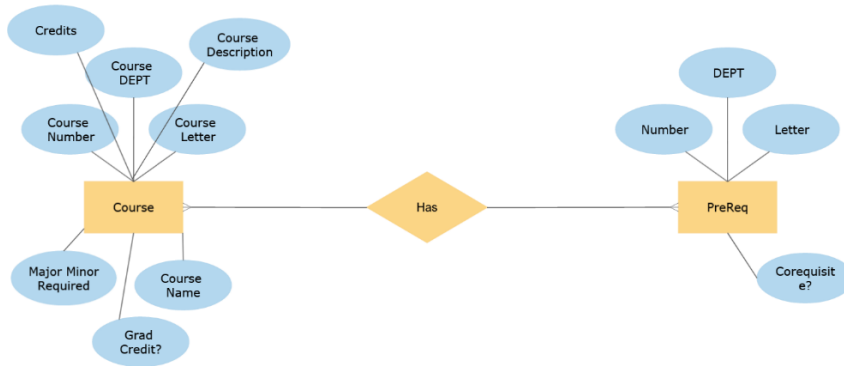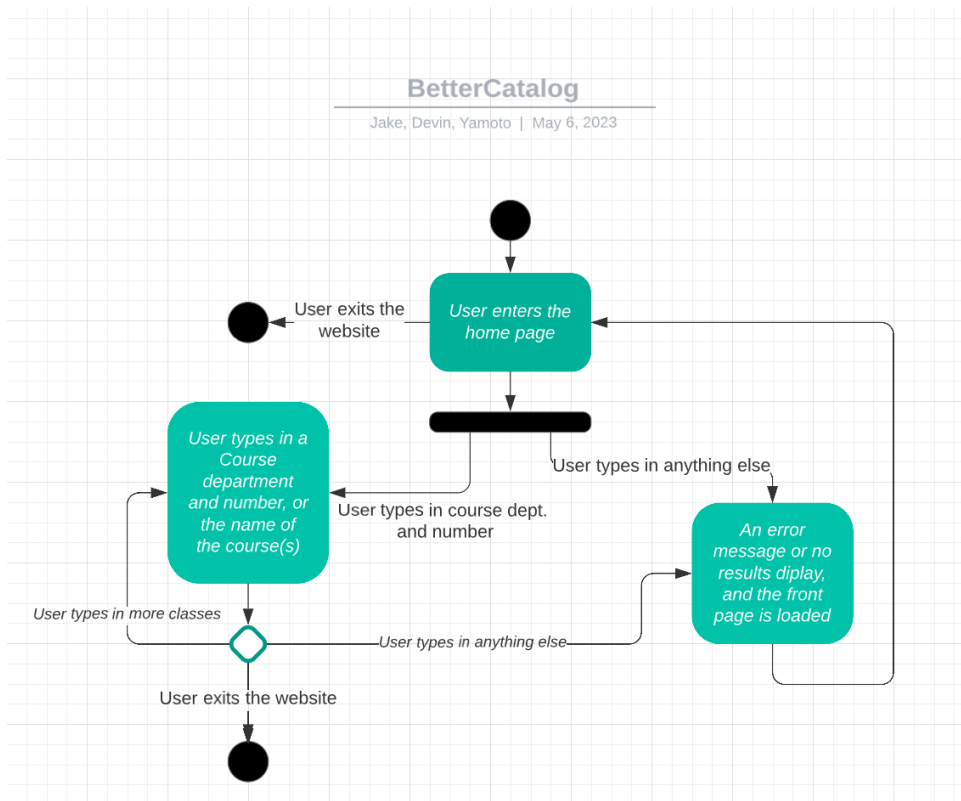Jake, Devin, Yamato

CPSC 362-13 BetterCatalog

Database Schema:

Entity Relationship Diagram - Course Catalog

Activity Diagram:

Use Case Diagram:

Use Case: See more than one level of class prerequisites at a time.

If I am looking at a class, then I should be able to see all of the relevant information about a class such as the course description, name, and number of units. I should also be able to see all of the classes' prerequisites, as well as the prerequisites for those classes listed under in a nested or graphical form.

Use Case: See multiple courses class description at once.

When I search for a class, I should be able to see details of multiple classes at the same time, and remove the classes from the search individually without having to retype in all of the classes.

Use Case: Sending/storing links.

When I search for a class using BetterCatalog, I should be able to copy the website link, send it to someone else or bookmark it, and when the link is opened again the same content is displayed.

CRC Cards:

Class: SQLStatementGenerator	
Parses through the json data that was webscraped, and formats it into SQL queries	
Responsibility:	Collaborator:
Takes in jsoncoursedata	
Outputs to sql_statements.txt the sql statements based on the course data	MySQL Database

Class: SQLprereqGenerator	
Parses through the same json data as SQLStatementGenerator, but only identifies the prerequisites (must be inputted after the class data)	
Responsibility:	Collaborator:
Takes in jsoncoursedata	

Outputs to sql_prereq_statements.txt the sql statements to relate classes to each other	MySQL Database

Class: db_query_utils	
Responsibility:	Collaborator:
Connect to the database	db_utils
Get all courses	
Remove duplicate courses (disabled)	
Get multiple levels of course prerequisites recursively	db_parser_utils

Class: api_fetch_prereqs	
Responsibility:	Collaborator:
Find prerequisites of a specified course	db_query_utils
Format the return to json	