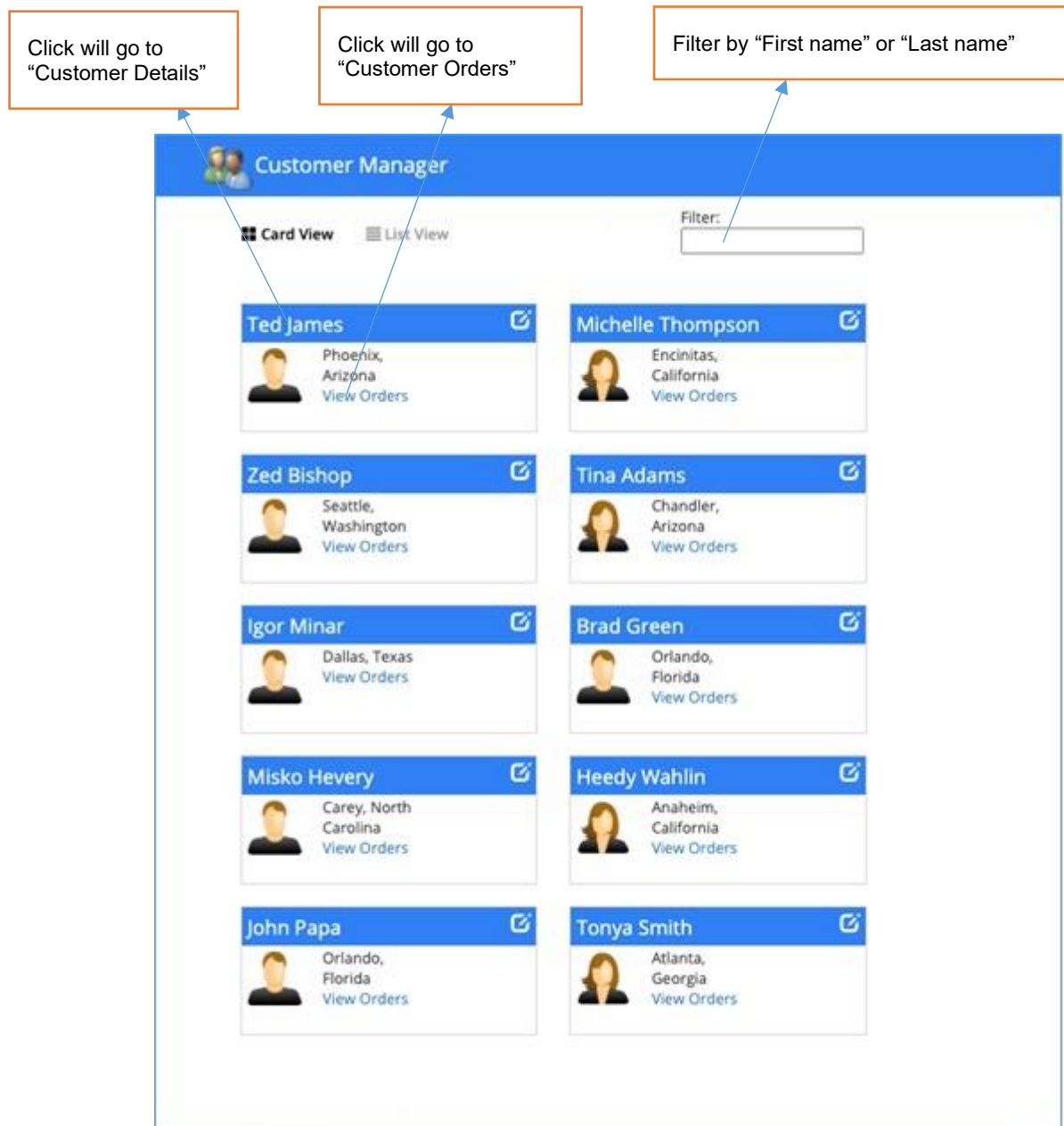- View All/Detail Customer
- Filter Customer

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:

Click will go to "Customer Details"

Click will go to "Customer Orders"

Filter by "First name" or "Last name"

Customer Detail:

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.