

The class conflict

SWITCH::= on | off

Report::= Name of the conflicts

Time: 8...18

Time > 0

Class\_ID: N

Class\_ID > 0

student\_ID: N

student\_ID > 0

Conflict: N

Conflict > 0

TimeButtons

Input: 8...18 -> SWITCH

ClassButtons

Input: 1.....N -> SWITCH

ReportButtons

Extput: 1.... Conflict -> Report

Report:

List of the conflicts with student\_ID.

Complete state space  
attempt #1

System  
Elevator  
TimeButtons  
ClassButtons  
ReportButtons

Conlict !=0  
-> TimeButtons(NewTime)=on V  
ReportButtons(NewTime)!=0

Complete state space  
attempt #2

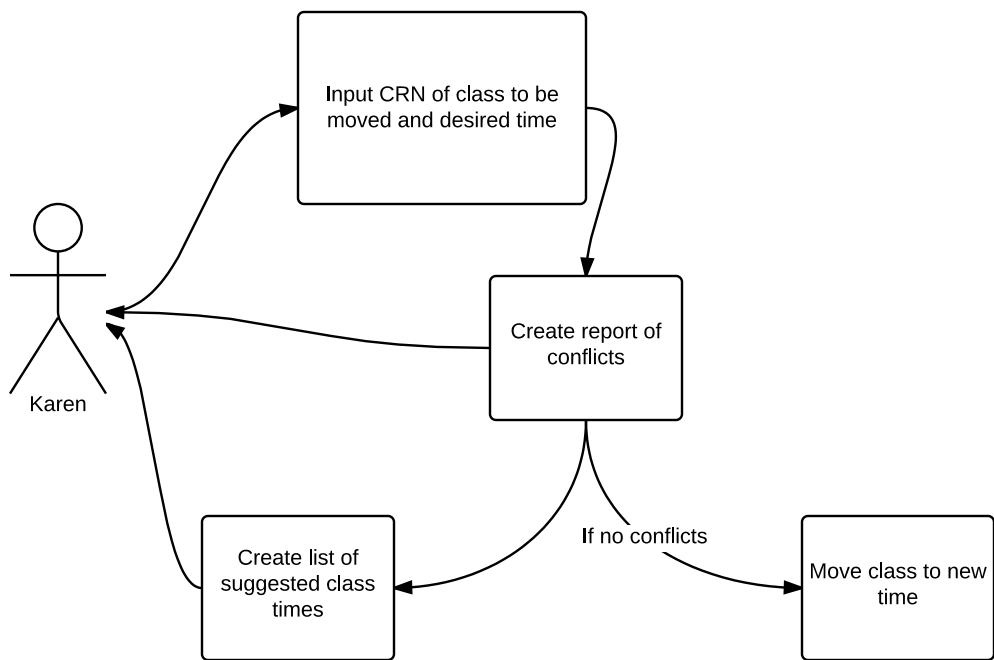
System  
Elevator  
TimeButtons  
ClassButtons  
ReportButtons

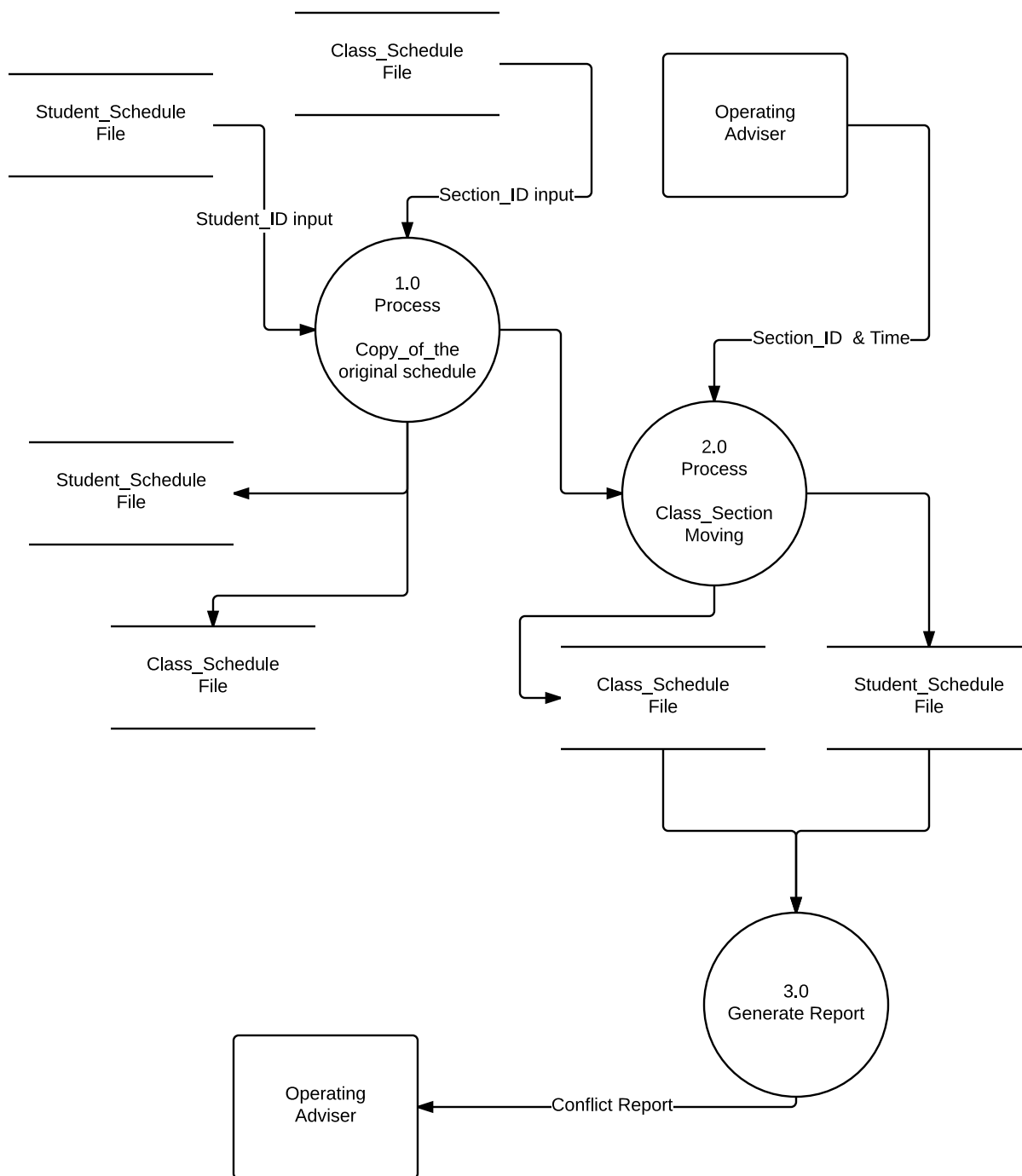
Conlict !=0  
=> TimeButtons(NewTime)=on V  
ReportButtons(NewTime)!=0  
Conlict =0=>  
(f:8...18 \* TimeButtons(f)= off ^ ReportButtons(f)!=0)

## Logic specifications

### Class Conflict formula:

- New class time replace the old class time.
- Compare it to students schedules who are in the class.
- List all the conflicts from High priority to low priority
- Senior has the Highest priority then Junior then sophomore then freshman (class size will be considered afterwards)
- Reoport the number of conflicts.
- Suggest a new time





# Class Schedule

## Entity Relationship Diagram

