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Overview

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Introduction

We are going to start to learn about APIs by working with MongoDB, a NoSQL database.

Learning Objectives

Upon successful completion of this lesson, you will be able to:

- Augment the Python modules you develop by consuming APIs.
- Discover the details of APIs and how to apply them in Python.
- Use the API of a NoSQL database to store and retrieve data.
- Identify when to use a NoSQL database instead of a relational database.

New Words, Concepts, and Tools

- APIs, NoSQL, MongoDB.
- Using document databases.
- Using third party documentation.

Prerequisites

To be successful in this lesson you will need to be very familiar with the following concepts, covered earlier in the class:

1. Understand lists, tuples and dictionaries

Before you Start

Required Reading

- [Background](#) on databases
- [Mongodb](#)

Optional Reading

- [What is NoSQL?](#)
- A [list](#) of databases and database characteristics
- [Simple](#) persistence.
- https://www.bogotobogo.com/python/MongoDB_PyMongo/python_MongoDB_pyMongo_tutorial_installing.php
- <https://gearheart.io/blog/how-do-you-use-mongodb-with-python/>
- <http://wiki.python.org/moin/PersistenceTools>

Suggested Workflow

- Explore the "Before you Start" readings and video
- Work through the lesson content pages
- Watch the required videos
- Submit your assignment

At the End of the Lesson

What material in this lesson do you still feel unclear about? Please use the discussion forum for this lesson to describe any concepts or ideas you've struggled with this week. Your instructor will address concepts that seem problematic for several students. You may also want to address issues raised by other students or ask for their help.

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