PROJECT PROPOSAL

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Inspiration: Link 1- https://www.stemwomen.org.au/

INTRODUCTION

We intend to create a database for women in STEM that are experts in their respective field and can act as mentors for people looking for guidance. As it is known, there is a lack of representation of women in STEM fields. This representation grows smaller when taking ethnicity, culture, neurodivergence, and more into account. Through this database, a user can search for, read about and potentially connect with inspiring women and nonbinary experts who fall into these categories making strides in a particular area in STEM. A user can create an account to save their followed/admired mentors for easy access to their resources. To find new people, a user can user a wide variety of filters including field of expertise, organization involvement, ethnicity, country, degree, name etc.

DATABASE DESCRIPTION

The database contains information on the user / mentee. Each mentee has a unique user-ID, first and last name, age, contact email, country they belong to, their LinkedIn profile link and a message for their future mentors.

The database holds information on the mentors registered including their name, the current and/or past organization they are affiliated with, their job title, age, gender identity (whether they identify as a woman or non binary), LinkedIn and a link to their personal website. Each mentor has a unique mentor identification number. The mentor also gives a brief summary of their experience and expertise area. The mentee also has the option to search for their mentors based on criterias like country of the mentor, their ethnicity, the degree/degrees they have or the STEM field they are experts in.

The database allows a user to have upto 3 mentors at one time. A mentor can mentor up to 10 mentees at any given point. We also track the duration of the mentorship (3 months, 6 months, 1 year) depending on the needs of the mentee and record the start and end date for the mentorships.

USER INTERACTION

The database is accessed online through a webpage. The home screen of this webpage allows users to log in to their existing account or register to create a new account. Once logged in, the user has an option to search for new mentors or edit their profile. When searching for mentors, users can filter their search criteria by ethnicity, degree, country, age, STEM field, and/or organization. Once the desired mentor is found, users can submit a request to be mentored for the desired period. Upon approval of mentorship, the mentor and mentee can connect through preferred method of communication. At the end of the mentorship, the user has an option of removing their profile or connecting with new mentors.

WHY DOES THIS INTEREST US?

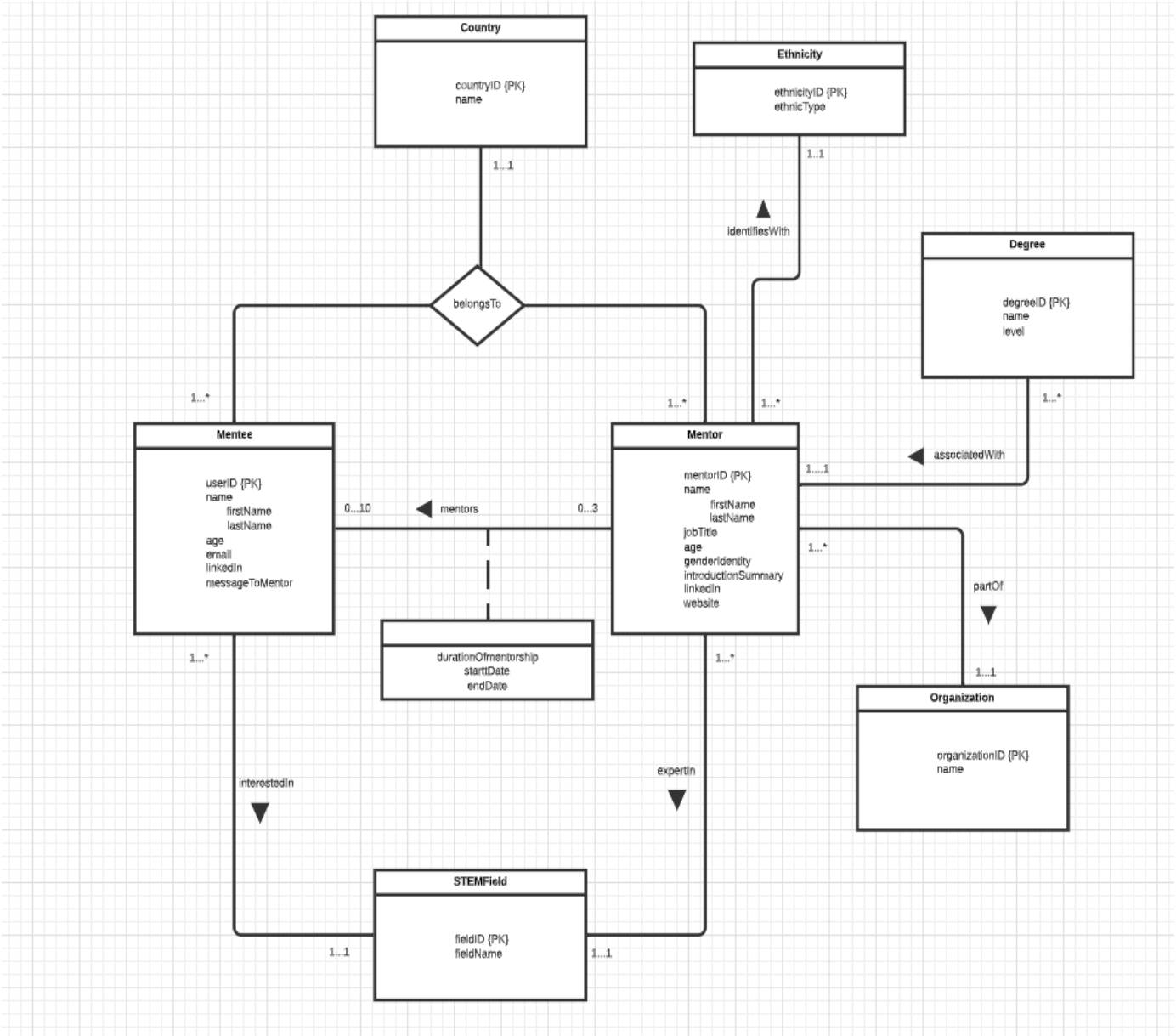
Representation matters. This is a driving force for why we desire to create this particular database. As women in STEM, we know firsthand how influential finding someone who identifies with you and your background can be as you seek to develop your career plan. Through resources like this, other women can find inspiration and mentorship from those who have faced similar obstacles and overcame these barriers and achieved success. Our database would provide a platform to make that seamless connect and get the right mentorship for the user.

DATABASE LANGUAGE

SOFTWARE : MYSQL Workbench
LANGUAGE :

- **Framework for WebPage -** Bootstrap, HTML, CSS
- SQL to manage database

UML DIAGRAM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Ethnicity
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Degree
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name
level
belongsTo
1...*
1...*
1...*
1...*
Mentee
userID {PK}
name
firstName
lastName
age
email
linkedIn
messageToMentor
Mentor
mentorID {PK}
name
firstName
lastName
jobTitle
age
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linkedIn
website
associatedWith
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0...3
durationOfmentorship
starttDate
endDate
1...*
1...*
1...*
partOf
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Organization
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name
interestedIn
expertIn
STEMField
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fieldName
1...1
1...1

ACTIVITY DIAGRAM