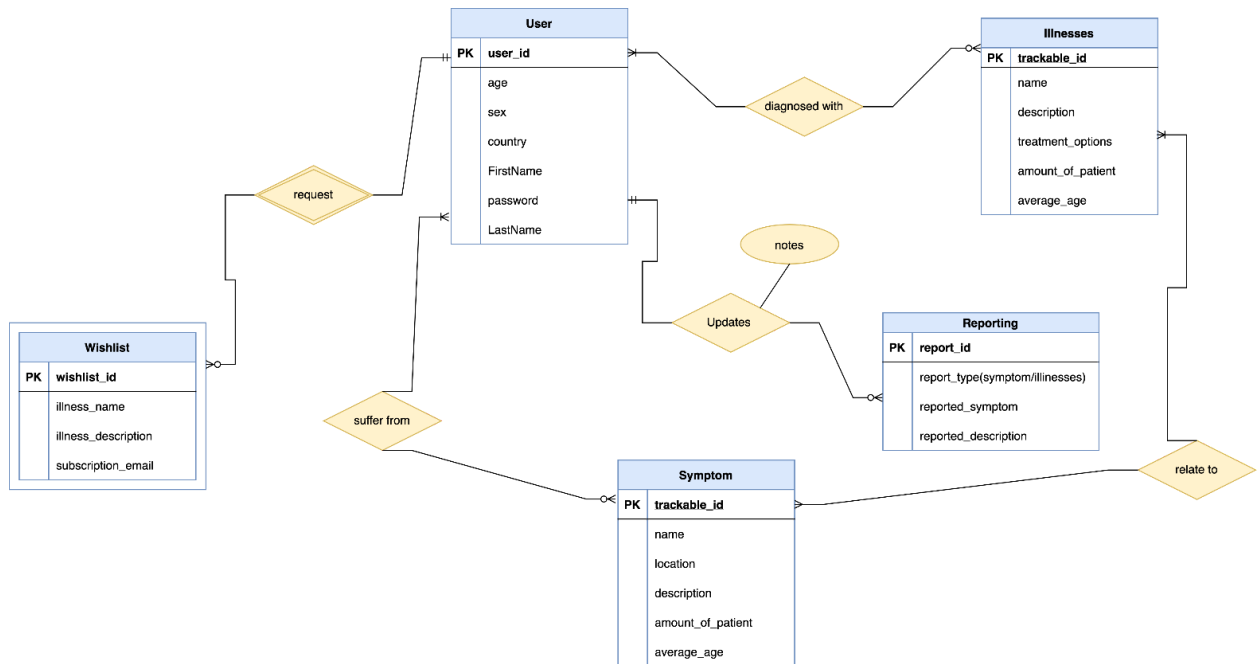


Team 092 (SHRM) - Conceptual and Logical Database Design

1. Application ER diagram



Assumptions:

1. An illness may have multiple symptoms.
2. A specific symptom may be shared by many kinds of illnesses.
3. A user may be diagnosed with 0 to many types of illnesses.
4. A specific illness has at least one user diagnosed with it (since our database is gathered from user feedback).
5. A user may suffer from 0 to many types of symptoms.
6. A specific symptom has at least one user suffering from it (since our database is gathered from user feedback).
7. A user can have zero to several wishes and each wish belongs to one user. The subscription_email row records who asks for what information, the website holder will send notification to the user when the requested update is made.
8. We assume that a single wish can only be requested by one user.
9. A user can make updates to zero to multiple reports/feedbacks.
10. We assume that a report can only be updated by one user.

2. Logical design (relational schema)

```
CREATE TABLE USER(  
  user_id INT,  
  sex VARCHAR(255),  
  country VARCHAR(255),  
  FirstName VARCHAR(255),  
  LastName VARCHAR(255),  
  password VARCHAR(255),  
  age INT,  
  PRIMARY KEY(user_id)  
);  
  
CREATE TABLE ILLNESES(  
  trackable_id INT,  
  name VARCHAR(255),  
  description VARCHAR(255),  
  treatment_options VARCHAR(255),  
  amount_of_patient INT,  
  average_age INT,  
  PRIMARY KEY(trackable_id)  
);  
  
CREATE TABLE SYMPTOMS(  
  trackable_id INT,  
  amount_of_patient INT,  
  average_age INT,  
  name VARCHAR(255),  
  location VARCHAR(255),  
  description VARCHAR(255),  
  PRIMARY KEY(trackable_id)  
);  
  
CREATE TABLE REPORTING(  
  report_id INT,  
  report_type VARCHAR(255),  
  reported_symptom VARCHAR(255),  
  reported_description VARCHAR(255),  
  PRIMARY KEY(report_id)  
);  
  
CREATE TABLE WISHLIST(  
  wishlist_id INT,  
  illness_name VARCHAR(255),  
  illness_description VARCHAR(255),  
  user_id INT,  
  subscription_email VARCHAR(255),  
  PRIMARY KEY(wishlist_id),  
  FOREIGN KEY(user_id) REFERENCES USER(user_id)  
);  
  
CREATE TABLE relate_to(  
  illness_name VARCHAR(255),  
  symptom_name VARCHAR(255),  
  PRIMARY KEY(illness_name, symptom_name),  
  FOREIGN KEY(illness_name) REFERENCES ILLNESES(name),  
  FOREIGN KEY(symptom_name) REFERENCES SYMPTOMS(name)  
);  
  
CREATE TABLE diagnosed_with(  
  illness_name VARCHAR(255),  
  user_id int,  
  PRIMARY KEY(illness_name, user_id),  
  FOREIGN KEY(illness_name) REFERENCES ILLNESES(name),  
  FOREIGN KEY(user_id) REFERENCES USER(user_id)  
);  
  
CREATE TABLE suffer_from(  
  user_id int,  
  symptom_name VARCHAR(255),  
  PRIMARY KEY(user_id, symptom_name),  
  FOREIGN KEY(user_id) REFERENCES USER(user_id),  
  FOREIGN KEY(symptom_name) REFERENCES SYMPTOMS(name)  
);
```