Team members name: Arman Askari Zadeh, Pierre Saladino

Team: 30

Project title: Manufacturing Tool Services tracker

URL:http://flip3.engr.oregonstate.edu:9810/

Feedback by the peer reviewers(**Chris Nelson, Chunghee Kim, Alexander Molotkov)**

1. Does the UI utilize a SELECT for every table in the schema?

Chris Nelson: Looks like there is going to be a SELECT for all tables. But per the ERD, there are some tables that are missing in the UI, unless these tables are planned to be built in one of the existing navbar pages

CK: No, not as of right now. But it looks like it will have to.

Alexander Molotkov: No, it doesn't look like it

2. Does at least one SELECT utilize a search/filter with a dynamically populated list of properties?

Chris Nelson: None explicitly shown, but it could be inferred a search is used for all 3 tables, manage, tools and employees

CK: No, not as of right now. I don't think there will be a search/filter type of feature.
It doesn't look like it

Alexander Molotkov: It doesn't look like it

3. Does the UI implement an INSERT for every table in the schema?

Chris Nelson: Tools and Employees indicate an ADD, but no indication for the other tables.

CK: No, not as of right now, but I believe there will be in order to populate the Employee and Tools tables.

Alexander Molotkov: No

4. Does each INSERT also add the corresponding FK attributes, including at least one M:M relationship?

Chris Nelson: No indication of that in the UI just yet

CK: The insert will have to implement a FK especially for Employees and Employee_Certifications. It will need to implement a FK
Alexander Molotkov: It will need to implement a FK

5. Is there at least one DELETE and does at least one DELETE remove things from a M:M relationship?

Chris Nelson: There doesn't seem to be a employees_tools table in the UI to indicate this. I think that this table may live in one of the nav bar tabs, but has just not been implemented.

CK: No, not as of right now, but I'm sure there will have to be one in order to remove an Employee or a Tool.

Alexander Molotkov: no

6. Is there at least one UPDATE for any one entity?

Chris Nelson:no indication of an UPDATE functionality yet.

CK: No, not as of right now. I can see an update needed for an Employee's 'email' field or possibly their certificate

Alexander Molotkov: no

7. Is at least one relationship NULLable?

Chris Nelson:I believe the employee_Certifications

CK: It seems as if there is no relationship that is NULLable. It seems that an Employee is necessary for the all the other tables.

Alexander Molotkov: No it doesn't look like it
8. Do you have any other suggestions for the team to help with their HTML UI?

Chris Nelson: Nice and clean, make sure its explicite that you're going to be showing all tables, and able to update.

CK: No, not as of right now. The project doesn't seem to complicated right now and hopefully it will be a straightforward implementation. Good luck!

Alexander Molotkov: Look over the project requirements and make sure you guys are fulfilling them

Actions based on the feedback

List briefly the actions that you chose to take based on the above feedback. If you decided not to act on a specific suggestion, you need to describe in detail your reasoning.

- Added the following for manage certifications
    - Employee drop down menu
    - Certification radio list
    - Submit button
    - Certification list table with delete and refresh buttons
- Added for Tool page
    - Submit form for tool id and group
    - Table with delete functions for tools
- Added for employee page
    - Form for new employee with first name, last name and email inputs
    - Table with current employees
    - Delete and update buttons

Upgrades to the Draft version

Overview:

A manufacturing tool service tracker that logs the history of who serviced the tool last. When many employees use the same tool, it is hard to keep track of what has been done. The service tool tracker would track what each employee has done before. The database that would be designed in this project would help to keep track of the work that has been done and what needs to be done in the future. To construct this database we need to have information about the employees and the tools. Certifications need to be tracked so that the correct personnel is used for the job. This prevents errors from someone working on a tool aspect who is not qualified. A service tracker would be suitable for large manufacturing companies that are constantly adding more tools.

Database Benefits

- Keeping employees accountable
- Keeping track of work
- Finding the errors that have happened and the responsible person

- Helping with the maintenance of the tools
- Scalability of adding more tools
- Minimizes errors from unqualified personnel

People Responsibility

Both team members will be working on the code and sharing the same responsibilities.

Database Outline

Entities

- Employees: people that will use the tools
    - userID (Primary Key)
    - firstName
    - lastName
    - Email
        - 1:1 between Employee_Types
        - M:M between tools
        - M:M between Employee_Certifications

- EmployeeTypes: specifies the position of each employee
    - Type (memberOf/Manager)
        - 1:1 between Employees

- Tools: machines that people will use
    - toolID
    - toolGroup
        - 0:M between Employees

- EmployeeCertifications: specifies the level of each employee
    - certID
    - certTitle
        - M:M between Employees

Employees	
userID	INT, AUTO INCREMENT, UNIQUE, NOT NULL, PRIMARY KEY

firstName	VARCHAR, NOT NULL
lastName	VARCHAR, NOT NULL
email	VARCHAR, NOT NULL

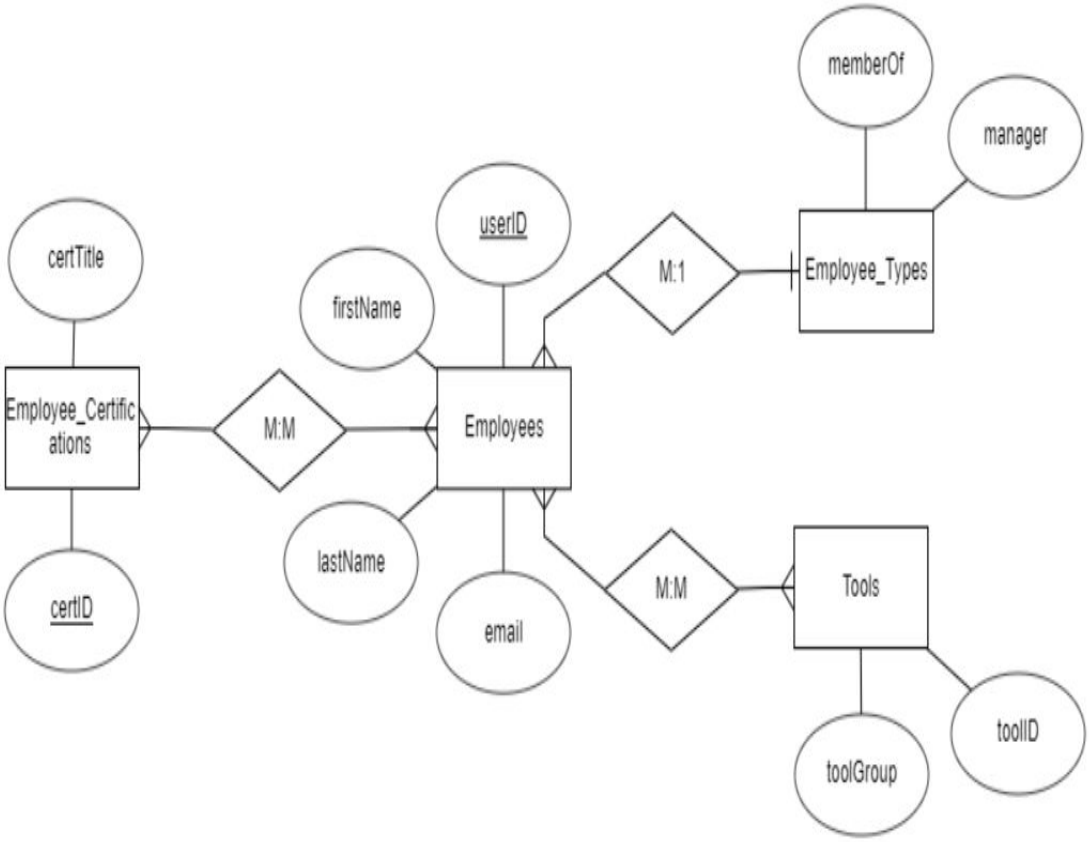
Employee_Types	
type	INT, NOT NULL

Tools	
Tool ID	INT, NOT NULL, UNIQUE
ToolGroup	VARCHAR, NOT NULL

Employee_Certifications	
certID	INT, NOT NULL, UNIQUE, FOREIGN KEY
certTitle	VARCHAR, NOT NULL

userID_Certs	
userID	INT, NOT NULL, UNIQUE, FOREIGN KEY
certID	INT, NOT NULL, UNIQUE, FOREIGN KEY

C) Entity-Relationship Diagram:


memberOf
manager
userID
certTitle
M:1
Employee_Types
firstName
Employee_Certific
ations
M:M
Employees
lastName
M:M
Tools
certID
email
toolID
toolGroup

D) Schema:

This schema should follow the database outline and the ER diagram exactly. It will be graded in the Final Version for this Step on the extent with which it matches the database outline, with an emphasis on whether the relationships, tables, and keys are set up correctly. You may use the tools listed on Tools for this course, or draw by hand and upload a scanned legible copy. Please stick to the notation from Week 3.

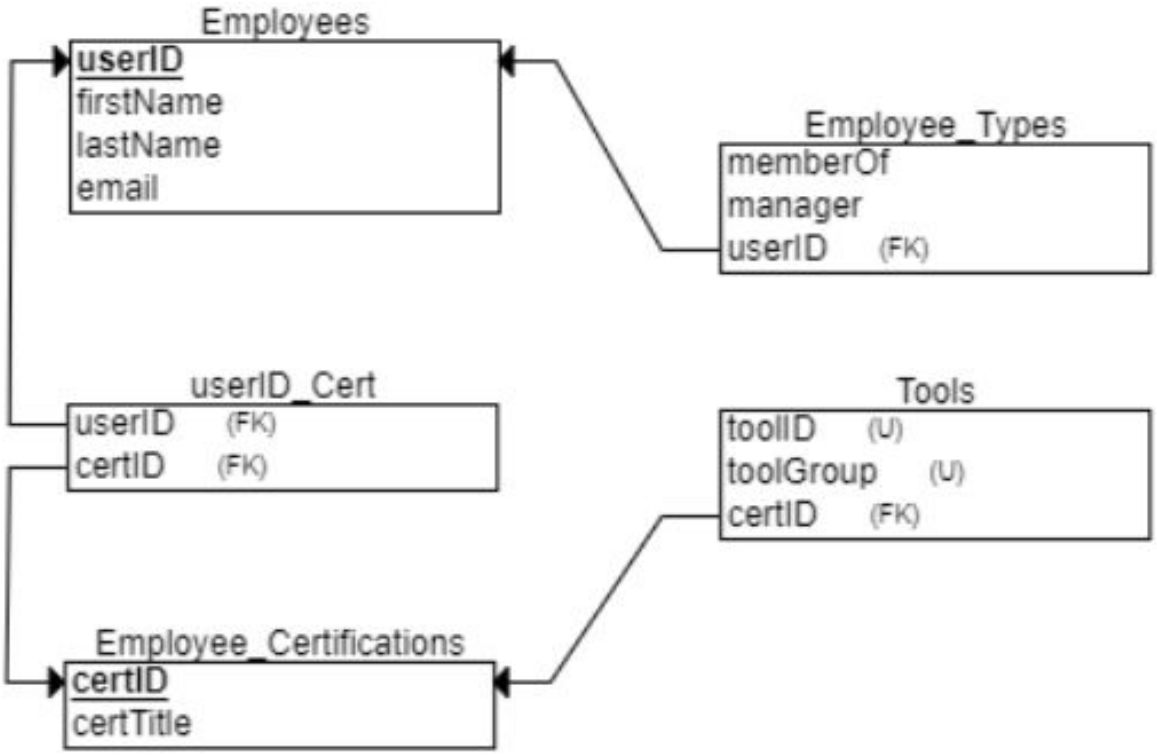
Employees(
userID,
firstName,
lastName,
email
)

Employee_Types(
memberOf,
manager
)

Tools(
toolID,
toolGroup
)

Employee_Certifications(
certID,
certTitle
)

userID_Certs
userID,
certID
)


Employees
userID
firstName
lastName
email
Employee_Types
memberOf
manager
userID (FK)
userID_Cert
userID (FK)
certID (FK)
Tools
toolID (U)
toolGroup (U)
certID (FK)
Employee_Certifications
certID
certTitle

Team evaluation form

1 = Strongly Disagree 2 = Disagree 3 = Agree 4 = Strongly Agree

Group number	30	
Name of Group TEAM Members:	Arman Askari Zadeh, Pierre Saladino	
SCALE AND COMMENTS	RATING	ADDITIONAL COMMENTS
HoW Prepared was your team? Research, reading, and assignment complete	4	
How responsive & COMMUNICATIVE were you both as a team? Responded to requests and assignment modifications needed. Initiated and responded appropriately via email, Slack etc.	4	
Did both group members Participate equally Contributed best academic ability	4	
DID YOU BOTH FOLLOW THE initial team CONTRact? Were both team members both positive and productive?	4	are

Are there any suggestions for improvement for your team and what are your goals moving forward?

(Better communication, follow the contract better, modify the initial team contract, more contribution, etc?)?