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EECS3311 - Final Project

Video Link: https://youtu.be/HsA7-JrNYWM

My video is over 20 minutes and I covered all the requirements there. I understand the video went a little overtime so I will not write much in the report to make up for this (also, I understand everyone is busy so hopefully this won't take too long to mark).

Jacoco Test Report

lib

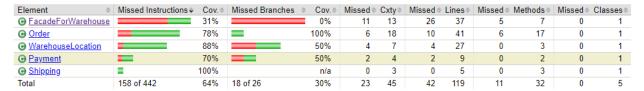| Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
application		0%		0%	255	255	952	952	152	152	39	39
credential		79%		60%	51	108	55	228	20	55	0	6
fulfillment		64%		30%	23	45	42	119	11	32	0	5
logistics		58%		13%	22	44	23	68	5	26	0	4
search		68%		56%	9	24	13	48	2	9	0	2
internal		0%		0%	8	8	13	13	6	6	3	3
payment		50%		n/a	2	4	2	4	2	4	1	2
util		0%		n/a	1	1	1	1	1	1	1	1
Total	4,627 of 5,974	22%	314 of 408	23%	371	489	1,101	1,433	199	285	44	62

application → GUI (no test needed)

credential → 79% coverage (most test cases done as it is the bulk of the code; takes care of admins, users, and the whole system)

credential

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
VideoCoSystem		70%		57%	11	26	19	60	4	12	0	1
User		63%		41%	18	28	19	47	7	16	0	1
Admin		62%		41%	16	21	13	30	5	9	0	1
Login		92%		90%	5	17	3	29	3	7	0	1
ReadFromCSV		98%		100%	1	12	1	53	1	7	0	1
Location		100%		n/a	0	4	0	9	0	4	0	1
Total	192 of 952	79%	42 of 106	60%	51	108	55	228	20	55	0	6

fulfillment → 64% coverage (facadeForWarehouse is just the front for warehouse, most codes occur inside the other classes in the facade pattern; see video for more details)

fulfillment

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
FacadeForWarehouse		31%		0%	11	13	26	37	5	7	0	1
Order		78%		100%	6	18	10	41	6	17	0	1
WarehouseLocation		88%		50%	4	7	4	27	0	3	0	1
Payment		70%		50%	2	4	2	9	0	2	0	1
Shipping		100%		n/a	0	3	0	5	0	3	0	1
Total	158 of 442	64%	18 of 26	30%	23	45	42	119	11	32	0	5

logistics → 58% coverage (basic components for system)

logistics

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
Movie		55%		0%	12	24	13	38	4	16	0	1
Category		32%		0%	6	9	8	14	1	4	0	1
Name		82%		50%	4	9	2	14	0	4	0	1
MovieComparator		100%		n/a	0	2	0	2	0	2	0	1
Total	94 of 224	58%	31 of 36	13%	22	44	23	68	5	26	0	4

search → 68% coverage (search function of the system in a visitor pattern)

search

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
Inventory		64%		50%	5	13	8	27	2	7	0	1
SearchVisitor		74%		61%	4	11	5	21	0	2	0	1
Total	77 of 245	68%	13 of 30	56%	9	24	13	48	2	9	0	2

internal, payment, util → contain minimal code so little to no testing done (see first screenshot)

Reference: jaCoCo test report can be found under ./build/reports/jaCoCo/index.html

There were little to no changes to the UML from the midterm to the final project. Aside from minor name changes to not interfere with Java default calls (e.g. System became VideoCoSystem as System is a default class) and a few minor rearrangements of classes to different packages for organizational purposes, there was no change. Most of the work was from connecting the GUI to the backend. I'm very happy with the project and spent an overwhelming amount of time on the GUI :)

To improve, I would like to create more tests to bring the coverage up past 80% for the 4 main packages and clean up the GUI code a little more.

Happy holidays!