IE-3081-Homework#5

Student information

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System Component

System: Modern Study Areas

Entities: People (who want to study in this area), Officer, Ticket Controller,

WaitingRoomQueue, StudyRooms, PaymentOperation

Attributes: Study rooms, ticket machine

Activities: Study, work or meeting

Events: Getting ticket from ticket machine, studying in the room, paying the officer when

leaving, leaving at building

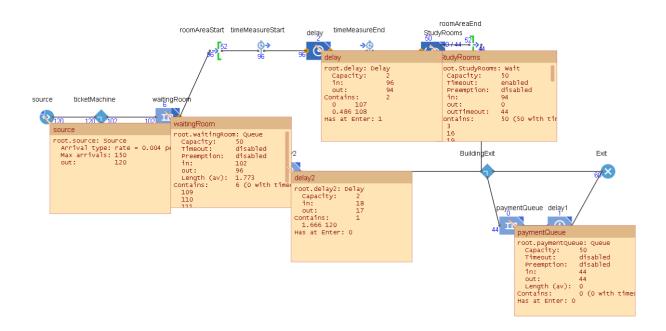
State Variables: Number of study rooms, number of people who want to use the room at the

queue, number of people looking for an empty room, number of occupied and empty rooms.

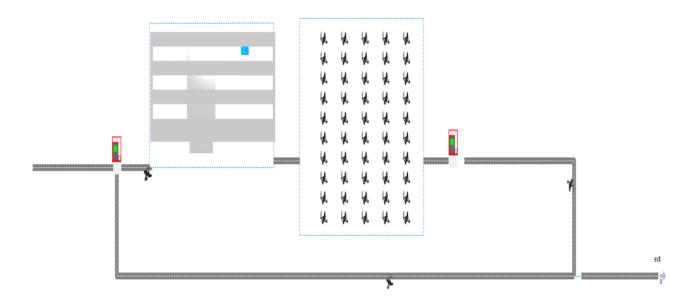
Relations Between System Components

Relations Between System Components Our system is a modern study room. The people will come to this building with their friends and try to find an empty room to study, work or meeting. There is a ticket machine at the entrance of the building where people will get their tickets while entering building. When they are leaving there is an officer which will get the money from the people based on their stay in the room

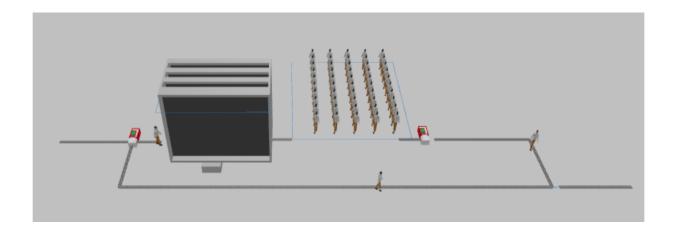
Generation Of Random Veriates



2D View of The Model



3D View of The Model



The input variables

Decision variables: Number of people entering the system

Uncontrollable variables: Number of people who don't want to wait in queue

The type and the values of input variables

People

The output variables

Total people in queue

Total people in system

Total people in study room

Total people in waiting room

Output values and responses

Number of waiting people