**OBJECT MODEL DESCRIPTION**

1. **Hospital Enterprise:** There is collection of organizations listed below
   1. **Doctor Organization :**

* Doctor Register the patients for the 1st time.
* This organizations will help to diagnos , assess and treat the patients.
* They provides medication to patient.
* They communicate to pharmacy and provide them order of the prescription given to the patient.
* They communicate with FDA to provide patients feedback about the drug.
* They can sell only approved drug’s by FDA.
  1. **Nurse Organization :**
* This Organization helps to carry out the Vital Signs of the patients and setup the
* This Organization receives work request from Doctors to process the Patient’s test.
  1. **Lab Assistant Organization**
* This Organization receives work request from Doctors to process the Patient’s test.
* It performs all the required test and generated a report for the patient.
* Hence Doctor will able to diagnose the patient after viewing the reports.

1. **Pharmaceutical Companies Enterprise** : There is collection of organizations listed below
   1. **Manufacturer organization :**

* This Organization creates the drug and its description to the list of drugs.
* It also provides the medication guide for the each drug.
* This Organization keeps track of the feedback received from FDA and analyze the results.
* This will be helpful to see which drug has higher side-effects and callback of the product in case of serious threat.

1. **Pharmacy Enterprise :**
   1. **TechnicalPharmacistOrganization:**

* This takes the request from doctor/patient about the prescriptions and provide the drug to the patient after verification with the doctor.
* This keeps record of the drug along with its manufacture.
* In case of call back product , all the drugs are shipped back to the pharmacy.

1. **FDA Enterprise :**
   1. **AuthorityFDAManager Organization:**

* It gets the request from the Manufacture for the drug approval.
* It goes through the REMS (Risk Evaluation and Mitigation System) report and analyse the report and approve/reject based on the benefits and side effects.
* It gets the report from the doctor and based on the feedback it analyse the evaluate it.
* If reports to manufacture in case of adverse events and ask him to call back of products if required.
* It has a list of suspicious product and analyse it though BI(graph) which will secure patients life from adverse side effects.