

CSC-362-a-FA-2021

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Term Project Summary

TERM PROJECT PHASE 1: DESIGN

Note that the design documents from phase 1 will be graded, but the final design document will be weighted much more heavily than the parts of the design leading up to it. Also note that the final design document is an external document—something that should be presentable to a client. It should include some explanations of why you chose the design you did. These can be technical explanations.

[Team Contract](#)

The final project will be done in teams of 2-3. In this contract, you will lay out a structure for your joint work, including meeting schedule, and channels of communication. Uploading the completed version of this file to Moodle is optional, but you must include it in your git repository.

Design 0 — Prologue

You will receive a (probably long, rambling) email from your client. Read it carefully, as your client's needs are the first thing you need to understand when building your database.

[Design 1 -- Mission and Objectives](#)

Write a mission statement and a statement of objectives that the database will support. The mission statement should be general, describing the overarching purpose of the database. The objectives, by contrast, should be specific tasks that require information to be completed. Contextualize these objectives by noting the broader client need that the objectives support.

[Design 2 -- Tables, Fields, and Primary Keys](#)

In no more than two pages, describe the various data tables, and their fields. Provide explanations of what kind of entity each table's entries correspond to, and what aspects of the entity the fields describe.

[Design 3 -- Table Relationships](#)

In no more than two pages, describe the relationships that exist among the tables in your database, and how you will represent them with foreign keys and linking tables.

[Design 4 -- Business Rules](#)

In no more than two pages, describe the constraints that your client wants/needs imposed on the data in the database to make it most useful.

Design 5 -- Final Design with Views, UI Flow

In no more than two pages, describe the views that will support the database user(s). In addition, lay out the various data entry and information retrieval screens that your application will have.

The deliverable for this part is an external, client-facing document incorporating all of the previous design deliverables, as well as the Views, and some sketches and description of the user interface i.e., web pages for data entry and reports.

TERM PROJECT PHASE 2: IMPLEMENTATION

Implementation 1 -- Coding Plan

This is an internal document, and need not be presentable to a client. I only need to know that you have given some thought to the code that needs to be written, and where and how you will get started. You should prioritize the SQL scripts and associated PHP pages in such a way that you achieve a useful "minimum viable product" as soon as possible. I recommend asking your client what is most important to them, and prioritizing accordingly.

[Implementation 2 -- SQL Scripts](#)

You should have scripts written for all the routine data entry and information retrieval tasks, including, but not limited to:

- Data entry commands
- Information retrieval
- Checking business rules
- ...

[Implementation 3 -- First PHP pages](#)

Your coding plan, and consultation with your client determines which of these should be written first.

Implementation 4 -- More PHP pages

Your coding plan, and consultation with your client determines which of these should be written first. You should also prioritize anything that was missing from the stage of the coding plan.

Implementation 5 -- Final Integration and Project Presentation to Client

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CSC 362 a FA 2021

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Moodle Help
Request a Metacourse
Moodle.org (3.10 Documentation)
HUM music

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CentreNet
Centre Homepage
Library
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Data retention summary

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