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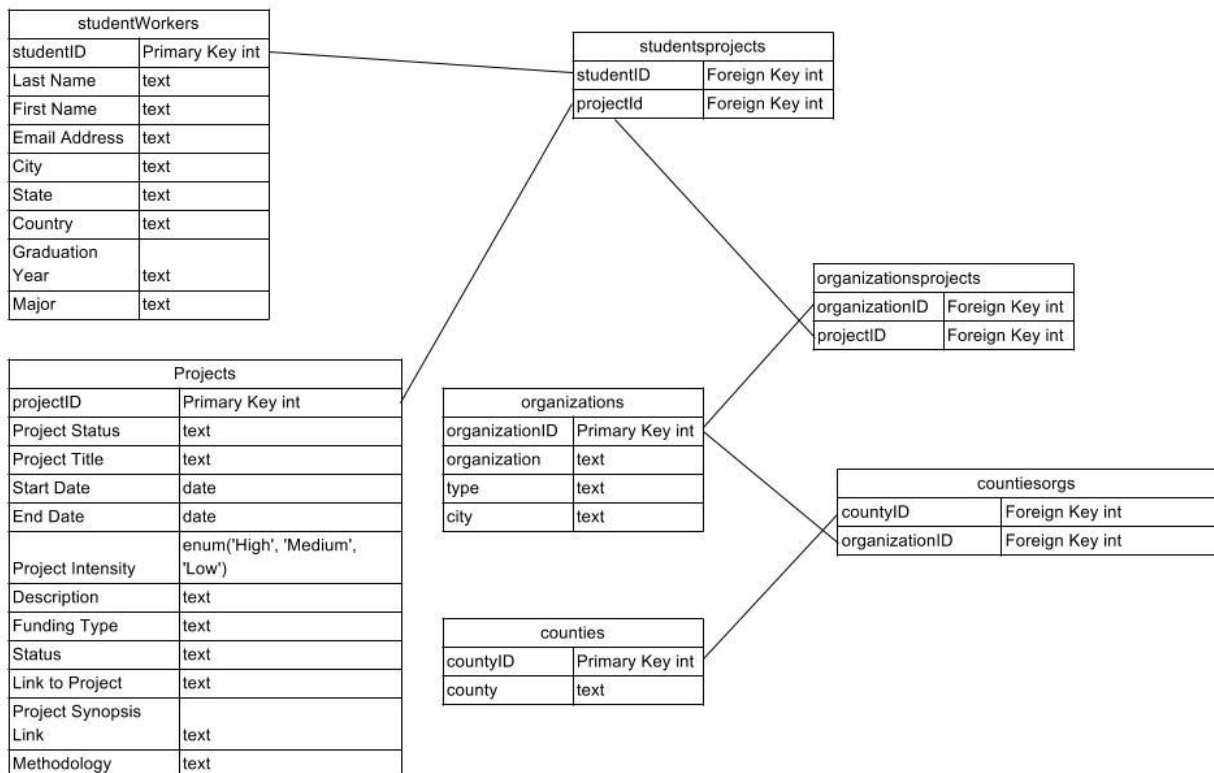
Description(goal)

We both worked at the CST, this semester Andy's project was to implement a database to store all information regarding the community projects, students' information, faculty information, etc. The goal of this project is to build a easy to use web interface and a database that suits the needs of CST outlined above.

Tools we used:

HTML
CSS
mariaDB
AngularJS
Javascript

Data Model:



Goals Achieved:

We created a database that mostly suited the CST needs. All tables are normalized with the correct structure and information required. A user interface is mostly completed although a few touches is needed to make it more aesthetically pleasing. User could currently query the database by specific keyword under a specific category. User also has the ability to view/delete a specific record. For student workers, when you click on a specific student, it will show you which projects the student worked on. For the projects, it will show which students worked on this project. And for organizations, it shows which projects the organization worked on, and also which counties the organization serves.

Goals Not Achieved

We wanted that the user can be able to search a project by keywords, and get information other information like, which students work on “these” kind of projects, which organizations work on “these” kind of projects. From the beginning when we got the data we knew it was going to be tough, since the all of the keywords were put in one cell, and there were many of them per projects, and there were not separated by anything. So we said that if we had time we would come back to this one, and we didn’t. Adding to the database does not work since the api endpoints does not currently do anything. Update studentWorkers table work fine but updating organizations and projects table does not work well.

Potential for future work

Our hope is that the database is good enough that it can be useful for CST, although it needs to be since that’s was Andy main goal. One of the main goals we fell short was the ability to add to the database. We have the interface for it but it’s currently not doing anything. We feel like that with some extra functionalities, this is a very good way for CST to handle their projects. We foresee some extra functionalities such as the ability to create charts based on the locations of organizations that CST work with. We expect Google charts will be suitable for this functionality. Moreover, we would like to improve the look of our website. We foresee this web app to be used in mobile phones whenever CST workers are out in the field. Therefore, our formatting of the web page will need to be able accommodate the small mobile phones screen.

Overall reaction

Overall, I think we are positive about our work and believed the project was off to a good start to something better. A lot of our goals were met and despite some goals felt short, it was only due to time constraint as Andy had to attend his sister’s wedding in India. We are happy to have chosen this project as our final project because it gives us more experience working with web development tools. However, we are concerned with the longevity of the project as CST will require a student that has adequate knowledge to maintain the database. Despite of that, we were trying to aim for a system that requires little or no maintenance.