

Elevator System

Traceability

CS132: Software Engineering

Group 15

Authors: Yuhang Zhu, Yunfei Wang, Shunkang Jia

Contents

1	System Architecture	3
2	Software Traceability	4

1 System Architecture

The system architecture is shown below:

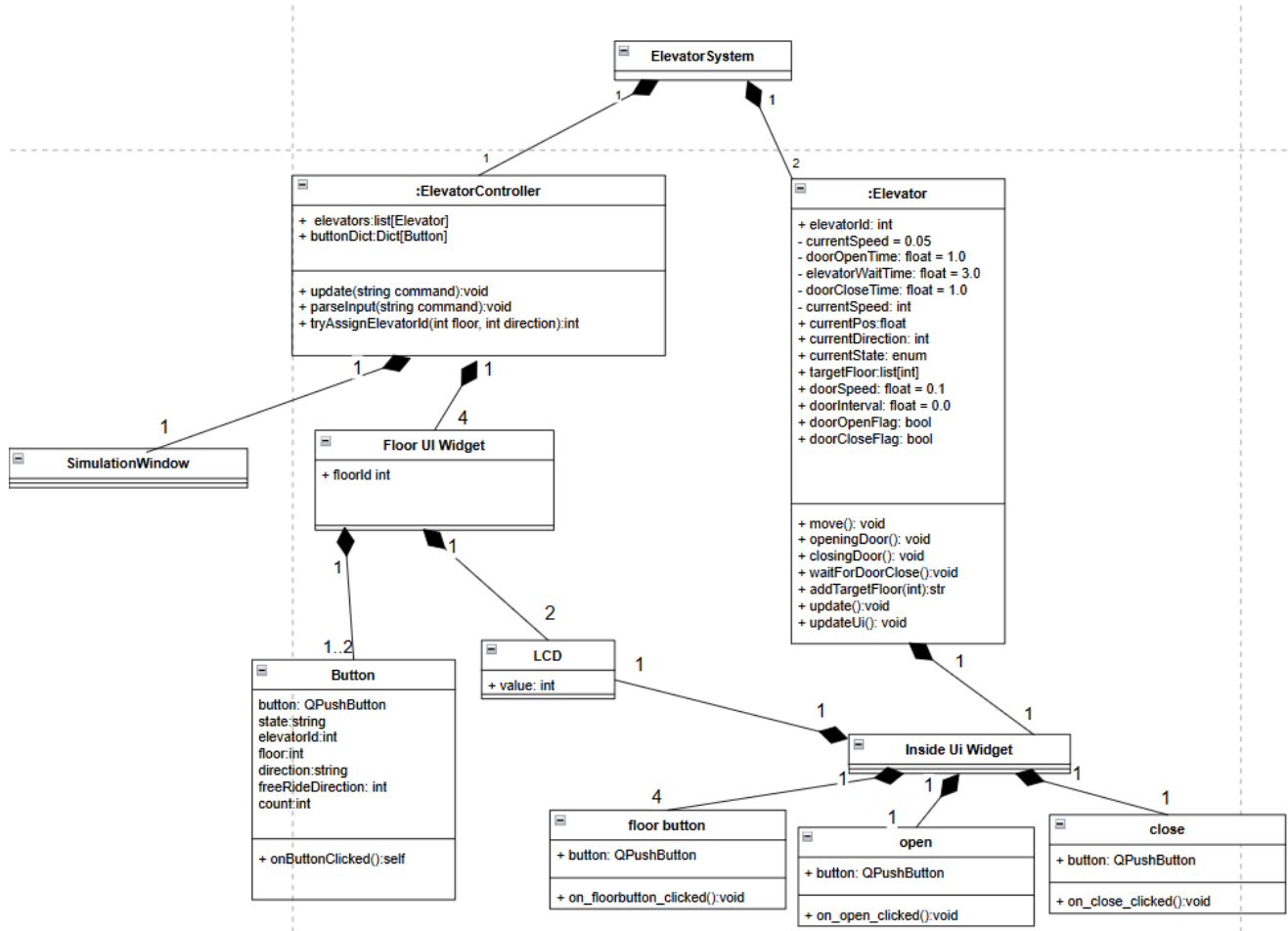


Figure 1: System Architecture

2 Software Traceability

Requirement	Implemented by Specification	Validated by Test
R1 (Elevator UI)	S1(1.1-1.9)	T1.2, T1.3, T1.4, T1.9 ,T1.16, T2
R1.1	S1.1	T1.2.1, T1.2.2, T1.2.3, T1.2.4, T1.6
R1.2	S1.1 S1.2	T1.3.1, T1.3.2, T1.4.1, T1.4.2, T1.4.3
R1.3	S1.1 S1.2	T1.9, T2.6, T2.7, T2.8
R1.4	S1.3 S1.4 S1.5 S1.6 S1.7 S1.8 S1.9	T2.1.1 ~ T2.1.19
R2 (Floor UI)	S2.1 S2.2 S2.3	T1.11, T1.16, T2.1, T2.2, T2.3, T2.4
R2.1	S2.1	T1.16
R2.2	S2.2 S2.3	T1.12, T2.1.1 ~ T2.1.19
R2.3	S2.1	T1.11
R2.4	S2.3 S2.4	T1.16
R3 (Elevator Controller System)	S2.2 S2.3 S2.4	T2.1, T3, T4
R3.1	S2.2 S2.3 S2.4	T3.1, T3.2, T3.3, T3.4, T4.1
R3.1.1	S2.2 S2.3 S2.4	T3.1.1, T3.1.2
R3.1.2	S2.2 S2.3 S2.4	T4.1.1, T4.1.2, T4.1.3, T4.1.4, T4.1.5
R3.1.3	S2.2 S2.3 S2.4	T3.2, T4.1.2, T4.1.3
R3.2	S1.3 S1.6 S1.7 S1.8 S2	T3.1, T3.2, T3.3, T3.4, T4.2
R3.2.1	S1.3	T4.2.1
R3.2.2	S1.6 S1.8	T4.2.1 ,T4.2.2
R3.2.3	S1.7	T4.2.2 ,T4.2.3
R3.2.4	S1.7 S1.8 S2	T4.2.4
R3.2.5	S1.7 S2	T4.2.4
R3.3	S2	T2.1.1 ~ T2.1.19
R3.4	S1.3	T4.1.6, T4.1.7, T4.1.8