

Elevator Control System and Simulator

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Carleton University

Department of Systems and Computer Engineering

SYSC 3303A Real-Time Concurrent Systems Winter 2023

Iteration 2 - Adding the Scheduler and Elevator Subsystems.

@version 1.0, 02/04/23

@version 2.0, 02/27/23

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Group 7 Members:

* Ismail Zakaria

* Liu Patrick

* Nguyen Trong

* Elmokdad Hussein

* Ngo Huu Gia Bao

The distribution of work was coordinated using Atlassian Jira Software which can be viewed using this link: [ECSS](#) for quick reference – see APPENDIX A. Here below is a general summary:

Iteration 2:

- Trong: SchedulerState class, FloorState class, SchedulerStateTest, FloorStateTest class, and javadocs
- Bobby: FloorState class, README, refactoring, documentation
- Hussein: UI improvements, refactoring
- Patrick: Update Elevator Location feature, UML and State diagrams
- Zak: Proposing ideas, revisions









































































































Iteration 1:

- Trong: Elevator class, README, UML class & sequence, refactoring
- Bobby: Scheduler class, README, UI logger
- Hussein: Floor class, FloorTest, ElevatorTest
- Patrick: Parser class, ElevatorRequest class, ParserTest, Exception class
- Zak: Integration of system and system testing, revisions







































































































Everyone took part in major code reviews and approved pull requests.

APPENDIX A

Iteration 2

	ECSS-58	Javadocs + final edits	 Unassigned	 Trong Nguyen		 IN REVIEW	Unresolved	Feb 23, 2023	Feb 23, 2023
	ECSS-57	Proposal to refactor Elevator state machine implementation	 Unassigned	 Zakaria Ismail		 TO DO	Unresolved	Feb 22, 2023	Feb 22, 2023
	ECSS-56	Move Parser package into Floor package	 Unassigned	 Zakaria Ismail		 DONE	Done	Feb 21, 2023	Feb 23, 2023
	ECSS-55	Sending Elevator Location back to the Scheduler After Reaching Stop State	 Unassigned	 Patrick Liu		 DONE	Done	Feb 20, 2023	Feb 22, 2023
	ECSS-54	Improve Elevator State machine logic	 Unassigned	 Bobby Ngo		 DONE	Done	Feb 20, 2023	Feb 22, 2023
	ECSS-52	Implement SchedulerState enum based on StateMachine diagram	 Unassigned	 Trong Nguyen		 DONE	Done	Feb 18, 2023	Feb 21, 2023
	ECSS-51	Implement ElevatorState enum based on StateMachine diagram	 Unassigned	 Trong Nguyen		 DONE	Done	Feb 18, 2023	Feb 21, 2023
	ECSS-50	SchedulerState - Unit testing state machine implementation	 Trong Nguyen	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 20, 2023
	ECSS-49	ElevatorState - Unit Testing state machine implementation	 Trong Nguyen	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 20, 2023
	ECSS-48	Unit testing - Iteration 2	 Unassigned	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 20, 2023
	ECSS-47	ELEVATOR - State machine diagram	 Trong Nguyen	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 20, 2023
	ECSS-46	SCHEDULER - State machine diagram	 Trong Nguyen	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 20, 2023
	ECSS-45	README - update	 Bobby Ngo	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 22, 2023
	ECSS-44	Distribution of Responsibilities	 Bobby Ngo	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 22, 2023
	ECSS-43	UML Sequence Diagram - update	 Patrick Liu	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 22, 2023
	ECSS-42	UML Class Diagram - update	 Patrick Liu	 Trong Nguyen		 DONE	Done	Feb 8, 2023	Feb 22, 2023
	ECSS-41	Documentation - Iteration 2	 Trong Nguyen	 Trong Nguyen		 IN PROGRESS	Unresolved	Feb 8, 2023	Feb 22, 2023
	ECSS-40	Update UML Class diagram	 Bobby Ngo	 Bobby Ngo		 DONE	Done	Feb 4, 2023	Feb 4, 2023
	ECSS-39	Improve console logging UI	 Hussein El Mokdad	 Bobby Ngo		 DONE	Done	Feb 4, 2023	Feb 22, 2023
	ECSS-38	Review the output logging and add improvements to the presentation if possible	 Bobby Ngo	 Zakaria Ismail		 TO DO	Unresolved	Feb 4, 2023	Feb 4, 2023
	ECSS-37	Add sleep timer to allow the user to see the system interactions	 Bobby Ngo	 Zakaria Ismail		 TO DO	Unresolved	Feb 4, 2023	Feb 4, 2023

Iteration 1

Type	Key ↑	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated
	ECSS-1	Setup tasks	 Bobby Ngo	 Bobby Ngo	=	DONE ✓	Done	Jan 15, 2023	Feb 3, 2023
	ECSS-2	Iteration 1 Implementation	 Unassigned	 Patrick Liu	=	TO DO ▾	Unresolved	Jan 18, 2023	Jan 25, 2023
	ECSS-4	Submit Iteration 1 on BrightSpace	 Trong Nguyen	 SYSC3303 Project...	=	TO DO ▾	Unresolved	Jan 18, 2023	Feb 4, 2023
	ECSS-5	Elevator class	 Trong Nguyen	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Feb 2, 2023
	ECSS-6	Scheduler Class	 Bobby Ngo	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Jan 29, 2023
	ECSS-7	Floor class	 Hussein El Mokdad	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Jan 29, 2023
	ECSS-8	Complete README.txt	 Bobby Ngo	 SYSC3303 Project...	=	IN REVIEW ▾	Unresolved	Jan 18, 2023	Feb 3, 2023
	ECSS-9	Iteration 1 - Breakdown of Responsibilities	 Trong Nguyen	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Feb 3, 2023
	ECSS-10	Iteration 1 - UML Class Diagram & Sequence Diagrams	 Trong Nguyen	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Feb 4, 2023
	ECSS-11	Verify JavaDoc & Meaningful Comments	 Trong Nguyen	 SYSC3303 Project...	=	DONE ✓	Done	Jan 18, 2023	Feb 4, 2023
	ECSS-12	Verify Unit Testing for all Classes	 Trong Nguyen	 SYSC3303 Project...	=	IN PROGRESS ▾	Unresolved	Jan 18, 2023	Feb 4, 2023
	ECSS-13	Initial Environment Setup	 Zakaria Ismail	 Zakaria Ismail	=	DONE ✓	Done	Jan 20, 2023	Jan 29, 2023
	ECSS-14	Configure CI/CD Automated Testing	 Unassigned	 Zakaria Ismail	≡	TO DO ▾	Unresolved	Jan 21, 2023	Jan 24, 2023
	ECSS-15	Iteration 0 Results Processing	 Trong Nguyen	 Zakaria Ismail	=	DONE ✓	Done	Jan 21, 2023	Feb 3, 2023
	ECSS-16	Configure Logging	 Unassigned	 Zakaria Ismail	≡	TO DO ▾	Unresolved	Jan 21, 2023	Jan 26, 2023
	ECSS-17	Input File Parser and Tests	 Patrick Liu	 Patrick Liu	^	DONE ✓	Done	Jan 23, 2023	Feb 2, 2023
	ECSS-18	Fix/Setup Relative Filepath for input.txt file	 Unassigned	 Zakaria Ismail	≡	DONE ✓	Done	Jan 24, 2023	Jan 29, 2023
	ECSS-19	Setup config.properties file to select input file	 Unassigned	 Zakaria Ismail	≡	TO DO ▾	Unresolved	Jan 24, 2023	Jan 26, 2023
	ECSS-20	Unit test main.parser.Parser class	 Patrick Liu	 Zakaria Ismail	=	DONE ✓	Done	Jan 24, 2023	Feb 3, 2023
	ECSS-21	Unit test main.java.dto.ElevatorRequest class	 Patrick Liu	 Zakaria Ismail	=	DONE ✓	Done	Jan 24, 2023	Feb 3, 2023
	ECSS-22	README file	 Trong Nguyen	 Bobby Ngo	=	IN PROGRESS ▾	Unresolved	Jan 25, 2023	Feb 3, 2023
	ECSS-23	Create DOCs folder and include UML files	 Hussein El Mokdad	 Hussein El Mokdad	=	DONE ✓	Done	Jan 25, 2023	Feb 4, 2023
	ECSS-24	.gitignore for IntelliJ	 Zakaria Ismail	 Zakaria Ismail	=	DONE ✓	Done	Jan 25, 2023	Jan 25, 2023
	ECSS-25	Setup custom exception class with centralized error messages and refactor exception throws	 Unassigned	 Zakaria Ismail	▾	TO DO ▾	Unresolved	Jan 26, 2023	Jan 26, 2023
	ECSS-26	Unit test main.java.floor.Floor class	 Unassigned	 Zakaria Ismail	=	DONE ✓	Done	Jan 29, 2023	Feb 3, 2023
	ECSS-27	Integrate Iteration 1 Components	 Unassigned	 Zakaria Ismail	^	TO DO ▾	Unresolved	Jan 29, 2023	Feb 3, 2023
	ECSS-28	Phase 1 Component Integration - Parser, Floor, Elevator, Scheduler	 Zakaria Ismail	 Zakaria Ismail	^	DONE ✓	Done	Jan 29, 2023	Feb 2, 2023
	ECSS-30	Bi-directional Communication Implementation	 Zakaria Ismail	 Zakaria Ismail	^	DONE ✓	Done	Feb 2, 2023	Feb 4, 2023
	ECSS-31	Iteration 2 setup	 Unassigned	 Trong Nguyen	=	TO DO ▾	Unresolved	Feb 3, 2023	Feb 3, 2023
	ECSS-32	Verify that program can read the input file and pass the data back and forth	 Zakaria Ismail	 Zakaria Ismail	^	IN PROGRESS ▾	Unresolved	Feb 3, 2023	Feb 4, 2023
	ECSS-33	Standardize string output to use String.format for variables instead of + concat	 Zakaria Ismail	 Zakaria Ismail	≡	TO DO ▾	Unresolved	Feb 3, 2023	Feb 4, 2023
	ECSS-34	Added some more content to the readme	 Unassigned	 Trong Nguyen	=	DONE ✓	Done	Feb 4, 2023	Feb 4, 2023
	ECSS-35	Implement remaining test cases (scheduler, floor, and elevator)	 Hussein El Mokdad	 Hussein El Mokdad	=	IN PROGRESS ▾	Unresolved	Feb 4, 2023	Feb 4, 2023
	ECSS-36	Documentation breakdown of the responsibilities of each team member for iteration 1	 Trong Nguyen	 Trong Nguyen	=	IN PROGRESS ▾	Unresolved	Feb 4, 2023	Feb 4, 2023