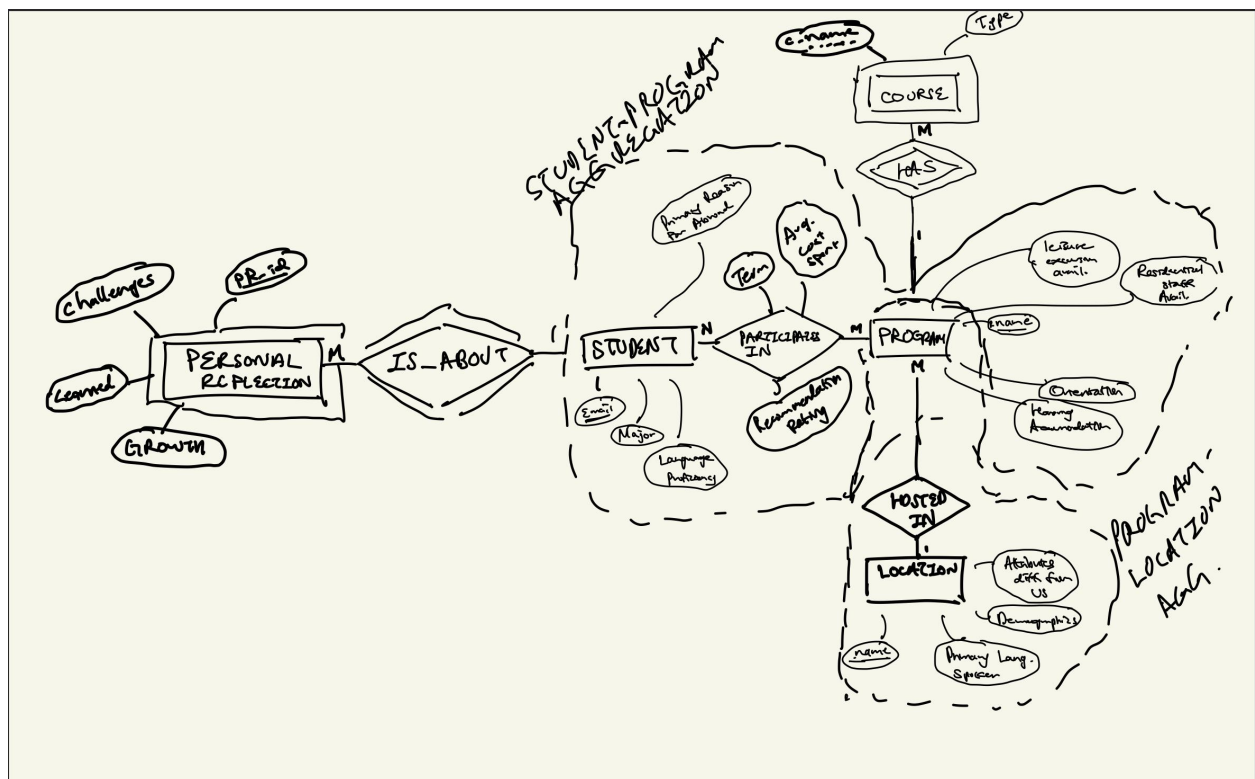


### Revised Project Idea:

1. Authentication – SSO with Amherst email address
2. Functionalities – Students will first be able to filter by factors that are generally considered as priorities. Students will then be able to expand their view to check other relevant factors
  - Reflections – will be added into the “expandable” portion of the view. If time permits, we will consider implementing keyword search on the free response-type reflections.
3. Clear Idea on the deliverable – a database of Qualtrics responses whereby students have limited access to the responses and the office has full access.

### Refined ER Schema:



### Relational Schema

Location(l\_name, primary\_language\_spoken, demographics, attributes\_diff\_from\_US)

Program(p\_name, leisure\_availability, res\_staff\_availability, orientation, housing accommodation, l\_name)

Hosted\_in(p\_name, l\_name)

Has(c\_name, p\_name, l\_name, type)

Student(email, major, language\_proficiency, primary\_reason\_abroad)

Participates\_in(email, p\_name, l\_name, term, avg\_cost\_spent, recommendation\_rating)

Is\_about(pr\_id, email, p\_name, l\_name, challenges, learned, growth)

## **Software Installation & Configuration**

- Python 3.9.16
- PostgreSQL 13.11
- Flask 3.0.0
- Psycpg2-binary 2.9.9 (interface between python and PostgreSQL)

## **Role Assignments**

Jun Ho

- Writing SQL queries to create schemas, store data, and create appropriate views

Jordy

- tying Flask to the project database to retrieve and store records
- processing Qualtrics Excel sheets into storable data

Hasham

-frontend (HTML, CSS, React) + backend (flask, DB)

Regina

- React frontend

## **Open Questions**

- How to use Flask to query our project database
- Using React to interface with Flask and create a workable frontend
- What searchability levels are required for the amount of data we have?
- What open source technologies are available to implement keyword search?
- How can we create separate permissions for Admin vs general users?