

Software Engineering

ASSIGNMENT-2

The elevator has the basic functions such as moving up and down, open and close doors, and pick up passengers. The elevator is supposed to be used in a building having floors numbered from 1 to MaxFloor, where the first floor is the lobby. There are car call buttons in the car corresponding to each floor. For every floor except for the top floor and the lobby, there are two hall call buttons for the passengers to call for going up and down. There is only one down hall call button at the top floor and one up hall call button in the lobby. When the car stops at a floor, the doors are opened and the car lantern indicating the current direction the car is going is illuminated so that the passengers can get to know the current moving direction of the car. Emergency brake will be triggered and the car will be forced to stop under any unsafe conditions.

For the Elevator Control System, draw

- 1) UML based Deployment Diagram
- 2) Activity Diagram
- 3) Use-Case Diagram
- 4) System Context Diagram (using Hatley and Pirbhai Modeling)
- 5) Architectural Flow Diagram (with 2 level hierarchy)

Note: Use standard notation for the specified diagram.