



**Department of Electrical  
& Computer Engineering**  
Faculty of Engineering & Architectural Science

Course Title:	Software Design Architecture
Course Number:	COE692
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Instructor:	Dr. Faezeh Ensan
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Assignment/Lab Number:	Lab 3
Assignment/Lab Title:	Lab 3

Submission Date:	3/11/2021
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\*By signing above you attest that you have contributed to this written lab report and confirm that all work you have contributed to this lab report is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at: <http://www.ryerson.ca/senate/current/pol60.pdf>

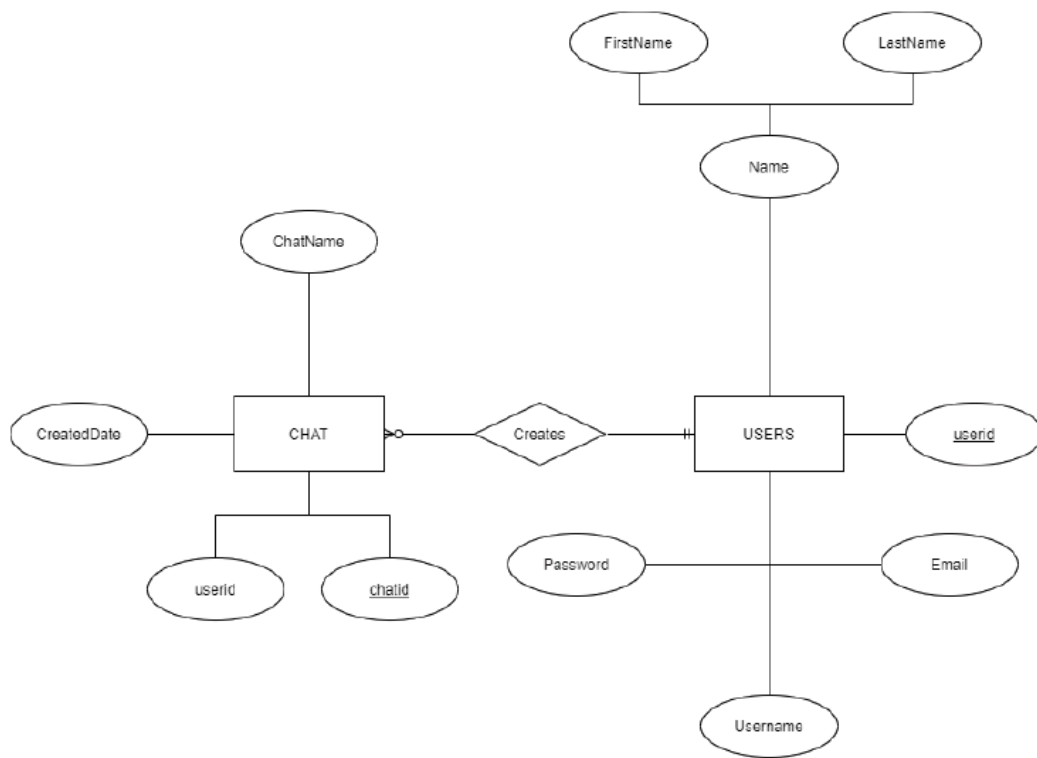


Figure 1: ER Diagram

#### Description:

The ER Diagram consists of two entities: Chat and User. There is a mandatory/optional one-to-many relationship between Chat and User. This means that a chat must be created by only one user and a user can create zero-to-many chats. User have a firstname, lastname, userid, password, username, and email. Chats have a chatname. Chatid, userid, and createdDate.

#### SQL Code To Create Tables:

```

CREATE TABLE USERS (
  firstname VARCHAR(50),
  lastname VARCHAR(50),
  userid INT NOT NULL AUTO_INCREMENT,
  PRIMARY KEY (userid),
  username VARCHAR(50) NOT NULL,
  password VARCHAR(50) NOT NULL,
  email VARCHAR(50) NOT NULL,
  UNIQUE (username)
);
  
```

```
CREATE TABLE CHAT (  
  chatname VARCHAR(50),  
  createDate DATE,  
  chatid INT NOT NULL AUTO_INCREMENT,  
  PRIMARY KEY (chatid),  
  FOREIGN KEY (userid) REFERENCES USERS (userid),  
  UNIQUE (chatname)  
);
```

**Screenshot of Tables in the Database:**

