

## **EECS 3421 M Assignment 3**

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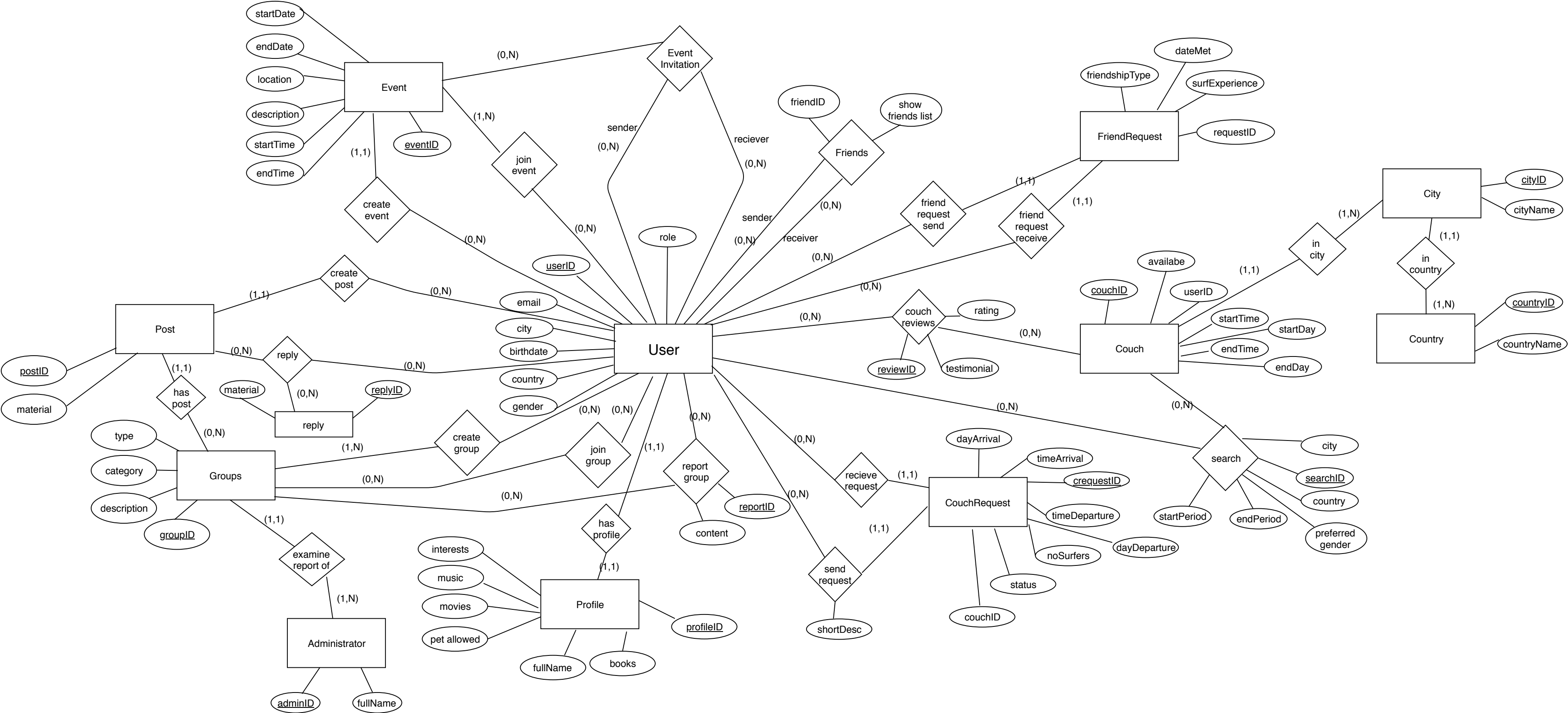
grace days used: 3

grace days remaining: 0

### **Assumptions:**

- 1) a single user can report multiple groups similarly a group can be reported by multiple users.
- 2) a single user can join multiple groups similarly a group can be joined by multiple users at the same time.
- 3) a single user can have exactly one profile and a single profile can be associated with exactly one user.
- 4) Though multiple requests can be received from a single user for multiple couches, exactly one request for a single couch will be accepted by the user.
- 5) a single user can send requests for multiple couches at the same time, a single couch can be associated with exactly one request.
- 6) a user can review multiple couches at the same time and a couch can be reviewed by multiple users at the same time.
- 7) a couch is present in exactly one city, whereas a city can have multiple couches (minimum 1 as to avoid unnecessary data).
- 8) a city is located in exactly one country, whereas a country has multiple cities (minimum 1 as to avoid unnecessary data).
- 9) a single user can send multiple friend requests but a single request will constitute of exactly one user (similar case for receive request).
- 10) a single user can create multiple events but a single event will be associated with exactly one user.
- 11) a single user (optionally) join event/ multiple events, whereas a single event can be associated with multiple users (minimum 1).
- 12) a single user can create multiple posts; a single post is associated with exactly one user.
- 13) a single user can reply to multiple posts; a single post can be replied by multiple users.
- 14) an administrator can examine multiple groups whereas a single group will be examined by exactly one administrator (assuming 1 admin per group distribution).
- 15) a group can contain multiple posts whereas a single post will be associated with exactly one group.
- 16) a user can have multiple friends and multiple users can have a single friend
- 17) multiple senders can send invitation to a single receiver and vice versa.

18) a single user can do multiple searches similarly a single couch can be associated with multiple searches.



## ER Schema:

User(userID, email, city, birthdate, country, gender, role  
profileID)

Event(eventID, startDate, endDate, location, description,  
startTime, endTime, userID)

EventInvitation(eventID, senderID, receiverID)

Post(postID, groupID, material, userID)

Groups(groupID, type, category, description, adminID)

joinGroup(groupID, userID)

Administrator(adminID, fullName)

Profile(profileID, interests, music, movies, pet allowed,  
fullName, books)

reportGroup(reportID, content, groupID, userID)

search(searchID, startPeriod, endPeriod, city, country,  
couchID, userID)

CouchRequest(crequestID, timeArrival, timeDeparture,  
dayDeparture, dayArrival, noSurfers, status, couchID,  
shortDesc, sendUserID, receiveUserID)

Couch(couchID, available, userID, startTime, endTime,  
startDay, endDay, cityID)

couchReviews(reviewID, testimonial, rating, userID,  
couchID)

FriendRequest(requestID, friendshipType, dateMet,  
surfExperience, requestSenderID, requestreceiverID)

replyPost (replyID, material, userID, postID)

City(cityID, cityName, countryID)

Country(countryID, countryName)

Reply(replyID, material)

Note: User(profileID) is alternative primary key