

Project Model Draft Milestone (worth: up to 17.5 points)

NOTE: you should **not** be mentioning tables or relations at this point **at all**, nor should you be mentioning primary or foreign keys. Those are appropriate in the **next** milestone, the Project **Design** Draft Milestone!

Project Model Draft milestone (up to 17.5 points)

Due:

by **11:59 pm** on **Wednesday, October 23**

How to submit:

Submit the files noted below to Canvas.

What to submit:

(Submit a `.zip` file containing the following files instead of submitting the individual files.)

Submit the latest, current version of your `325scenario.pdf`.

ALSO: Create a PDF file named `325model.pdf` containing the following:

- include all your group member names
- CS 325 - Fall 2024
- the date the model was last modified
- your current-as-of-this-point Entity-Relationship Diagram (ERD) for your project, depicting your database model
- make sure this includes the lists of attributes for each entity class, in which multi-valued attributes are indicated, as discussed in lecture
- remember, entity classes are NOT tables or relations. Do NOT refer to them as such, nor include information about tables or relations in the model. The project is NOT at the table/relation stage yet!
 - Likewise, since these are not tables or relations, there are no primary keys or foreign keys yet, either. These are NOT part of the E-R model stage.
- Make sure that your completed model meets the model aspects of the **Project minimum structural requirements** given below.

ALSO: Remember those initial business rules from the Project Scenario Selection milestone?

NOW make a **new, separate file**, named `325biz-rules.pdf`, with the latest/current version of your business rules, that includes:

- include all your group member names
- CS 325 - Fall 2024
- the date the business rules were last modified
- a **bulleted** list of your business rules thus far
- (Hint: you **SHOULD** find yourself adding to your initial set of business rules as part of the modeling process!)

Project minimum structural requirements

Because an important topic in this course is database modeling and design, your project is required to meet certain criteria to help ensure that it is at least somewhat interesting in model and structural senses. **Final projects that do not meet these minimum criteria will be severely penalized.**

The **database model** for your database must include:

- at least 10 **distinct, significant** entity classes
 - a (non-union)-superclass entity along with all of its subclass entities count as **one** combined entity toward the ten-entity-class minimum, unless some of the subtypes have relationships in which only that subtype participates. Be careful, and **ask me** if you have concerns about this.
- at least 8 **distinct, significant** relationship classes, at least two which are **1:N** and at least two which are **M:N**
- at least two **multi-valued** attribute

And, the corresponding database design/schema must eventually correctly implement all of the above.

Checklist: files to submit for this milestone:

- △ 325model.pdf
- △ 325biz-rules.pdf
- △ 325scenario.pdf (latest/current version)