# CS 340 README

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## About the Project/Project Title

The purpose of this project is to develop a Python file that will Create/Read/Update/Delete (CRUD) indexes in MongoDB via the MongoClient imported from pymongo.

## Motivation

MongoDB is a powerful non-relational NoSQL database that can provide a variety of database types to its users. The language, however, can often be cumbersome to use, so I have decided to use Python to rectify this. Python in combination with pymongo offers an easy to use and intuitive API for accessing databases, collections, and documents.

## Getting Started

To get this project up and running the following installations and commands must be performed.

## Installation

* Latest Version of Python*.*
* Latest Version of MongoDB.
* Latest Version of Jupiter Notebook
* Latest Version of Python IDE of choice
  + from pymongo import MongoClient

## Usage

### Code Example

The Python CRUD code should create a new instance in the database that can search and return any instance searched for. The code should also have exception handling.

A screenshot of a computer program

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### Tests

For this application to work you must have the .py file in the same folder as the .ipynb file.

Open Jupyter and use the following code to connect to the database and run the python CRUD code.

From <File Name> import <Class Structure>

CRUD instantiates an object to be used for the purpose of signing into the database. <Class Structure> followed by the two parameters of {<username>, <password>}. Only if the arguments have not already been hardcoded. As shown below. User must have read/write privileges in the appropriate database.

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A variable is used to store the call to the CRUD module in the first case it is the create method the second instance is the read method.

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Functional code will return the newly created input upon calling the read function and parsing over the data using a for loop as shown.

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## Contact

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