Repository link:

https://github.com/adeebahmed/Delectable

Lines of code:

Package - edu.iit.cs445.s2016.aahmed22.delectable

       AdminResource.java – 20 lines

       CustomerResourse.java – 40 lines

       MenuResourse.java – 20 lines

       OrderResourse.java – 50 lines

       ReportResourse.java – 20 lines

Package - edu.iit.cs445.s2016.aahmed22.delectable.model

       Customer.java – 60 lines

       Menu.java – 30 lines

       Food.java – 50 lines

       Order.java – 75 lines

       Report.java – 35 lines

Package - edu.iit.cs445.s2016.aahmed22.delectable.repository

       CustomerRepository.java – 5 lines (interface)

       MenuRespository.java – 5 lines (interface)

       OrderRespository.java – 5 lines (interface)

       ReportRespository.java – 5 lines (interface)

       CustomersStubRepository.java – 20 lines

       MenuStubRespository.java – 35 lines

       OrderStubRespository.java – 50 lines

       ReportStubRespository.java – 50 lines

Unit Tests (lines of code):

       CustomerTest.java – 150 lines

       MenuTest.java – 50 lines

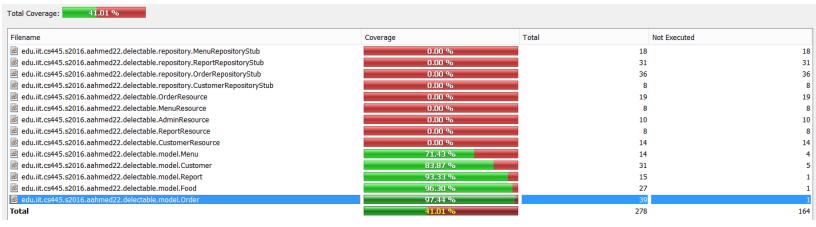   FoodTest.java – 100 lines

       OrderTest.java – 175 lines

       ReportTest.java – 80 lines

Unit Test Coverage:

Unit test coverage using Jacoco maven plugin.

Filename	Coverage	Total	Not Executed
Total Coverage:	41.01 %		
edu.iit.cs445.s2016.aahmed22.delectable.repository.MenuRepositoryStub	0.00 %	18	18
edu.iit.cs445.s2016.aahmed22.delectable.repository.ReportRepositoryStub	0.00 %	31	31
edu.iit.cs445.s2016.aahmed22.delectable.repository.OrderRepositoryStub	0.00 %	36	36
edu.iit.cs445.s2016.aahmed22.delectable.repository.CustomerRepositoryStub	0.00 %	8	8
edu.iit.cs445.s2016.aahmed22.delectable.OrderResource	0.00 %	19	19
edu.iit.cs445.s2016.aahmed22.delectable.MenuResource	0.00 %	8	8
edu.iit.cs445.s2016.aahmed22.delectable.AdminResource	0.00 %	10	10
edu.iit.cs445.s2016.aahmed22.delectable.ReportResource	0.00 %	8	8
edu.iit.cs445.s2016.aahmed22.delectable.CustomerResource	0.00 %	14	14
edu.iit.cs445.s2016.aahmed22.delectable.model.Menu	71.43 %	14	4
edu.iit.cs445.s2016.aahmed22.delectable.model.Customer	83.87 %	31	5
edu.iit.cs445.s2016.aahmed22.delectable.model.Report	93.33 %	15	1
edu.iit.cs445.s2016.aahmed22.delectable.model.Food	96.30 %	27	1
edu.iit.cs445.s2016.aahmed22.delectable.model.Order	97.44 %	39	1
Total	**41.01 %**	**278**	**164**

I was more concerned trying to do as much of the project as I that I only had time to write unit tests for entity classes. I also didn't write tests for the toString() method.

Cyclomatic complexity: Below 10

Hours worked:

Approximately 25 hours of work was put in to this project so far. If I had 25 more hours I know I could finish it. Setting it all up was the hard part.

Hours spent preparing submission: 3 hours

Challenges faced:

The main challenge faced is having to adjust the project for the use cases. Sometimes to implement a feature I found myself having to add things to an entity class, or rewrite parts of a function. This is because I thought about the use cases but didn't start with them. I was correcting myself by starting with the use cases but was too late into the project to be very effective.

Overall my biggest challenge was time management. It's the primary reason I failed to complete this project on time. I also took the MVC approach using interfaces respecting the inversion of control concept from HW-2. I realized there might have been a shorter way of implementing this project, but it was too late for me to change the structure of the project.

Recommendations:

In comparison with projects from my previous courses this project was much more difficult than I had anticipated. I could recommend to help students start earlier by doing some test driven development in class when there is extra time. Giving more guidance on the project would help a lot of student finish on time and stop them from wasting time.