Jinyang Li   **Project**

Memo For Project

Link to my repo

https://github.com/a4501150/CS445

Project Status

This project does not complete at 100%. Here is a API list showing which parts of project are complete (colored by blue) and incomplete (colored by red).

- Farmers
    - Create account (POST /farmers)
    - Update account (PUT /farmers/{fid})
    - [*] Cancel account
    - View account (GET /farmers/{fid})
    - View farmers (GET /farmers[?zip=ddddd])
    - View farm store (GET /farmers/{fid}/products)
    - Add product to store (POST /farmers/{fid}/products)
    - Modify store product (POST /farmers/{fid}/products/{fspid})
    - View store product detail (GET /farmers/{fid}/products/{fspid})
    - Get reports - covers the "view orders by date" use case as well
        - GET /farmers/{fid}/reports
        - GET /farmers/{fid}/reports/{frid}[?start_date=YYYYMMDD&end_date=YYYYMMDD]
    - View delivery charge (GET /farmers/{fid}/delivery_charge)
    - Update delivery charge (POST /farmers/{fid}/delivery_charge)
- Customers
    - Create account (POST /customers)
    - Update account (PUT /customers/{cid})
    - [*] Cancel account
    - View account (GET /customers/{cid})
    - Create order (POST /customers/{cid}/orders)
    - View orders (GET /customers/{cid}/orders)
    - View order by ID (GET /customers/{cid}/orders/{oid})
    - Cancel order (POST /customers/{cid}/orders/{oid})
    - [*] Update order
- Managers
    - View catalog (GET /managers/catalog)
    - [*] View catalog product (GET /managers/catalog/{gcpid})
    - Add product to catalog (POST /managers/catalog)
    - Update catalog product (POST /managers/catalog/{gcpid})
    - View all managers accounts (GET /managers/accounts)
    - View account (GET /managers/accounts/{mid})
    - [*] Create account (POST /managers/accounts)
    - Get reports

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- ▪ GET /managers/reports
- ▪ GET /managers/reports/{mrid}[?start_date=YYYYMMDD&end_date=YYYYMMDD]
- Search
- Delivery

Farmers.Get Reports:

```
}, {
        "frid": "704",
        "name": "Orders delivery report"
    }]
```

This part was incomplete, cannot return report for orders delivery report. Other parts are nearly completes and functional.

Managers: Get Reports

```
}, {
        "mrid": "3",
        "name": "Revenue for previous month"
    }, {
        "mrid": "4",
        "name": "Revenue yesterday"
    }, {
        "mrid": "5",
        "name": "Revenue yesterday by zip code"
    }]
```

These 3 reports cannot process due to I can't find formula to calculate revenue. Other parts inside this API are complete.

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Lines of code

Figure 1 – Lines of code for project classes

File	Type	Code lines
Utils.java	.java	94
AppConfiguration.java	.java	9
AppInitializer.java	.java	16
CatalogController.java	.java	46
CustomerController.java	.java	44
FarmerController.java	.java	87
ManagerController.java	.java	32
OrderController.java	.java	81
ProductController.java	.java	76
ReportController.java	.java	42
SearchController.java	.java	19
Catalog.java	.java	35
Customer.java	.java	72
Farmer.java	.java	62
Manager.java	.java	71
Order.java	.java	140
Product.java	.java	120
Report.java	.java	111
Farm.java	.java	59
FarmInfo.java	.java	64
Personal.java	.java	42
Detail.java	.java	48
FarmerReportInfo.java	.java	75
CatalogService.java	.java	38
CustomerService.java	.java	40
FarmerService.java	.java	51
ManagerService.java	.java	36
OrderService.java	.java	80
ProductService.java	.java	71
ReportService.java	.java	176
SearchService.java	.java	47

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Figure 2 – Lines of code for test classes

UtilsTest.java	.java	56
AppConfigurationTest.java	.java	13
AppInitializerTest.java	.java	23
CatalogControllerTest.java	.java	66
CustomerControllerTest.java	.java	131
FarmerControllerTest.java	.java	185
ManagerControllerTest.java	.java	60
CatalogTest.java	.java	47
CustomerTest.java	.java	21
FarmerTest.java	.java	28
ManagerTest.java	.java	65
OrderTest.java	.java	115
ProductTest.java	.java	55
ReportTest.java	.java	126
FarmInfoTest.java	.java	79
FarmTest.java	.java	56
DetailTest.java	.java	70
FarmerReportInfoTest.java	.java	112
CatalogServiceTest.java	.java	46
CustomerServiceTest.java	.java	54
FarmerServiceTest.java	.java	65
ManagerServiceTest.java	.java	35
OrderServiceTest.java	.java	111
ProductServiceTest.java	.java	72
ReportServiceTest.java	.java	101
SearchServiceTest.java	.java	56

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Coverage and Complexity measured by EclEmma

Coverage Report - All Packages

Package	# Classes	Line Coverage		
All Packages	31	83%	811/975	
org.pop.lf2u.common	1	76%	49/64	
org.pop.lf2u.configuration	2	100%	5/5	
org.pop.lf2u.controller	8	32%	58/176	
org.pop.lf2u.model	7	100%	270/270	
org.pop.lf2u.model.farmer	3	88%	67/76	
org.pop.lf2u.model.order	1	100%	18/18	
org.pop.lf2u.model.report	1	90%	29/32	
org.pop.lf2u.service	8	94%	315/334	

Package	Complexity
All Packages	1.733
org.pop.lf2u.common	4.25
org.pop.lf2u.configuration	1
org.pop.lf2u.controller	3.893
org.pop.lf2u.model	1
org.pop.lf2u.model.farmer	1.028
org.pop.lf2u.model.order	1
org.pop.lf2u.model.report	1
org.pop.lf2u.service	3.452

The number of hours I needed to get the code working

Around 100 hours.

The number of hours I needed to prepare submission

Around 5 hours.

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A list of challenges you faced while working on this assignment and the solutions you found to those challenges

Challenges	Solutions
Maven usage	Google and read tutorial
Test cases for spring mvc framework	Google and read tutorial of spring mvc framework
Entity model	Follow lectures and understand OOP theory