gwsql Documentation

Release 0.1.3

team useblocks

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groundwork-database provides database management functions to applications based on the framework groundwork. It provides a pattern for sql database support and a small console plugin to inspect those databases.

The main features are:

- Support of multiple database connections
- Support of various SQL based database like:
- PostgresSQL
- sqlite
- MySQL
- MariaDB
- · and all other databases, which are supported by SQLAlchemy

Note: groundwork-database is based on SQLAlchemy. All functions from SQLAlchemy are available inside groundwork plugins, which are using groundwork-database as pattern.

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Quickstart

To use groundwork-database inside a groundwork plugin, simply integrate it as followed:

```
from groundwork import App
from groundwork_database.patterns import GwSqlPattern
class MyPlugin (GwSqlPattern):
   def _init_(self, app, *args, **kwargs):
        self.name = "My Plugin"
        super().__init__(app, *args, **kwargs)
   def activate(self):
       name = "my_db"
       database_url = "sqlite:///:memory:"
        description = "My personal test database"
        db = self.databases.register(name, database_url, description)
       User = _qet_user_class(db.Base)
       my_user = User(name="Me")
       db.add(my_user)
       db.commit()
    def print_user(name):
        db = self.databases.get("my_db")
       user = db.query(User).filter_by(name=name).first()
       if user is not None:
           print (user.name)
       else:
           print("User %s not found." % name)
   def _get_user_class(base):
       class User (base):
            id = Column(Integer, primary_key=True)
           name = Column(String)
        return User
if __name__ == "__main__":
   my_app = App()
   my_plugin = MyPlugin(my_app)
   my_plugin.activate()
   my_plugin.print_user("me")
```