# CS 340 CRUD README

## About the CRUD module

*The purpose of the CRUD module being developed is to provide the end user with the ability to create new documents, obtain or update existing documents, as well as delete documents altogether.*

## Motivation

*This project exists because the need to maintain a database is essential to productivity. If a user was not able to create, update, or delete records the database would remain mostly useless and would not provided accurate data.*

## Getting Started

*In order to utilize the CRUD module you would first need to confirm the database information for the database you would like to implement this this module on. The required fields are username, password, and database name for authentication. Both the create and read functions of the CRUD module take a standard python dictionary as input and output either a cursor for the read function or an object ID for the create function.*

## Installation

*The main tools used for this implementation are Python and MongoDB. The libraries used were Pymongo and MongoClient as well as PPrint for some formatting assistance.*

## Usage

### Code Example

*An example of the code used to create a new database entry is provided below. In this example we take in the user input as a dictionary item, and then upon successful creation output the new object’s ID. If a new entry is not successfully created the function returns an error message.*

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Description automatically generated with medium confidence*

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### Import Example Text Description automatically generated

### User Authentication ExampleText Description automatically generated

### Test Example

Text

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## Contact

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