## Modelling and Discrete Simulation Homework V

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**System:** Hospital Emergency Room

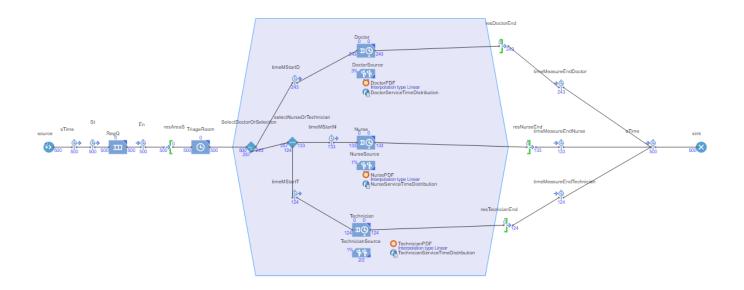
**Relations between Components of a System** 

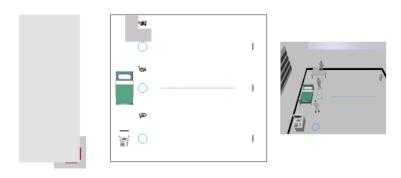
**Entities:** Doctor, nurse, technician, patient

**Attributes:** Get treatment

**Events:** Reach doctor, nurse or technician

Model view:





State variables: Number of patients treated, number of waiting patient

**Input variables:** DoctorServiceVariable, NurseServiceVariable, TechnicianServiceVariable

**Output variables:** I measure the length of Registration, waiting time in the registration, average patient treatment time for doctor, nurse and technician, passed system time in hospital emergency room.

**Type of input parameters:** DoctorServiceVariable, NurseServiceVariable, TechnicianServiceVariable are PDF type. randomVarDoctor, randomVarNurse, randomVarTechnician are Double random type.

## The Output of parameters:

