University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: 2/5/21

Group Number: 3

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Project Overview

The domain we're going to model is hackathons. Specifically, we will be modelling all the data related to hackathons hosted by a specific organization, NWMinus.

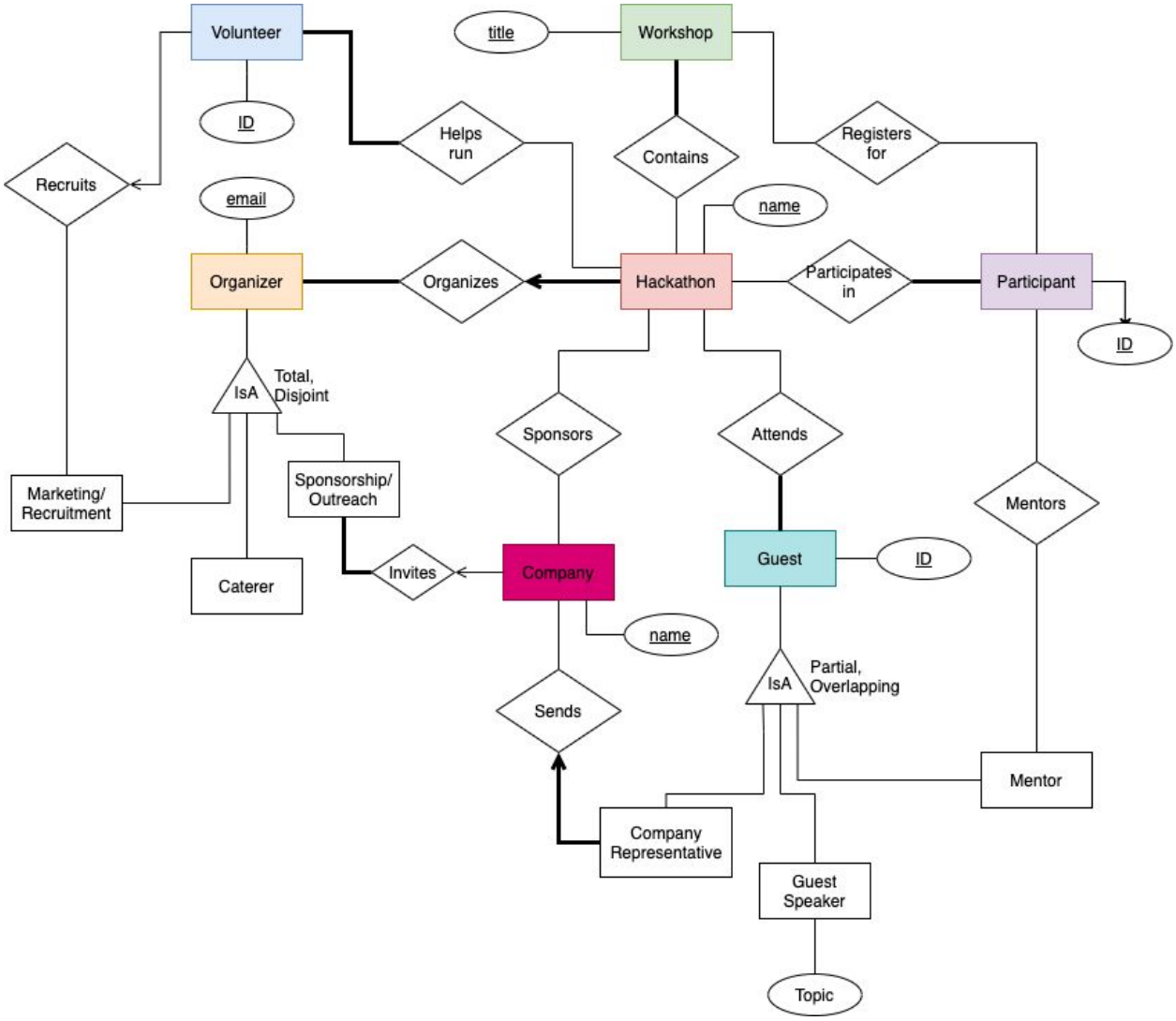
NWMinus hosts several types of hackathons, and we will focus on the organizational aspects of these events. This includes managing the participants, guests, companies (potential sponsors), organizers, volunteers, and workshops of each type of hackathon it hosts. Guests include mentors, speakers, and sponsor representatives. Sponsor representatives are sent out by sponsors to promote their company. Organizers include the employees of NWMinus who are responsible for a specific hackathon, and they each have different roles, including outreach organizers who invite potential sponsors, and marketing organizers who recruit volunteers.

Our database application will help NWMinus organize and keep track of the different components of hackathon organization, as described above. With this information centralized, the organizers will be able to plan more efficiently for various hackathon events. The database will also allow participants to easily register for workshops and connect with mentors prior to the event.

There are two types of users in our system: participants and organizers. Participants can browse past and upcoming hackathon events, register for hackathons and event workshops, as well as browse the companies that will be present at each event. Participants can access the list of workshops, mentors, and guests. Organizers can access, create, modify, and delete any information in the database.

We expect to use Java/JDBC and the Oracle database system provided by the computer science department, and Java Swing for the GUI.

ER Diagram


Volunteer
title
Workshop
ID
Helps run
Contains
Registers for
Recruits
email
name
Organizer
Organizes
Hackathon
Participates in
Participant
ID
IsA
Total, Disjoint
Sponsors
Attends
Marketing/ Recruitment
Sponsorship/ Outreach
Mentors
Caterer
Invites
Company
Guest
ID
name
IsA
Partial, Overlapping
Sends
Mentor
Company Representative
Guest Speaker
Topic

Below is the full list of all of our entities' attributes (primary key underlined):

1. **Volunteer**
   - ID
   - Name
   - Role
   - Email
   - Phone Number

2. **Workshop**
   - Title
   - Time
   - Room Number

3. **Organizer**
   - Email
   - Name
   - Phone Number

4. **Hackathon**
   - Name
   - Date
   - Time
   - Location

5. **Participant**
   - ID
   - Name
   - Email
   - School

6. **Company**
   - Name
   - Phone Number
   - Email

7. **Guest**
   - ID
   - Name