

## # 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 1 - Establish Connections between the three subsystems.

@version 1.0, 02/04/23

@version 2.0, 02/22/23

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### ## Group 7 Members:

\* Ismail Zakaria

\* Liu Patrick

\* Nguyen Trong

\* Elmokdad Hussein

\* Ngo Huu Gia Bao

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The distribution of work was coordinated using Atlassian Jira Software which can be viewed using this link: ECSS for quick reference – see APPENDIX A.

### 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.

### Iteration 2:

Trong: SchedulerState class, FloorState class, SchedulerStateTest, FloorStateTest class, and javadocs








































Bao: FloorState class, README, refactoring, documentation

























































Hussein: UI improvements, refactoring

Patrick: Update Elevator Location feature, UML and State diagrams

Zak: Proposing ideas, revisions

APPENDIX A

Type	Key ↑	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated
<div></div>	ECSS-1	Setup tasks	<div> Bobby Ngo</div>	<div> Bobby Ngo</div>		<div><div></div>DONE</div>	Done	Jan 15, 2023	Feb 3, 2023
<div></div>	ECSS-2	Iteration 1 Implementation	<div> Unassigned</div>	<div> Patrick Liu</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-4	Submit Iteration 1 on BrightSpace	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-5	Elevator class	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 2, 2023
<div></div>	ECSS-6	Scheduler Class	<div> Bobby Ngo</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Jan 29, 2023
<div></div>	ECSS-7	Floor class	<div> Husein El Mokdad</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Jan 29, 2023
<div></div>	ECSS-8	Complete README.txt	<div> Bobby Ngo</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-9	Iteration 1 - Breakdown of Responsibilities	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 3, 2023
<div></div>	ECSS-10	Iteration 1 - UML Class Diagram & Sequence Diagrams	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-11	Verify JavaDoc & Meaningful Comments	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-12	Review Unit Testing for all Classes	<div> Trong Nguyen</div>	<div> SYS3303 Project Group 7</div>		<div><div></div>DONE</div>	Done	Jan 18, 2023	Feb 4, 2023
<div></div>	ECSS-13	Initial Environment Setup	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 20, 2023	Jan 29, 2023
<div></div>	ECSS-14	Configure CI/CD Automated Testing	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Jan 21, 2023	Jan 24, 2023
<div></div>	ECSS-15	Iteration 0 Results Processing	<div> Trong Nguyen</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 21, 2023	Feb 3, 2023
<div></div>	ECSS-16	Configure Logging	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Jan 21, 2023	Jan 26, 2023
<div></div>	ECSS-17	Input File Parser and Tests	<div> Patrick Liu</div>	<div> Patrick Liu</div>		<div><div></div>DONE</div>	Done	Jan 23, 2023	Feb 2, 2023
<div></div>	ECSS-18	Fix/Setup Relative Filepath for input.txt file	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 24, 2023	Jan 29, 2023
<div></div>	ECSS-19	Setup config.properties file to select input file	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Jan 24, 2023	Jan 26, 2023
<div></div>	ECSS-20	Unit test main.parser.Parser class	<div> Patrick Liu</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 24, 2023	Feb 3, 2023
<div></div>	ECSS-21	Unit test main.java.dto.ElevatorRequest class	<div> Patrick Liu</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 24, 2023	Feb 3, 2023
<div></div>	ECSS-22	README file	<div> Trong Nguyen</div>	<div> Bobby Ngo</div>		<div><div></div>IN PROGRESS</div>	Unresolved	Jan 25, 2023	Feb 3, 2023

Type	Key ↑	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated
<div></div>	ECSS-23	Create DOCs folder and include UML files	<div> Husein El Mokdad</div>	<div> Husein El Mokdad</div>		<div><div></div>DONE</div>	Done	Jan 25, 2023	Feb 4, 2023
<div></div>	ECSS-24	.gitignore for IntelliJ	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 25, 2023	Jan 25, 2023
<div></div>	ECSS-25	Setup custom exception class with centralized error messages and refactor exception throws	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Jan 26, 2023	Jan 26, 2023
<div></div>	ECSS-26	Unit test main.java.floor.Floor class	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 29, 2023	Feb 3, 2023
<div></div>	ECSS-27	Integrate Iteration 1 Components	<div> Unassigned</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 29, 2023	Feb 8, 2023
<div></div>	ECSS-28	Phase 1 Component Integration - Parser, Floor, Elevator, Scheduler	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Jan 29, 2023	Feb 2, 2023
<div></div>	ECSS-30	Bi-directional Communication Implementation	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Feb 2, 2023	Feb 4, 2023
<div></div>	ECSS-31	Iteration 2 setup	<div> Unassigned</div>	<div> Trong Nguyen</div>		<div><div></div>TO DO</div>	Unresolved	Feb 3, 2023	Feb 3, 2023
<div></div>	ECSS-32	Verify that program can read the input file and pass the data back and forth	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>DONE</div>	Done	Feb 3, 2023	Feb 4, 2023
<div></div>	ECSS-33	Standardize string output to use String.format for variables instead of + concat	<div> Zakaria Ismail</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Feb 3, 2023	Feb 4, 2023
<div></div>	ECSS-34	Added some more content to the readme	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 4, 2023	Feb 8, 2023
<div></div>	ECSS-35	Implement remaining test cases (scheduler, floor, and elevator)	<div> Husein El Mokdad</div>	<div> Husein El Mokdad</div>		<div><div></div>DONE</div>	Done	Feb 4, 2023	Feb 4, 2023
<div></div>	ECSS-36	Documentation breakdown of the responsibilities of each team member for iteration 1	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 4, 2023	Feb 4, 2023
<div></div>	ECSS-37	Add sleep timer to allow the user to see the system interactions	<div> Bobby Ngo</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Feb 4, 2023	Feb 4, 2023
<div></div>	ECSS-38	Review the output logging and add improvements to the presentation if possible	<div> Bobby Ngo</div>	<div> Zakaria Ismail</div>		<div><div></div>TO DO</div>	Unresolved	Feb 4, 2023	Feb 4, 2023
<div></div>	ECSS-39	Improve console logging UI	<div> Husein El Mokdad</div>	<div> Bobby Ngo</div>		<div><div></div>IN REVIEW</div>	Unresolved	Feb 4, 2023	Feb 21, 2023
<div></div>	ECSS-40	Update UML Class diagram	<div> Bobby Ngo</div>	<div> Bobby Ngo</div>		<div><div></div>DONE</div>	Done	Feb 4, 2023	Feb 4, 2023
<div></div>	ECSS-41	Documentation - Iteration 2	<div> Unassigned</div>	<div> Trong Nguyen</div>		<div><div></div>TO DO</div>	Unresolved	Feb 8, 2023	Feb 8, 2023
<div></div>	ECSS-42	UML Class Diagram - update	<div> Patrick Liu</div>	<div> Trong Nguyen</div>		<div><div></div>IN PROGRESS</div>	Unresolved	Feb 8, 2023	Feb 22, 2023
<div></div>	ECSS-43	UML Sequence Diagram - update	<div> Patrick Liu</div>	<div> Trong Nguyen</div>		<div><div></div>IN PROGRESS</div>	Unresolved	Feb 8, 2023	Feb 22, 2023
<div></div>	ECSS-44	Distribution of Responsibilities	<div> Bobby Ngo</div>	<div> Trong Nguyen</div>		<div><div></div>IN PROGRESS</div>	Unresolved	Feb 8, 2023	Feb 22, 2023
<div></div>	ECSS-45	README - update	<div> Bobby Ngo</div>	<div> Trong Nguyen</div>		<div><div></div>IN PROGRESS</div>	Unresolved	Feb 8, 2023	Feb 22, 2023
<div></div>	ECSS-46	SCHEDULER - State machine diagram	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 8, 2023	Feb 20, 2023
<div></div>	ECSS-47	ELEVATOR - State machine diagram	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 8, 2023	Feb 20, 2023
<div></div>	ECSS-48	Unit testing - Iteration 2	<div> Unassigned</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 8, 2023	Feb 20, 2023
<div></div>	ECSS-49	ElevatorState - Unit Testing state machine implementation	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 8, 2023	Feb 20, 2023
<div></div>	ECSS-50	SchedulerState - Unit testing state machine implementation	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 8, 2023	Feb 20, 2023
<div></div>	ECSS-51	Implement ElevatorState enum based on StateMachine diagram	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 18, 2023	Feb 20, 2023
<div></div>	ECSS-52	Implement SchedulerState enum based on StateMachine diagram	<div> Trong Nguyen</div>	<div> Trong Nguyen</div>		<div><div></div>DONE</div>	Done	Feb 18, 2023	Feb 20, 2023