

San José State University
Department of Computer Engineering

CMPE 280

Section 2

Web UI Design and Development

Spring 2020

Instructor: Ron Mak

Assignment #5

Assigned: Tuesday, March 17

Due: Friday, March 27 at 11:59 pm

Team assignment, 100 points max

MongoDB

Add a MongoDB database to your project as the third tier.

- MongoDB documentation: <https://docs.mongodb.com/>
- MongoDB Node.js driver: <https://mongodb.github.io/node-mongodb-native/>

You must use Express and either Monk or Mongoose to talk to the database:

- Monk: <https://www.npmjs.com/package/monk>
- Mongoose: <https://www.npmjs.com/package/express-mongoose>

Create web pages to allow users to:

- display documents
- search documents
- add and delete documents
- update documents

Load enough data into your database to enable these operations. Preferably, you should use data that you will use in your final project.

Report

Write a short informal report with screenshots that clearly demonstrate that you have successfully implemented the operations.

Include a brief description of your ETL (extract, transform, load) process to populate your database. Where did you get your data? How did you transform it (such as converting the data from CSV files)? How did you load the data into your database?

What to turn in

Submit to Canvas: **Assignment #5**.

- Your source files.
- Your report.

Rubric

Your work will be graded according to these criteria:

Criteria	Max points
<ul style="list-style-type: none">• MongoDB database with Express and clientside support operations<ul style="list-style-type: none">○ display documents○ search documents○ add documents○ delete documents○ update documents	<ul style="list-style-type: none">• 75<ul style="list-style-type: none">○ 15○ 15○ 15○ 15○ 15
<ul style="list-style-type: none">• Report<ul style="list-style-type: none">○ screenshots of operations○ ETL description	<ul style="list-style-type: none">• 25<ul style="list-style-type: none">○ 15○ 10