## **PSIRT**

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CSC 263 Final Project RAM - Roya, Aaron, Michael

### Roles

**Roya** - Frontend (HTML), Styling (CSS), Backend (PHP), Client Functionality, Registration Functionality

**Michael** - Frontend, Backend, MySQL DB Design/Setup, Handler Functionality, Landing Functionality

**Aaron** - Frontend, Backend, Sitter Functionality, Login Functionality

## Case Analysis

When analyzing the case study, we thought it would be best to split up the application into three dashboards (views):

#### Client:

- Create orders
- View sitter requests
  - Approve or deny
- Add comments to orders
- Update status of orders
- View order history

#### Handler:

- See all orders
- Suggest sitters and create sitter requests
- Add/remove available services

#### Sitter:

- View current jobs
  - Add comments
  - Mark as done/Submit service report
- View previously completed jobs/service reports

This allowed us to keep the application usage for different roles separate, as well as ensuring that different roles were not able to access features that were not intended for them.

Additionally, it also made the development process easier as we all chose a specific view to work on, then coming together to combine them into one singular application.

## Schema Design

(With PK and FK)

*User* (userID [PK], firstname, lastname, type, address, phoneNumber, username, password, emailAddress, ipAddress)

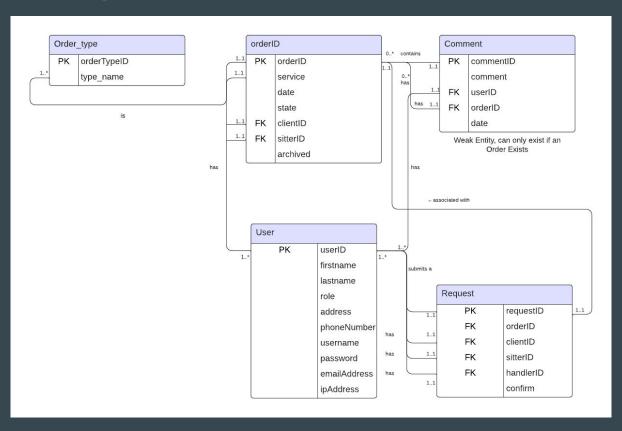
Order (orderID [PK], service, dat, state, clientID [FK], sitterID [FK], archived)

Comment (commentID [PK], comment, userID [FK], orderID [FK], date)

Request (requestID [PK], orderID [FK], clientID [FK], sitterID [FK], handlerID [FK], confirm)

Order\_type (orderTypeID [PK], type\_name)

## **Entity Relationship Diagram**



Unnormalized Form (UNF):	First Normal Form (1NF):
UNF will represent the initial structure of the entities and their attributes.	User (userID [PK], firstname, lastname, type, address, phoneNumber, username, password, emailAddress, ipAddress)
	Order (orderID [PK], service, dat, state, clientID [FK], sitterID [FK], archived)
User (userID [PK], username, password, firstname, lastname, type, address, phoneNumber, emailAddress, ipAddress)	Comment (commentID [PK], comment, userID [FK], orderID [FK], date)
Order (orderID [PK], service, date, state, clientName, clientAddress, clientPhoneNumber, sitterName, sitterAddress, sitterPhoneNumber, archived)	Request (requestID [PK], orderID [FK], clientID [FK], sitterID [FK], handlerID [FK], confirm)
	Order_type (orderTypeID [PK], type_name)
Comment (commentID [PK], comment, userName, orderID [FK], date)	In this step, we removed repeating groups and made sure each attribute contains only atomic values.
Request (requestID [PK], orderID [FK], clientName, clientAddress, clientPhoneNumber, sitterName, sitterAddress, sitterPhoneNumber, handlerName, handlerAddress, handlerPhoneNumber, confirm)	User: no changes were made, the attributes were already atomic
	<b>Order</b> : moved client and sitter information to a separate table to avoid repeating groups, added clientID and sitterID as FK
Order_type (orderTypeID [PK], typeName)	Comment: no changes were made, the attributes were already atomic
	<b>Request</b> : moved client, sitter, and handler information to separate tables, added clientID, sitterID, and handlerID as fk
Normalization (UNF-1NF)	Order_type: no changes were made, the attributes were already atomic

Second Normal Form (2NF):	Third Normal Form(3NF):
User (userID [PK], firstname, lastname, type, address, phoneNumber, username, password, emailAddress, ipAddress)	User (userID [PK], firstname, lastname, type, address, phoneNumber, username, password, emailAddress, ipAddress)
Order (orderID [PK], service, dat, state, clientID [FK], sitterID [FK], archived)	Order (orderID [PK], service, dat, state, clientID [FK], sitterID [FK], archived)
Comment (commentID [PK], comment, userID [FK], orderID [FK], date)	Comment (commentID [PK], comment, userID [FK], orderID [FK], date)
Request (requestID [PK], orderID [FK], clientID [FK], sitterID [FK], handlerID [FK], confirm)  Order type (orderTypeID [PK], type name)	Request (requestID [PK], orderID [FK], clientID [FK], sitterID [FK], handlerID [FK], confirm)
	Order_type (orderTypeID [PK], type_name)

No changes needed for 3NF: there are no

transitive dependencies.

## No changes needed for 2NF: all non-key attributes are fully functionally dependent on the primary key.

Normalization (2NF-3NF)

## Demo Time!

# Thank you for your attention! Any questions?