**Assignment 2**

**Health Care Conceptual Model**

1. Identifying Entities:

clinic - clinic\_id ,name,location

hospital - hospital\_id, name, location

doctor - doctor\_id, doctor\_name, phone\_no,qualification, specialization(service)

services - service\_id, name ,cost

pharmacy - pharmacy\_id,name, location

medicine - med\_id, name, brand,cost

patient - patient\_id , name, age, sex, address ,phone, blood\_group

patient\_history - disease\_history , treatment

appointment - appointment\_id , patient\_id , date

consultation - c\_id, doctor\_id, date,patient\_id

feedback - feedback\_id, description,doctor\_id, patient\_id

discussion - p\_id, description

billing - billing\_id, amount , type

2. Defining Business Rules:

* Hospitals , Clinics, Pharmacies,Doctor, Patients can be registered
* Services are provided by Hospitals, Clinics, Doctors
* Patient can appoint to Hospitals, Clinics, Doctors
* Patient can consult to specific Doctor
* Patient can give feedback to doctor
* Patient can open conversation in Discussion section
* Esewa or other payments be done by patients to hospital, pharmacies, doctors
* History is maintained for users
* Admin verifies Hospital, Clinic, Doctor and Pharmacy registration
* Admin can modify registered user details, payments and other features

3. Conceptual Model:

Link : <https://drive.google.com/file/d/14xF0KNHWE3Q0FpjiST_29S9dqutnoLtU/view?usp=sharing>

**Travel Agency Conceptual Model**

1. Identifying Entities:

package - package\_id, name, start\_date, end\_date, description, cost,status

destination - destination\_id, location\_name,package\_id

hotel - hotel\_id, name, location, cost,package\_id

transport - transport\_id, type, cost,package \_id

customer - customer\_id, name, age, phone, email

booking - booking\_id, date , customer\_id

payment - payment\_id, type, amount

customer\_history - ch\_id, customer\_id, date, package\_id,payment\_id

employee - employee\_id, name,age, phone, email

2. Defining Business Rules:

* Contains three groups : Customer, Employee, Admin
* Packages are listed with location of visit,hotel, transport and cost
* Packages history be maintained regarding expiry or ongoing
* Customer can book the packages
* Payment can be done through application
* Customer History be maintained
* Employee can modify packages, locations, hotel, transport info
* Admin has overall access

3. Conceptual Model:

Link : <https://drive.google.com/file/d/1DyUasMRG-JIWR1eKkn5Yfqrrc2PL55-0/view?usp=sharing>