pr7-zentratech-dev-test-backend

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app.tests.TestSetup app.tests.ChatsViewTest app.tests.IndexViewTest app.tests.IntrestRequestExistsTest app.tests.IntrestRequestViewTest app.tests.ListUsersTest app.tests.ListUsersTest APIView	27 31 35 38 40 44
app.tests.TestSetup app.tests.ChatsViewTest app.tests.IndexViewTest app.tests.IntrestRequestExistsTest app.tests.IntrestRequestViewTest app.tests.ListUsersTest app.tests.ListUsersTest app.tests.MessageViewTest APIView app.views.ChatsView	27 31 35 38 40 44 26 30
app.tests.TestSetup app.tests.ChatsViewTest app.tests.IndexViewTest app.tests.IntrestRequestExistsTest app.tests.IntrestRequestViewTest app.tests.ListUsersTest app.tests.ListUsersTest app.tests.MessageViewTest APIView app.views.ChatsView app.views.IndexView	27 31 35 38 40 44 26 30 34
app.tests.TestSetup app.tests.ChatsViewTest app.tests.IndexViewTest app.tests.IntrestRequestExistsTest app.tests.IntrestRequestViewTest app.tests.ListUsersTest app.tests.MessageViewTest APIView app.views.ChatsView app.views.IndexView app.views.IndexView app.views.IntrestRequestExists	277 311 355 388 400 444 266 300 344 377
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Chapter 3

Class Index

3.1 Class List

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app.models.Chat
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app.models.ChatMessage
app.admin.ChatMessageAdmin
app.serializers.ChatSerializer
app.views.ChatsView
app.tests.ChatsViewTest
authentication.models.CustomUser
authentication.admin.CustomUserAdmin
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authentication.views.SignUpUser

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Chapter 4

Namespace Documentation

4.1 app.admin Namespace Reference

Classes

- · class ChatAdmin
- · class ChatMessageAdmin
- · class IntrestRequestAdmin

4.1.1 Detailed Description

4.2 app.models Namespace Reference

Classes

- · class Chat
- class ChatMessage
- · class IntrestRequest

Variables

• **User** = get_user_model()

4.2.1 Detailed Description

4.3 app.serializers Namespace Reference

Classes

- · class ChatSerializer
- · class IntrestRequestSerializer
- · class MessageSerializer

4.3.1 Detailed Description

4.4 app.signals Namespace Reference

Functions

addFriend (sender, instance, **kwargs)

Variables

User = get_user_model()

4.4.1 Detailed Description

4.4.2 Function Documentation

4.4.2.1 addFriend()

4.5 app.sockets Namespace Reference

Functions

- connect (sid, env, auth)
- connectChat (sid, data)
- messageRecieve (sid, data)

Variables

- User = get_user_model()
- mgr = socketio.AsyncRedisManager("redis://127.0.0.1:6379")
- sio

4.5.1 Detailed Description

4.5.2 Function Documentation

4.5.2.1 connect()

4.5.2.2 connectChat()

app.sockets.connectChat (

```
sid,
data)

@brief Handles a client's request to join a chat room.
@details This event handler allows a client to join a specific chat room based on the chat ID provided.
@param sid The session ID for the connected client.
@param data A dictionary containing the chat ID.
```

4.5.2.3 messageRecieve()

4.5.3 Variable Documentation

4.5.3.1 sio

```
app.sockets.sio
```

Initial value:

```
00001 = socketio.AsyncServer(
00002 async_mode="asgi", client_manager=mgr, cors_allowed_origins="*"
00003)
```

4.6 app.tests Namespace Reference

Classes

- class ChatsViewTest
- class IndexViewTest
- class IntrestRequestExistsTest
- class IntrestRequestViewTest
- class ListUsersTest
- class MessageViewTest
- class TestSetup

Variables

• User = get_user_model()

4.6.1 Detailed Description

4.7 app.urls Namespace Reference

Variables

· list urlpatterns

4.7.1 Detailed Description

4.7.2 Variable Documentation

4.7.2.1 urlpatterns

```
list app.urls.urlpatterns
Initial value:
00001 =
00002
            # @brief Home page route.
            # @details Maps the root URL (") to the IndexView, which handles the home page.
00003
00004
           path(", views.IndexView.as_view(), name="index"),
00005
00006
           # @brief Route for creating an interest request.
00007
           \# @details Maps the 'request' URL to the IntrestRequestView, which handles the
00008
                      creation and status updatation of interest requests.
00009
           path('request', views.IntrestRequestView.as_view(), name="request"),
00010
           # @brief Route for listing users.
# @details Maps the 'list_users' URL to the ListUsers view, which returns a list of users.
path('list_users', views.ListUsers.as_view(), name="list_users"),
00011
00012
00013
00014
           # @brief Route for checking if a request has been sent.
# @details Maps the 'check_request_sent' URL to the IntrestRequestExists view, which checks
00015
00017
                       if an interest request has already been sent between users.
00018
           path('check_request_sent', views.IntrestRequestExists.as_view(), name="check_request_sent"),
00019
           # @brief Route for list and create chats.
# @details Maps the 'chats' URL to the ChatsView view, which handles the
00020
00021
                         createtion and listing chats.
00022
           path('chats', views.ChatsView.as_view(), name="chats"),
00024
00025
           # @brief Route for list and create messages.
           \# @details Maps the 'messages' URL to the MessageView view, which handles the \# createtion and listing messages.
00026
00027
00028
           path('messages', views.MessageView.as_view(), name="messages"),
00029 ]
```

4.8 app.views Namespace Reference

Classes

- class ChatsView
- class IndexView
- · class IntrestRequestExists
- class IntrestRequestView
- class ListUsers
- · class MessageView

Variables

• **User** = get_user_model()

4.8.1 Detailed Description

4.9 authentication.admin Namespace Reference

Classes

class CustomUserAdmin

4.9.1 Detailed Description

```
@file admin.py
@brief Admin configuration for CustomUser model.
```

This module defines the admin interface for managing the CustomUser model in the Django admin site. It customizes the user creation and change forms, and defines how the CustomUser model should be displayed in the admin interface, including which fields are shown and how they are grouped.

@module

4.10 authentication.forms Namespace Reference

Classes

- class CustomUserChangeForm
- class CustomUserCreationForm

4.10.1 Detailed Description

```
@file forms.py
@brief Forms for managing CustomUser model.
```

This module defines forms for creating and changing instances of the CustomUser model. It extends Django's built-in 'UserCreationForm' and 'UserChangeForm' to include additional fields specific to the CustomUser model.

@module

4.11 authentication.manager Namespace Reference

Classes

· class UserManager

4.11.1 Detailed Description

```
@file manager.py
@brief Custom user manager for handling user creation and superuser management.
This module defines a custom user manager that extends Django's 'BaseUserManager'.
It provides methods for creating regular users and superusers with additional validation and settings.
@module
```

4.12 authentication.models Namespace Reference

Classes

class CustomUser

4.12.1 Detailed Description

```
@file models.py
@brief Defines the custom user model for the application.
@details This file contains the CustomUser model, which extends Django's AbstractUser model to include addition
```

4.13 authentication.serializers Namespace Reference

Classes

class userSerializer

Variables

User = get_user_model()

4.13.1 Detailed Description

```
@file serializers.py
@brief Serializer definitions for the User model.
@details This file contains the serializer for the CustomUser model, which includes field definitions, validat
```

4.14 authentication.urls Namespace Reference

Variables

· list urlpatterns

4.14.1 Detailed Description

```
@file urls.py
@brief URL routing definitions for the authentication app.
@details This file defines the URL patterns that route requests to the appropriate views in the authentication
```

4.14.2 Variable Documentation

4.14.2.1 urlpatterns

list authentication.urls.urlpatterns

```
Initial value:
```

```
00002
00003
         # @brief URL pattern for user signup.
00004
         # @details Routes to the SignUpUser view which handles user registration.
        # @route /signup
00005
00006
       path('signup', views.SignUpUser.as_view()),
80000
00009
         # @brief URL pattern for user login.
00010
00011
         # @details Routes to the LoginUser view which handles user authentication.
00012
         # @route /login
00014
         path('login', views.LoginUser.as_view()),
00015
00016
00017
         # @brief URL pattern to check username availability.
00018
         # @details Routes to the UserAvailability view which checks if a username is available.
00019
         # @route /username_availability
00020
00021
         path('username_availability', views.UserAvailability.as_view()),
00022
00023
         # @brief URL pattern to get the authenticated user's information.
                                                                              # @details Routes to the
00024
     UserIsAuthenticated view which returns the currently authenticated user's data.
00025 # @route /get_user
00026
00027
         path('get_user', views.UserIsAuthenticated.as_view()),
00028 ]
```

4.15 authentication.views Namespace Reference

Classes

- class LoginUser
- class SignUpUser
- · class UserAvailability
- · class UserIsAuthenticated

Functions

• getUserToken (user)

Variables

• **User** = get_user_model()

4.15.1 Detailed Description

```
@file views.py
@brief API views for user authentication and registration.
```

This module contains API views for user authentication and registration using Django Rest Framework. It includes views for checking username availability, user registration, and user login. JWT tokens are utilized for authentication, and user data is managed using Django's built-in User model.

@module

4.15.2 Function Documentation

4.15.2.1 getUserToken()

4.16 manage Namespace Reference

Functions

main ()

4.16.1 Detailed Description

 $\label{line:command-line} \mbox{Django's command-line utility for administrative tasks.}$

4.16.2 Function Documentation

4.16.2.1 main()

```
manage.main ( )
Run administrative tasks.
```

4.17 pr7 zentra test.asgi Namespace Reference

Variables

- **django_asgi_app** = get_asgi_application()
- application = socketio.ASGIApp(sio, django_asgi_app)

4.17.1 Detailed Description

```
ASGI config for pr7_zentra_test project.

It exposes the ASGI callable as a module-level variable named `application`.

For more information on this file, see https://docs.djangoproject.com/en/5.1/howto/deployment/asgi/
```

4.18 pr7 zentra test.settings Namespace Reference

Variables

- **BASE_DIR** = Path(__file__).resolve().parent.parent
- str SECRET KEY = 'django-insecure-@om bd*\$oapc(6fva52r=5^c(jy2lonk@ct*cdsao&g bxr1a2')
- bool **DEBUG** = True
- list ALLOWED_HOSTS = []
- list INSTALLED APPS
- list MIDDLEWARE
- str STATICFILES_STORAGE = 'whitenoise.storage.CompressedManifestStaticFilesStorage'
- str ROOT_URLCONF = 'pr7 zentra test.urls'
- list TEMPLATES
- str ASGI_APPLICATION = 'pr7_zentra_test.asgi.application'
- dict DATABASES
- list AUTH_PASSWORD_VALIDATORS
- bool CORS ORIGIN ALLOW ALL = True
- dict REST_FRAMEWORK

4.18.1 Detailed Description

```
Django settings for pr7_zentra_test project.

Generated by 'django-admin startproject' using Django 5.1.

For more information on this file, see https://docs.djangoproject.com/en/5.1/topics/settings/

For the full list of settings and their values, see https://docs.djangoproject.com/en/5.1/ref/settings/
```

4.18.2 Variable Documentation

4.18.2.1 AUTH_PASSWORD_VALIDATORS

list pr7_zentra_test.settings.AUTH_PASSWORD_VALIDATORS

Initial value:

```
00001 =
00002
00003
              'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
00004
00005
         {
00006
              'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
00007
          },
80000
         {
00009
              'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
00010
          },
00011
          {
00012
              \verb|'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator'|,\\
00013
          },
00014 ]
```

4.18.2.2 DATABASES

dict pr7_zentra_test.settings.DATABASES

Initial value:

4.18.2.3 INSTALLED APPS

list pr7_zentra_test.settings.INSTALLED_APPS

Initial value:

```
00002
            'django.contrib.admin',
00003
            'django.contrib.auth',
            'django.contrib.contenttypes',
'django.contrib.sessions',
00004
00005
00006
            'django.contrib.messages',
00007
            'django.contrib.staticfiles',
80000
            'rest_framework'
            'app.apps.AppConfig',
00009
00010
            \hbox{\it '} authentication.apps. Authentication Config\hbox{\it '}
00011 1
```

4.18.2.4 MIDDLEWARE

list pr7_zentra_test.settings.MIDDLEWARE

Initial value:

```
00001
00002
          'django.middleware.security.SecurityMiddleware',
00003
          'django.contrib.sessions.middleware.SessionMiddleware',
00004
          'django.middleware.common.CommonMiddleware',
00005
          'django.middleware.csrf.CsrfViewMiddleware',
00006
          'django.contrib.auth.middleware.AuthenticationMiddleware',
          \verb|'django.contrib.messages.middleware.MessageMiddleware'|,
00007
00008
          ^\primedjango.middleware.clickjacking.XFrameOptionsMiddleware^\prime,
00009
          'corsheaders.middleware.CorsMiddleware',
00010
          'whitenoise.middleware.WhiteNoiseMiddleware',
00011 ]
```

4.18.2.5 REST_FRAMEWORK

dict pr7_zentra_test.settings.REST_FRAMEWORK

Initial value:

4.18.2.6 TEMPLATES

list pr7_zentra_test.settings.TEMPLATES

Initial value:

```
00001 = [
00002
              {\tt 'BACKEND': 'django.template.backends.django.DjangoTemplates',}\\
00003
00004
              'DIRS': [],
              'APP_DIRS': True,
00005
00006
              'OPTIONS': {
00007
                   'context_processors': [
80000
                       'django.template.context_processors.debug',
00009
                       \tt 'django.template.context\_processors.request'
00010
                       'django.contrib.auth.context_processors.auth',
00011
                       'django.contrib.messages.context_processors.messages',
00012
                  ],
00013
              },
00014
          },
00015 1
```

4.19 pr7_zentra_test.urls Namespace Reference

Variables

· list urlpatterns

4.19.1 Detailed Description

```
URL configuration for pr7_zentra_test project.
The 'urlpatterns' list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/5.1/topics/http/urls/
Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: path('', views.home, name='home')
Class-based views
    1. Add an import: from other_app.views import Home
    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
```

4.19.2 Variable Documentation

4.19.2.1 urlpatterns

```
list pr7_zentra_test.urls.urlpatterns
```

Initial value:

```
00001 = [
00002     path('admin/', admin.site.urls),
00003     path(", include('app.urls')),
00004     path('auth/', include('authentication.urls')),
00005 ]
```

4.20 pr7_zentra_test.wsgi Namespace Reference

Variables

• application = get wsgi application()

4.20.1 Detailed Description

```
WSGI config for pr7_zentra_test project.

It exposes the WSGI callable as a module-level variable named ''application''.

For more information on this file, see https://docs.djangoproject.com/en/5.1/howto/deployment/wsgi/
```

4.21 server Namespace Reference

Variables

- · log_level
- · access log

4.21.1 Detailed Description

Chapter 5

Class Documentation

5.1 app.apps.AppConfig Class Reference

Public Member Functions

· None ready (self)

Static Public Attributes

- str default_auto_field = 'django.db.models.BigAutoField'
- str name = 'app'

The documentation for this class was generated from the following file:

· src/app/apps.py

5.2 authentication.apps.AuthenticationConfig Class Reference

Inheritance diagram for authentication.apps.AuthenticationConfig:



Static Public Attributes

- str default_auto_field = 'django.db.models.BigAutoField'
- str name = 'authentication'

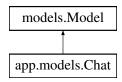
The documentation for this class was generated from the following file:

src/authentication/apps.py

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5.3 app.models.Chat Class Reference

Inheritance diagram for app.models.Chat:



Static Public Attributes

- initiator
- · acceptor
- **short_id** = models.CharField(max_length=255, default=uuid.uuid4, unique=True)

5.3.1 Detailed Description

```
@class Chat
@brief Model representing a chat session between two users.
@details This model defines a chat session, including the users involved and a unique identifier for the chat.
```

5.3.2 Member Data Documentation

5.3.2.1 acceptor

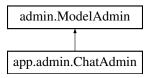
5.3.2.2 initiator

The documentation for this class was generated from the following file:

src/app/models.py

5.4 app.admin.ChatAdmin Class Reference

Inheritance diagram for app.admin.ChatAdmin:



Static Public Attributes

· list list_display

5.4.1 Detailed Description

5.4.2 Member Data Documentation

5.4.2.1 list_display

```
list app.admin.ChatAdmin.list_display [static]
```

Initial value:

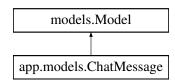
```
= [
    "short_id",
    "initiator",
    "acceptor",
```

The documentation for this class was generated from the following file:

• src/app/admin.py

5.5 app.models.ChatMessage Class Reference

Inheritance diagram for app.models.ChatMessage:



24 Class Documentation

Static Public Attributes

- chat = models.ForeignKey(Chat, on delete=models.CASCADE, related name="messages")
- **sender** = models.ForeignKey(User, on_delete=models.DO_NOTHING)
- text = models.TextField()
- created_at = models.DateTimeField(default=timezone.now)

5.5.1 Detailed Description

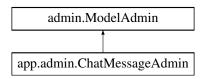
```
@class ChatMessage
@brief Model representing a message in a chat session.
@details This model defines a message sent within a chat session, including the sender, the message text, and
```

The documentation for this class was generated from the following file:

· src/app/models.py

5.6 app.admin.ChatMessageAdmin Class Reference

Inheritance diagram for app.admin.ChatMessageAdmin:



Static Public Attributes

· list list_display

5.6.1 Detailed Description

5.6.2 Member Data Documentation

5.6.2.1 list_display

```
list app.admin.ChatMessageAdmin.list_display [static]
```

Initial value:

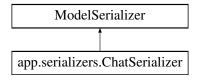
```
"created_at",
"chat",
"sender",
"text"
```

The documentation for this class was generated from the following file:

src/app/admin.py

5.7 app.serializers.ChatSerializer Class Reference

Inheritance diagram for app.serializers.ChatSerializer:



Classes

class Meta

Public Member Functions

· validate (self, data)

Static Public Attributes

- initiator = userSerializer(read only=True)
- acceptor = userSerializer(read_only=True)

5.7.1 Detailed Description

```
@brief Serializer for the Chat model. @details This serializer handles the serialization of Chat instances, including nested user data.
```

5.7.2 Member Function Documentation

5.7.2.1 validate()

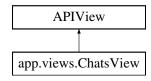
The documentation for this class was generated from the following file:

· src/app/serializers.py

26 Class Documentation

5.8 app.views.ChatsView Class Reference

Inheritance diagram for app.views.ChatsView:



Public Member Functions

- get (self, request)
- post (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.8.1 Detailed Description

5.8.2 Member Function Documentation

5.8.2.1 get()

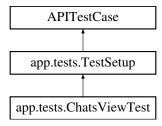
5.8.2.2 post()

The documentation for this class was generated from the following file:

src/app/views.py

5.9 app.tests.ChatsViewTest Class Reference

Inheritance diagram for app.tests.ChatsViewTest:



Public Member Functions

- · test_get_chats (self)
- test_post_chat (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- user2
- intrest_request
- · chat
- chat_message
- token

5.9.1 Detailed Description

```
@brief Test case for the Chats view. @details Tests the Chats view for retrieving and creating chat instances.
```

5.9.2 Member Function Documentation

5.9.2.1 test_get_chats()

```
app.tests.ChatsViewTest.test_get_chats ( self \ ) @brief Tests retrieving chat instances. @details Ensures that the GET request to the Chats view returns the correct list of chats.
```

28 Class Documentation

5.9.2.2 test_post_chat()

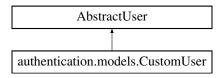
```
app.tests.ChatsViewTest.test_post_chat ( self \ ) @brief Tests creating a new chat instance. @details Ensures that the POST request to the Chats view successfully creates a new chat.
```

The documentation for this class was generated from the following file:

· src/app/tests.py

5.10 authentication.models.CustomUser Class Reference

Inheritance diagram for authentication.models.CustomUser:



Static Public Attributes

- **friends** = models.ManyToManyField('self', symmetrical=True)
- list REQUIRED FIELDS = []
- objects = UserManager()

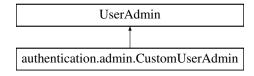
5.10.1 Detailed Description

The documentation for this class was generated from the following file:

· src/authentication/models.py

5.11 authentication.admin.CustomUserAdmin Class Reference

Inheritance diagram for authentication.admin.CustomUserAdmin:



Static Public Attributes

- add_form = CustomUserCreationForm
- form = CustomUserChangeForm
- model = CustomUser
- · list list_display
- · list fieldsets

5.11.1 Detailed Description

@brief Admin class for the CustomUser model.

This class defines the forms, fieldsets, and list display settings for the CustomUser model in the Django admin interface.

5.11.2 Member Data Documentation

5.11.2.1 list_display

list authentication.admin.CustomUserAdmin.list_display [static]

Initial value:

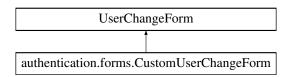
```
"username',
    'email',
    'first_name',
    'last_name',
    'is_staff',
    'is_active',
    'is_superuser'
```

The documentation for this class was generated from the following file:

· src/authentication/admin.py

5.12 authentication.forms.CustomUserChangeForm Class Reference

 $Inheritance\ diagram\ for\ authentication. forms. Custom User Change Form:$



Classes

• class Meta

5.12.1 Detailed Description

Obrief Form for changing existing CustomUser instances.

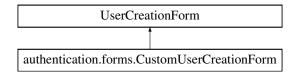
This form extends the built-in UserChangeForm to include additional fields for the CustomUser model.

The documentation for this class was generated from the following file:

· src/authentication/forms.py

5.13 authentication.forms.CustomUserCreationForm Class Reference

Inheritance diagram for authentication.forms.CustomUserCreationForm:



Classes

class Meta

5.13.1 Detailed Description

Obrief Form for creating new CustomUser instances.

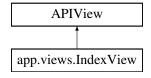
This form extends the built-in UserCreationForm to include additional fields for the CustomUser model.

The documentation for this class was generated from the following file:

· src/authentication/forms.py

5.14 app.views.IndexView Class Reference

Inheritance diagram for app.views.IndexView:



Public Member Functions

• get (self, request)

5.14.1 Detailed Description

```
@brief View for returning a simple greeting message. @details This view handles GET requests and returns a response with a greeting message.
```

5.14.2 Member Function Documentation

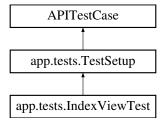
5.14.2.1 get()

The documentation for this class was generated from the following file:

· src/app/views.py

5.15 app.tests.IndexViewTest Class Reference

Inheritance diagram for app.tests.IndexViewTest:



Public Member Functions

test_index_view (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- · user2
- · intrest request
- chat
- · chat message
- token

5.15.1 Detailed Description

```
{\tt @brief} Test case for the index view. {\tt @details} Tests the index view's response status and message content.
```

5.15.2 Member Function Documentation

5.15.2.1 test index view()

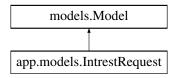
```
app.tests.IndexViewTest.test_index_view ( self \ ) @brief Tests the index view. @details Ensures that the index view returns a 200 OK status and the expected message.
```

The documentation for this class was generated from the following file:

· src/app/tests.py

5.16 app.models.IntrestRequest Class Reference

Inheritance diagram for app.models.IntrestRequest:



Static Public Attributes

- tuple STATUS_CHOICES
- **dt** = models.DateTimeField(default=timezone.now)
- request_from = models.ForeignKey(User, on_delete=models.CASCADE, related_name="request_from")
- request_to = models.ForeignKey(User, on_delete=models.CASCADE, related_name="request_to")
- status = models.CharField(max_length=1000, choices=STATUS_CHOICES, default="pending")

5.16.1 Detailed Description

5.16.2 Member Data Documentation

5.16.2.1 STATUS CHOICES

```
tuple app.models.IntrestRequest.STATUS_CHOICES [static]
```

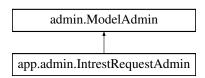
Initial value:

The documentation for this class was generated from the following file:

· src/app/models.py

5.17 app.admin.IntrestRequestAdmin Class Reference

 $Inheritance\ diagram\ for\ app.admin. Intrest Request Admin:$



Static Public Attributes

· list list_display

5.17.1 Detailed Description

5.17.2 Member Data Documentation

5.17.2.1 list display

```
list app.admin.IntrestRequestAdmin.list_display [static]
```

Initial value:

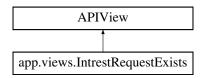
```
= [
    "request_from",
    "request_to",
    "status"
```

The documentation for this class was generated from the following file:

src/app/admin.py

5.18 app.views.IntrestRequestExists Class Reference

Inheritance diagram for app.views.IntrestRequestExists:



Public Member Functions

· post (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.18.1 Detailed Description

```
@brief View for checking if an interest request has been sent.
@details This view handles POST requests to check if an interest request has already
    been sent from the current user to another user.
```

5.18.2 Member Function Documentation

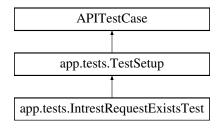
5.18.2.1 post()

The documentation for this class was generated from the following file:

src/app/views.py

5.19 app.tests.IntrestRequestExistsTest Class Reference

Inheritance diagram for app.tests.IntrestRequestExistsTest:



Public Member Functions

· test_intrest_request_exists (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- · tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- · user2
- intrest_request
- · chat
- · chat_message
- token

5.19.1 Detailed Description

```
@brief Test case for checking if an interest request exists. @details Tests the IntrestRequestExists view for checking if a request has been sent.
```

5.19.2 Member Function Documentation

5.19.2.1 test_intrest_request_exists()

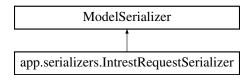
```
app.tests.IntrestRequestExistsTest.test_intrest_request_exists ( self \ ) @brief Tests checking if an interest request exists. @details Ensures that the POST request to the IntrestRequestExists view returns the correct status.
```

The documentation for this class was generated from the following file:

src/app/tests.py

5.20 app.serializers.IntrestRequestSerializer Class Reference

Inheritance diagram for app.serializers.IntrestRequestSerializer:



Classes

· class Meta

Public Member Functions

· validate (self, data)

Static Public Attributes

- request_to = userSerializer(read_only=True)
- request_from = userSerializer(read_only=True)

5.20.1 Detailed Description

5.20.2 Member Function Documentation

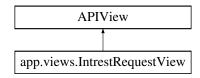
5.20.2.1 validate()

The documentation for this class was generated from the following file:

src/app/serializers.py

5.21 app.views.IntrestRequestView Class Reference

Inheritance diagram for app.views.IntrestRequestView:



Public Member Functions

- get (self, request)
- post (self, request)
- patch (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.21.1 Detailed Description

```
@brief View for handling IntrestRequest operations.
@details This view handles GET, POST, and PATCH requests for managing IntrestRequest instances.

Only authenticated users are allowed to access this view.
```

5.21.2 Member Function Documentation

5.21.2.1 get()

5.21.2.2 patch()

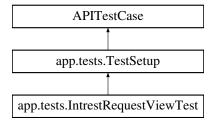
5.21.2.3 post()

The documentation for this class was generated from the following file:

src/app/views.py

5.22 app.tests.IntrestRequestViewTest Class Reference

Inheritance diagram for app.tests.IntrestRequestViewTest:



Public Member Functions

- · test_get_intrest_requests (self)
- test_post_intrest_request (self)
- test_patch_intrest_request (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- · user2
- · intrest_request
- chat
- · chat_message
- token

5.22.1 Detailed Description

```
@brief Test case for the IntrestRequest view. @details Tests the IntrestRequest view for GET, POST, and PATCH methods.
```

5.22.2 Member Function Documentation

5.22.2.1 test_get_intrest_requests()

```
app.tests.IntrestRequestViewTest.test_get_intrest_requests ( self \ ) @brief Tests retrieving interest requests. @details Ensures that the GET request to the IntrestRequest view returns the correct number of requests.
```

5.22.2.2 test_patch_intrest_request()

```
app.tests.IntrestRequestViewTest.test_patch_intrest_request ( self \ ) @brief Tests updating an existing interest request. @details Ensures that the PATCH request to the IntrestRequest view updates the request's status.
```

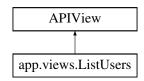
5.22.2.3 test post intrest request()

The documentation for this class was generated from the following file:

src/app/tests.py

5.23 app.views.ListUsers Class Reference

Inheritance diagram for app.views.ListUsers:



Public Member Functions

• get (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.23.1 Detailed Description

@brief View for listing users excluding those with existing interest requests. @details This view handles GET requests to retrieve a list of users that the current user has not sent an interest request to.

5.23.2 Member Function Documentation

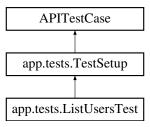
5.23.2.1 get()

The documentation for this class was generated from the following file:

· src/app/views.py

5.24 app.tests.ListUsersTest Class Reference

Inheritance diagram for app.tests.ListUsersTest:



Public Member Functions

- test_list_users (self)
- test_list_users_with_query (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth headers (self, token)
- tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- · user2
- intrest_request
- · chat
- · chat_message
- token

5.24.1 Detailed Description

```
@brief Test case for the ListUsers view.
@details Tests the ListUsers view for listing users and querying users by username.
```

5.24.2 Member Function Documentation

5.24.2.1 test_list_users()

```
app.tests.ListUsersTest.test_list_users ( self \ ) @brief Tests listing all users. @details Ensures that the GET request to the ListUsers view returns the correct list of users.
```

5.24.2.2 test_list_users_with_query()

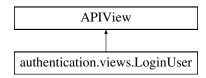
```
app.tests.ListUsersTest.test_list_users_with_query ( self \ ) @brief Tests querying users by username. @details Ensures that the GET request with a query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the correct list of users matching the query string returns the query
```

The documentation for this class was generated from the following file:

src/app/tests.py

5.25 authentication.views.LoginUser Class Reference

Inheritance diagram for authentication.views.LoginUser:



Public Member Functions

• post (self, request)

5.25.1 Detailed Description

```
@brief API view to handle user login.
```

This view processes POST requests for user authentication. It validates the credentials, generates JWT tokens upon successful login, and returns them in the response.

5.25.2 Member Function Documentation

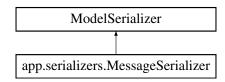
5.25.2.1 post()

The documentation for this class was generated from the following file:

· src/authentication/views.py

5.26 app.serializers.MessageSerializer Class Reference

Inheritance diagram for app.serializers.MessageSerializer:



Classes

• class Meta

Static Public Attributes

• **sender** = **userSerializer**(read_only=True)

5.26.1 Detailed Description

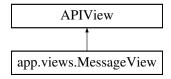
```
@brief Serializer for the ChatMessage model.
@details This serializer handles the serialization of chat messages, excluding the 'chat' field.
```

The documentation for this class was generated from the following file:

· src/app/serializers.py

5.27 app.views.MessageView Class Reference

Inheritance diagram for app.views.MessageView:



Public Member Functions

• get (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.27.1 Detailed Description

5.27.2 Member Function Documentation

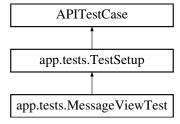
5.27.2.1 get()

The documentation for this class was generated from the following file:

src/app/views.py

5.28 app.tests.MessageViewTest Class Reference

Inheritance diagram for app.tests.MessageViewTest:



Public Member Functions

- test_get_messages (self)
- test_get_messages_no_chat_id (self)

Public Member Functions inherited from app.tests.TestSetup

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- tearDown (self)

Additional Inherited Members

Public Attributes inherited from app.tests.TestSetup

- user1
- · user2
- · intrest_request
- chat
- · chat_message
- token

5.28.1 Detailed Description

```
\mbox{\tt @brief} 
 Test case for the Message view. \mbox{\tt @details} 
 Tests the Message view for retrieving chat messages.
```

5.28.2 Member Function Documentation

app.tests.MessageViewTest.test_get_messages (

5.28.2.1 test_get_messages()

5.28.2.2 test_get_messages_no_chat_id()

The documentation for this class was generated from the following file:

· src/app/tests.py

5.29 app.serializers.ChatSerializer.Meta Class Reference

Static Public Attributes

```
model = Chatlist fields = ["short_id", "initiator", "acceptor"]
```

5.29.1 Detailed Description

```
@brief Meta options for the ChatSerializer.
@details This inner class defines the model being serialized and the fields to include
    in the serialized representation.
```

The documentation for this class was generated from the following file:

src/app/serializers.py

5.30 app.serializers.IntrestRequestSerializer.Meta Class Reference

Static Public Attributes

- model = IntrestRequest
- · list fields

5.30.1 Detailed Description

```
@brief Meta options for the IntrestRequestSerializer.
@details This inner class defines the model being serialized and the fields to include
    in the serialized representation.
```

5.30.2 Member Data Documentation

5.30.2.1 fields

list app.serializers.IntrestRequestSerializer.Meta.fields [static]

Initial value:

The documentation for this class was generated from the following file:

src/app/serializers.py

5.31 app.serializers.MessageSerializer.Meta Class Reference

Static Public Attributes

- model = ChatMessage
- tuple **exclude** = ("chat",)

5.31.1 Detailed Description

```
@brief Meta options for the MessageSerializer.
@details This inner class defines the model being serialized and the fields to include
    in the serialized representation.
```

The documentation for this class was generated from the following file:

· src/app/serializers.py

5.32 authentication.forms.CustomUserChangeForm.Meta Class Reference

Static Public Attributes

```
model = CustomUsertuple fields = ('friends',)
```

The documentation for this class was generated from the following file:

· src/authentication/forms.py

5.33 authentication.forms.CustomUserCreationForm.Meta Class Reference

Static Public Attributes

```
model = CustomUsertuple fields = ('friends',)
```

The documentation for this class was generated from the following file:

· src/authentication/forms.py

5.34 authentication.serializers.userSerializer.Meta Class Reference

Static Public Attributes

```
• model = User
```

- list fields
- dict extra_kwargs = {'password': {'write_only': True}}

5.34.1 Detailed Description

5.34.2 Member Data Documentation

5.34.2.1 fields

list authentication.serializers.userSerializer.Meta.fields [static]

Initial value:

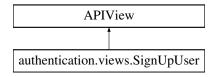
```
"username',
    'email',
    'password',
    'first_name',
    'last_name'
```

The documentation for this class was generated from the following file:

· src/authentication/serializers.py

5.35 authentication.views.SignUpUser Class Reference

Inheritance diagram for authentication.views.SignUpUser:



Public Member Functions

post (self, request)

5.35.1 Detailed Description

```
Obrief API view to handle user registration.
```

This view handles POST requests for creating a new user. It validates the input data using a serializer, creates a user, and generates ${\tt JWT}$ tokens.

5.35.2 Member Function Documentation

5.35.2.1 post()

The documentation for this class was generated from the following file:

· src/authentication/views.py

5.36 app.tests.TestSetup Class Reference

Inheritance diagram for app.tests.TestSetup:



Public Member Functions

- setUp (self)
- get_jwt_token (self, user)
- auth_headers (self, token)
- tearDown (self)

Public Attributes

- user1
- user2
- · intrest_request
- chat
- · chat_message
- token

5.36.1 Detailed Description

5.36.2 Member Function Documentation

5.36.2.1 auth_headers()

```
app.tests.TestSetup.auth_headers ( self, \\ token \;) @brief Returns the authorization headers for the test requests. @param token The JWT token to be included in the authorization header. @return A dictionary containing the authorization header.
```

5.36.2.2 get_jwt_token()

5.36.2.3 setUp()

```
app.tests.TestSetup.setUp ( self \ ) @brief Initializes test data before each test case. @details Creates two users, a chat interest request, a chat, and a chat message. Also obtains a JWT token for authentication in test requests.
```

5.36.2.4 tearDown()

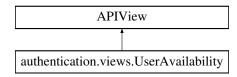
```
app.tests.TestSetup.tearDown ( self \ ) @brief Cleans up after each test case. @details This method is called after each test case to perform any necessary cleanup.
```

The documentation for this class was generated from the following file:

· src/app/tests.py

5.37 authentication.views.UserAvailability Class Reference

Inheritance diagram for authentication.views.UserAvailability:



Public Member Functions

• post (self, request)

5.37.1 Detailed Description

```
@brief API view to check the availability of a username.
This view handles POST requests to determine if a given username is available in the database.
```

5.37.2 Member Function Documentation

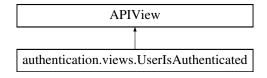
5.37.2.1 post()

The documentation for this class was generated from the following file:

· src/authentication/views.py

5.38 authentication.views.UserlsAuthenticated Class Reference

Inheritance diagram for authentication.views.UserIsAuthenticated:



Public Member Functions

• get (self, request)

Static Public Attributes

• list **permission_classes** = [IsAuthenticated]

5.38.1 Detailed Description

```
@brief API view to get the authenticated user's information.

This view handles GET requests and returns the currently authenticated user's data.
```

5.38.2 Member Function Documentation

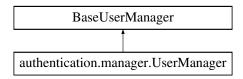
5.38.2.1 get()

The documentation for this class was generated from the following file:

src/authentication/views.py

5.39 authentication.manager.UserManager Class Reference

Inheritance diagram for authentication.manager.UserManager:



Public Member Functions

- create_user (self, username, password=None, **extra_fields)
- create_superuser (self, username, password=None, **extra_fields)

5.39.1 Detailed Description

```
@brief Custom manager for CustomUser model.
```

This class provides custom methods for creating users and superusers, including validation for required fields and setting default values for superuser attributes.

5.39.2 Member Function Documentation

5.39.2.1 create_superuser()

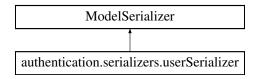
5.39.2.2 create_user()

The documentation for this class was generated from the following file:

· src/authentication/manager.py

5.40 authentication.serializers.userSerializer Class Reference

Inheritance diagram for authentication.serializers.userSerializer:



Classes

· class Meta

Public Member Functions

- · validate (self, data)
- create (self, validated_data)

5.40.1 Member Function Documentation

5.40.1.1 create()

5.40.1.2 validate()

The documentation for this class was generated from the following file:

· src/authentication/serializers.py