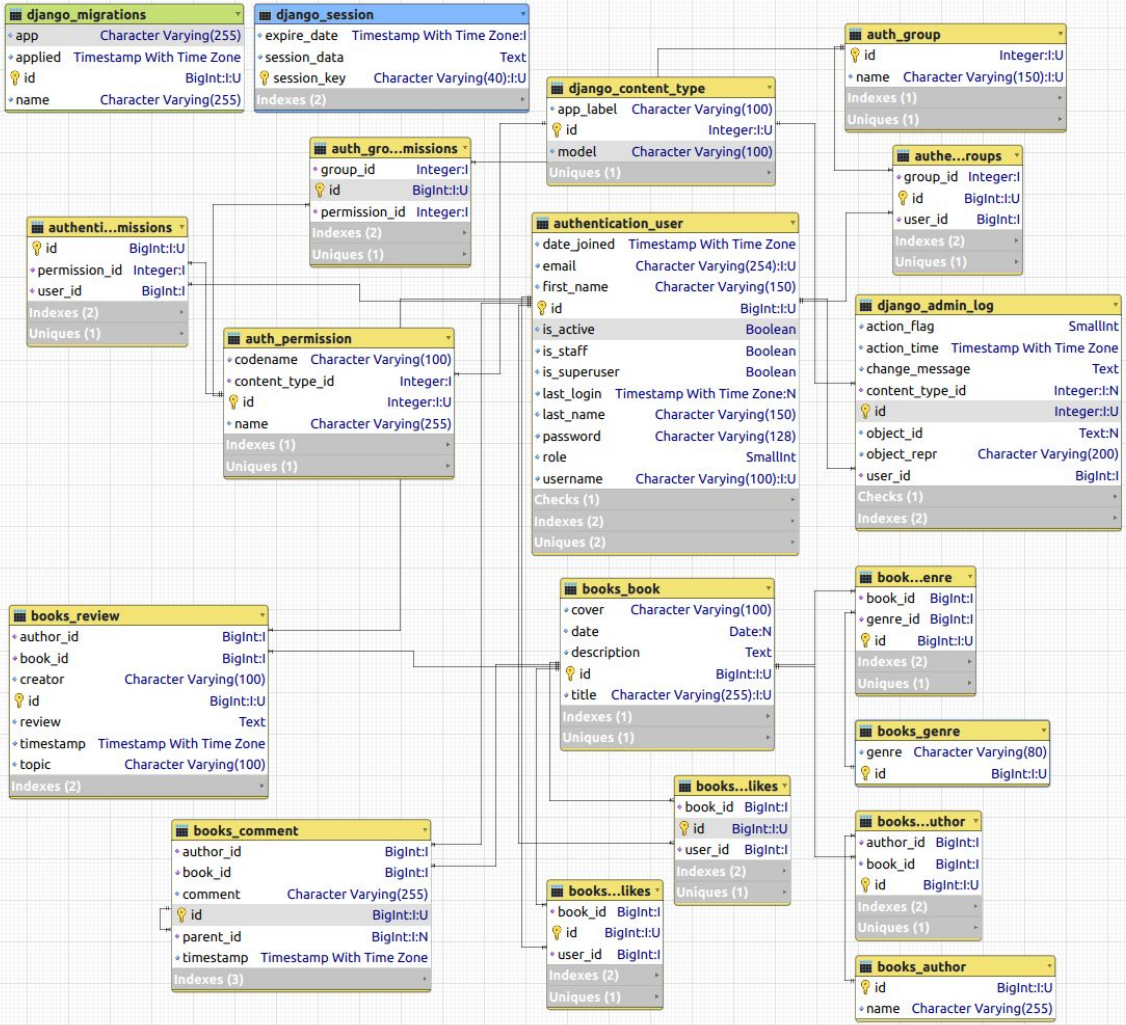
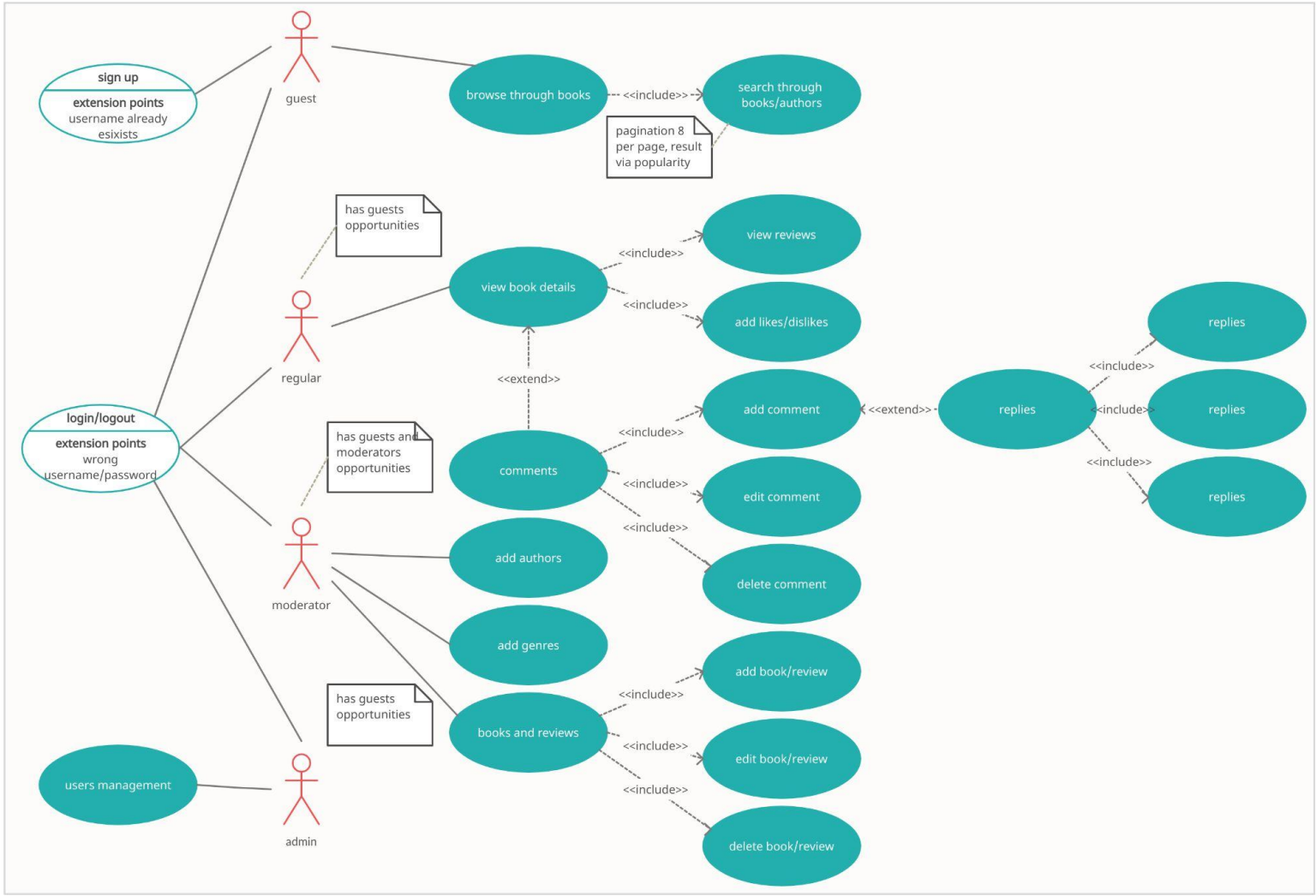
Books project

Database diagram


django_migrations
app Character Varying(255)
applied Timestamp With Time Zone
id BigInt:I:U
name Character Varying(255)
django_session
expire_date Timestamp With Time Zone:I
session_data Text
session_key Character Varying(40):I:U
Indexes (2)
auth_group
id Integer:I:U
name Character Varying(150):I:U
Indexes (1)
Uniques (1)
django_content_type
app_label Character Varying(100)
id Integer:I:U
model Character Varying(100)
Uniques (1)
auth_gro...missions
group_id Integer:I
id BigInt:I:U
permission_id Integer:I
Indexes (2)
Uniques (1)
authe...roups
group_id Integer:I
id BigInt:I:U
user_id BigInt:I
Indexes (2)
Uniques (1)
authenti...missions
id BigInt:I:U
permission_id Integer:I
user_id BigInt:I
Indexes (2)
Uniques (1)
authentication_user
date_joined Timestamp With Time Zone
email Character Varying(254):I:U
first_name Character Varying(150)
id BigInt:I:U
is_active Boolean
is_staff Boolean
is_superuser Boolean
last_login Timestamp With Time Zone:N
last_name Character Varying(150)
password Character Varying(128)
role SmallInt
username Character Varying(100):I:U
Checks (1)
Indexes (2)
Uniques (2)
django_admin_log
action_flag SmallInt
action_time Timestamp With Time Zone
change_message Text
content_type_id Integer:I:N
id Integer:I:U
object_id Text:N
object_repr Character Varying(200)
user_id BigInt:I
Checks (1)
Indexes (2)
auth_permission
codename Character Varying(100)
content_type_id Integer:I
id Integer:I:U
name Character Varying(255)
Indexes (1)
Uniques (1)
books_book
cover Character Varying(100)
date Date:N
description Text
id BigInt:I:U
title Character Varying(255):I:U
Indexes (1)
Uniques (1)
book...enre
book_id BigInt:I
genre_id BigInt:I
id BigInt:I:U
Indexes (2)
Uniques (1)
books_review
author_id BigInt:I
book_id BigInt:I
creator Character Varying(100)
id BigInt:I:U
review Text
timestamp Timestamp With Time Zone
topic Character Varying(100)
Indexes (2)
books_genre
genre Character Varying(80)
id BigInt:I:U
books...likes
book_id BigInt:I
id BigInt:I:U
user_id BigInt:I
Indexes (2)
Uniques (1)
books...uthor
author_id BigInt:I
book_id BigInt:I
id BigInt:I:U
Indexes (2)
Uniques (1)
books_comment
author_id BigInt:I
book_id BigInt:I
comment Character Varying(255)
id BigInt:I:U
parent_id BigInt:I:N
timestamp Timestamp With Time Zone
Indexes (3)
books...likes
book_id BigInt:I
id BigInt:I:U
user_id BigInt:I
Indexes (2)
Uniques (1)
books_author
id BigInt:I:U
name Character Varying(255)

Use cases


sign up
extension points
username already esixists
guest
browse through books
<<include>>
search through books/authors
pagination 8 per page, result via popularity
has guests opportunities
view book details
<<include>>
view reviews
<<include>>
add likes/dislikes
regular
<<extend>>
login/logout
extension points
wrong username/password
has guests and moderators opportunities
comments
<<include>>
add comment
<<extend>>
replies
<<include>>
replies
<<include>>
replies
<<include>>
replies
<<include>>
edit comment
<<include>>
delete comment
moderator
add authors
add genres
has guests opportunities
books and reviews
<<include>>
add book/review
<<include>>
edit book/review
<<include>>
delete book/review
users management
admin

Technology stack

- OS, programming language:
  Linux, Python
- IDE:
  PyCharm
- Data storage and querying:
  PostgreSQL
- Backend framework:
  Django
- Front-End framework:
  Bootstrap
- Containerization tool:
  Docker
- Version control:
  Git
- Other:
  HTML5, CSS3

Q&A

Thank you for your attention!