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import json

# Mixin class for logging
class LoggingMixin:
    def log(self, message):
        print(f"[LOG] {type(self).__name__}: {message}")

# Mixin class for serialization
class SerializationMixin:
    def to_json(self):
        return json.dumps(self.__dict__)

    def from_json(self, json_data):
        data = json.loads(json_data)
        self.__dict__.update(data)

# Example class using the mixins
class Person(LoggingMixin, SerializationMixin):
    def __init__(self, name, age):
        self.name = name
        self.age = age

# Using the Person class with mixins
person = Person(name="John", age=30)

# Utilizing logging functionality from LoggingMixin
person.log("Initializing the person object")

# Utilizing serialization functionality from SerializationMixin
json_data = person.to_json()
print(f"Serialized data: {json_data}")

# Creating a new person object and populating it from JSON data
new_person = Person(name="", age=0)
new_person.from_json(json_data)
print(f"Deserialized person: {new_person.__dict__}")
```



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Log: User created
Saving to database: {'user_id': 1, 'name': 'John'}
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