

## Project 2 – Project Online Apparel Return Induced Trash

**Project 2 will be divided into three phases:**

Phase 1: Domain Selection and presentation (**5% of project 2 grade**)

Phase 2: Requirements, EER, Schema, database creation (**5% of project 2 grade**)

Phase 3: Com Comprehensive presentation (At most 20 slides + 1 cover page + 1 references) of each group's complete Project Trash. (90% of project 2 grade)

### **Phase 1: Domain Selection and presentation (At most 10 slides + 1 cover slide + 1 slide for references)**

- What is the name of your company?
- Name at least one real life company that is or could be your competitor and why? (can be more)
- Name at least one real life company with whom you could collaborate and how? (can be more)
- What is the geographical area where your company operates?
- What is the domain in which your company operates?
- Why did you choose this domain?
- What kinds of services does your company offer?
- What kind of impact will your company have **on problems caused by online apparel returns**?
- Is there any other area that your company will affect positively?
- Support your answers with some statistics from some reliable sources. Include your references
- Share at least one sticky statistics slide (Slide 5 in 2020 Spring\_Project\_2.ppt). Cite your sources. We will compile all the sticky statistics slides from both sections together.

**At most 9 minutes will be given to each team.**

Each member must speak and take part in the team presentation. Out of the 9 minutes allocated to each team, 4 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 9 minutes.

### **Phase 2: Requirements, EER, Schema, database creation (At most 10 slides + 1 cover slide + 1 slide for references)**

- Write requirements for a mini world from your trash application database.
- Describe entities, (their attributes), relationships, any special requirements as needed
- Create a conceptual schema database design using the ER/EER model
- Convert it to a **relational (tabular) schema** using the rules for ER/EER-to-relational (tabular) mapping
- Must include at least 3 entity types (with at least 2 attributes each).
- Try to include **at least 3 relationships** including **at least one 1:1 relationship, at least one 1: N relationship, at least one M: N relationship**.
- Try to include **at least one weak entity type**.
- Create realistic looking data for your database. This data will be required in Phase three and extremely critical for the success of your Project Trash Phase III
- Prepare a 5-6 minutes (but no longer than 6 minutes) video presentation of your work and share it with your TA so that it can be uploaded on the class website.

This project phase has the following deliverables: A PowerPoint presentation (including requirements/mini world description, ER/EER, Schema), proof of start of work on realistic data, and a short video presenting your work.

**At most 9 minutes will be given to each team.**

Each member must speak and take part in the team presentation. Out of the 9 minutes allocated to each team, 4 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 9 minutes.

**Phase 3: Comprehensive presentation (At most 20 slides + 1 cover page + 1 references) of each group's complete Project Trash.**

**This will include the following:**

1. A presentation that includes:
  - **Cover page:** Course name, University name, Team members' names, your company name, Instructor and both TA's names
  - Brief explanation for domain choice
  - Brief explanation- How does your company alleviate the **online apparel returns induced** trash problem
  - At least one sticky statistics slide (Slide 5 in 2020 Spring\_Project\_2.ppt). Cite your sources. (We will compile all the sticky statistics slides from both sections together.)
  - Requirements/Design/Implementation:
    - Textual description of your database requirements
    - EER (made with a tool)
    - Schema (made with a tool)
    - Database/Tables/Queries/Views/Web Interface
  - Brief view of scripts to create Database/Tables/Queries/Views/Web Interface
  - Brief view of Data files with realistic data contents
  - Scripts to populate your database.
  - Brief explanation- How does the database and interface fulfill your business requirements
  - Any influence the domain research has had on your lifestyle.
2. Video - will highlight your ability to complete a database project from start to finish.
  - At most 15 minutes long video on your complete project – preferred length 10 minutes.
  - Includes
    - Course name, University name, Team members, your company name
    - Rationale/explanation for selecting the mini domain
    - Course name, University name, Team members' names
    - Explanation for domain choice
    - Brief explanation- How does your company alleviate the world trash problem
    - Textual description of your database requirements
    - EER (made with a tool)
    - Schema (made with a tool)
    - Database/Tables/Queries/Views/Web Interface
    - Brief view of scripts to create Database/Tables/Queries/Views/Web Interface
    - Brief view of Data files with realistic contents
    - Brief view of scripts to populate your database
    - Brief explanation- How does the database and interface fulfill your business requirements
    - Any influence the trash domain research and work has had on your lifestyle
3. Project files – zipped and uploaded in canvas. **50%-point deduction if ANY of the following project file components are missing in your zip file.**
  - Presentation slides.
  - Scripts to create Database/Tables/Queries/Views/Web Interface.
  - Data files with realistic contents.
  - Scripts to populate your database.
  - Link for your video file or the video itself.
  - A written report includes:
    - Any influence the trash domain research and work has had on your lifestyle.
    - Step by step explanation of how to upload/execute your project.

- List of all technologies used for each phase (OS, EER, Schema tools, Database, Scripting Language etc.)
- List of references (tools, tutorials, references, web sites, books etc.)

4. Additional details

- Each table must have at least 4 records
- Each group's solution must include **3 query results based directly on the tables** (at least 1 select, 1 update, 1 delete) and retrieved via the web interface (on the same web page or different pages)
- Each solution must include at least 1 view and at least **2 query results based on the view(s)**. The results must be displayed using the web interface (on the same web page or different pages)

**At most 20 minutes will be given to each team.**

Each member must speak and take part in the team presentation. Out of the 20 minutes allocated to each team, 5 minutes will be reserved for question and answer sessions. Each team is responsible for their own time keeping. Presentation/Team time will end at the allocated 20 minutes.

**All teams and team members need to be present for all the presentations to receive grades.**

**Project 2 Phase 3 submission deadline: May 3, 2020, Midnight. You will be presenting your work on May 4 or 6.**