

SIE508: HW 5--- Exceptions

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Spring 2022

Assignment

1. Add appropriate exceptions and exception handling to persistent `basic_backend.py` and `Model.py`.

In this homework assignment, we revisit the `basic_backend.py` and the `Model.py` (code is attached). In this version, the `basic_backend.py` provides a CRUD interface that stores items to a file. The `ModelBasic` inherits from `Model` and currently has no exception handling, that is, it does not catch any exception that the `basic_backend.py` might raise.

Assignment: Introduce your own, new exceptions for the `Model` class. It is not really necessary since `Model` could raise the same exceptions as `basic_backend.py`. However, this is an assignment to get some experience with exception writing, using and handling. Make sure, `Model` raises its own exceptions that convey useful error messages.

- A) `Basic_backend.py` needs to be equipped to handle `FileIO` errors and do the appropriate exception handling for this code. Are there other places to add exception handling?
- B) `ModelBasic` needs to handle any exceptions that `basic_backend.py` might raise and raise exceptions itself around critical code blocks.
- C) Check for additional critical blocks you could find opportunities for exception handling.

Deliverables for this HW assignment:

1. all necessary `.py` files in a `.zip` file

Due: Thursday, April 21 2022, 11:59pm via Brightspace.