

The Librarian - code review documentation

Overview

This part of code responsible for working with library user abstract model
The project runs on *Django* framework and use build-in *REST API* system
Also this code contains *permissions system* example

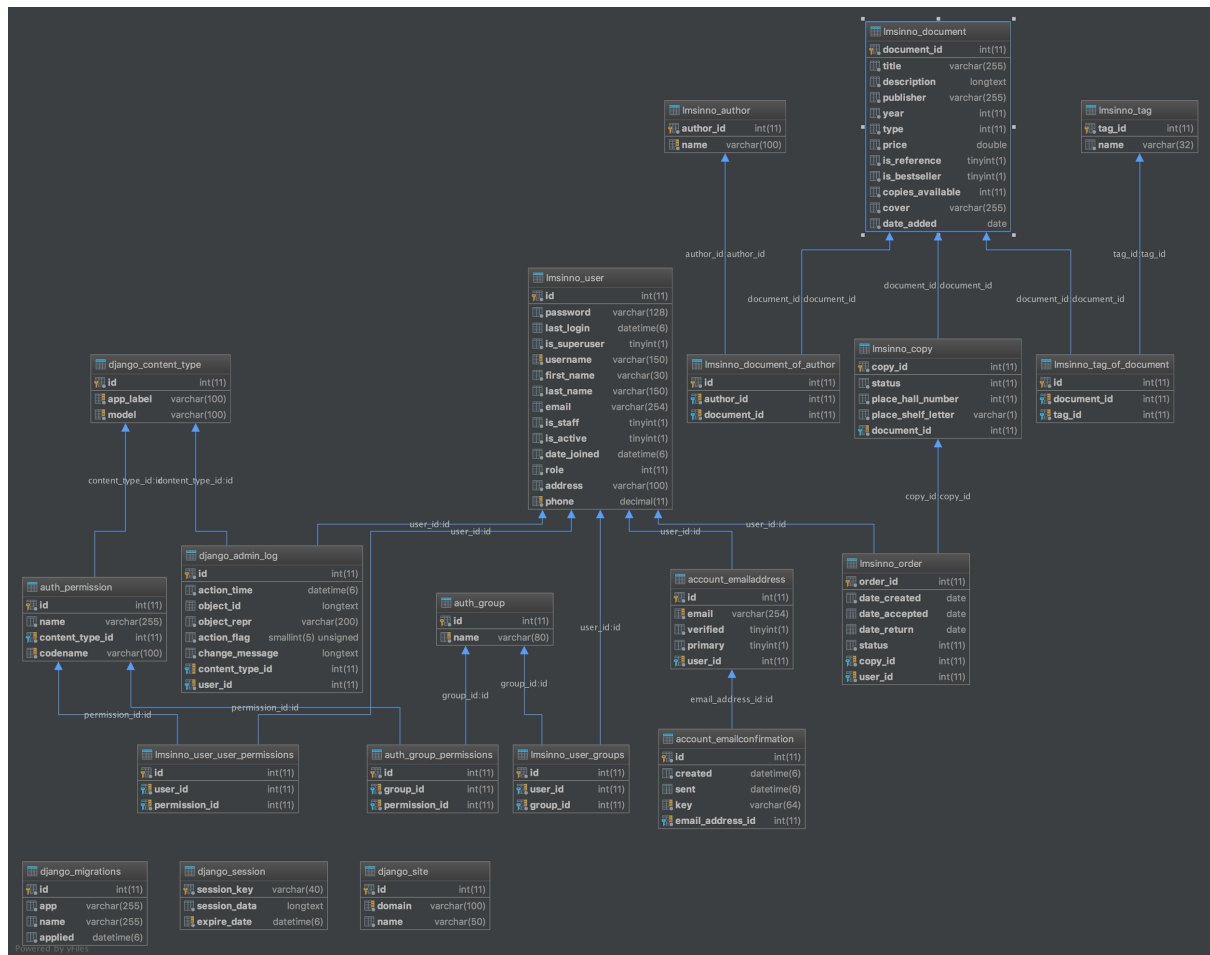
Goals

Build flexible system using only framework functionality

Usage Scenarios

Receive, update or delete information about user in library

Class Diagrams



Code

Categories for review

■ - Error ■ - Warning ■ - Well done!

1. Design decisions

1. **Reviewer1**: Methods reuses properly, all common things splitted into constants in same methods

2. **Reviewer1:** Sensitive constants are in the corresponding class
3. **Reviewer2:** Using separate class for constant

2. API design

1. **Reviewer1:** All used API methods and classes are in the following implementation (for review)
2. **Reviewer1:** Well-designed API implementation as prod ready client-server behaviour

3. Architecture (including inheritance hierarchy, if any)

1. **Reviewer1:** Modules are created separately, smart usage of permission methods
2. **Reviewer1:** May use decorators for some shells (e.g permission control), as far as Python is wrapper-friendly

Owner: Ok! [TO_BE_FIXED]

4. Implementation techniques, in particular choice of data structures and algorithms

1. **Reviewer1:** Algorithms use as less resources as possible
2. **Reviewer1:** Smart choice to use implemented DS in MySQL database for data queries
3. **Reviewer2:** Using `@staticmethod` for saving memory

5. Exceptions handling - Contracts

1. **Reviewer3:** Try - catch envelope for error handling
2. **Reviewer3:** Different exception types for different kind of exceptions
3. **Reviewer3:** Serializers for type checking and contract resolution
4. **Reviewer3:** JWT token usage

6. Programming style, names

1. **Reviewer3:** Readable code
2. **Reviewer3:** Constants are in special class for reuse
3. **Reviewer4:** Smart usage of blank lines. Makes code readable.
4. **Reviewer4:** All requirements of python style are fulfilled (classes' names in camel case, snake case for variables and functions' names, ect.)
5. **Reviewer3:** Next line (if condition is too long) in if branching should be shifted to the start but not to the very end of line => less readable (lines 28, 31...)

Owner: Ok! [TO_BE_FIXED]

7. Comments and documentation

1. **Reviewer3:** DocStrings are used properly
 2. **Reviewer3:** Very informative comments
 3. **Reviewer4:** It is better to write in DocStrings only that arguments which must be described or describe all of them, empty description does not look good.
- Owner:** Ok! [TO_BE_FIXED]
4. **Reviewer4:** Return position in DocStrings are informative