My Project

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

app 9
app.config 10
app.models 10
app.sockets 10

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

app.config.Config 11
Enum
app.models.MessageType 14
app.models.Role 15
app.models.RoomType 18
db.Model
app.models.Friends 12
app.models.Messages 13
app.models.Room 16
app.models.Room_Users 17
app.models.UserPhoto 18
app.models.Users 19

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

app.config.Config 11
app.models.Friends 12
app.models.Messages 13
app.models.MessageType 14
app.models.Role 15
app.models.Room 16
app.models.Room_Users 17
app.models.RoomType 18
app.models.UserPhoto 18
app.models.Users 19

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

__init__.py 23
config.py 23
models.py 24
sockets.py 24

Chapter 5

Namespace Documentation

5.1 app Namespace Reference

Namespaces

- namespace config
- namespace models
- namespace sockets

Functions

- create_app ()

Variables

- db = SQLAlchemy()
- jwt = JWTManager()
- socketio = SocketIO(cors_allowed_origins="*", async_mode="threading")

5.1.1 Function Documentation

5.1.1.1 create_app()

```
app.create_app ()
```

```
Funkcja tworz ca  aplikacj  Flask oraz inicjalizuje wszystkie niezb dne
rozszerzenia i blueprinty. Zwraca gotow  aplikacj  Flask.

Returns:
    app (Flask): gotowa aplikacja Flask
```

5.1.2 Variable Documentation

5.1.2.1 db

```
app.db = SQLAlchemy()
```

5.1.2.2 jwt

```
app.jwt = JWTManager()
```

5.1.2.3 socketio

```
app.socketio = SocketIO(cors_allowed_origins="*", async_mode="threading")
```

5.2 app.config Namespace Reference

Classes

- class Config

5.3 app.models Namespace Reference

Classes

- class Friends
- class Messages
- class MessageType
- class Role
- class Room
- class Room_Users
- class RoomType
- class UserPhoto
- class Users

5.4 app.sockets Namespace Reference

Functions

- register_socket_handlers (socketio)

5.4.1 Function Documentation

5.4.1.1 register_socket_handlers()

```
app.sockets.register_socket_handlers (
            socketio)
```

Chapter 6

Class Documentation

6.1 app.config.Config Class Reference

Static Public Attributes

- JWT_SECRET_KEY = os.getenv('JWT_SECRET_KEY', 'super-secret-key')
- SQLALCHEMY_DATABASE_URI = os.getenv('DATABASE_URL', 'sqlite:///database.db')
- bool SQLALCHEMY_TRACK_MODIFICATIONS = False
- JWT_ACCESS_TOKEN_EXPIRES = os.getenv('JWT_ACCESS_TOKEN_EXPIRES', timedelta(days=2))

6.1.1 Member Data Documentation

6.1.1.1 JWT_ACCESS_TOKEN_EXPIRES

```
app.config.Config.JWT_ACCESS_TOKEN_EXPIRES = os.getenv('JWT_ACCESS_TOKEN_EXPIRES', timedelta(days=2))
[static]
```

6.1.1.2 JWT_SECRET_KEY

```
app.config.Config.JWT_SECRET_KEY = os.getenv('JWT_SECRET_KEY', 'super-secret-key')  [static]
```

6.1.1.3 SQLALCHEMY_DATABASE_URI

```
app.config.Config.SQLALCHEMY_DATABASE_URI = os.getenv('DATABASE_URL', 'sqlite:///database.db')
[static]
```

6.1.1.4 SQLALCHEMY_TRACK_MODIFICATIONS

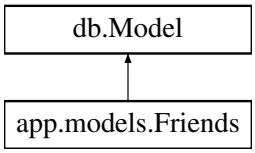
```
bool app.config.Config.SQLALCHEMY_TRACK_MODIFICATIONS = False  [static]
```

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

- config.py

6.2 app.models.Friends Class Reference

Inheritance diagram for app.models.Friends:



Static Public Attributes

- user_id = db.Column(db.Integer, db.ForeignKey('users.id'), primary_key=True)
- friend_id = db.Column(db.Integer, db.ForeignKey('users.id'), primary_key=True)
- created_at = db.Column(db.DateTime, default=datetime.utcnow)
- status = db.Column(db.Enum('pending', 'accepted', 'declined'), default='pending')

6.2.1 Member Data Documentation

6.2.1.1 created_at

```
app.models.Friends.created_at = db.Column(db.DateTime, default=datetime.utcnow)  [static]
```

6.2.1.2 friend_id

```
app.models.Friends.friend_id = db.Column(db.Integer, db.ForeignKey('users.id'), primary_↩
key=True)  [static]
```

6.2.1.3 status

```
app.models.Friends.status = db.Column(db.Enum('pending', 'accepted', 'declined'), default='pending')
[static]
```

6.2.1.4 user_id

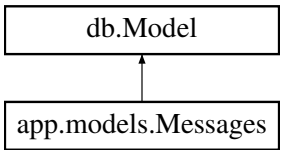
```
app.models.Friends.user_id = db.Column(db.Integer, db.ForeignKey('users.id'), primary_key=True)
[static]
```

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

- models.py

6.3 app.models.Messages Class Reference

Inheritance diagram for app.models.Messages:



Static Public Attributes

- id = db.Column(db.Integer, primary_key=True, autoincrement=True)
- user_id = db.Column(db.Integer, db.ForeignKey('users.id', ondelete='SET NULL'))
- room_id = db.Column(db.Integer, db.ForeignKey('room.id', ondelete='CASCADE'))
- content = db.Column(db.Text, nullable=False)
- message_type = db.Column(db.Enum(MessageType), default=MessageType.TEXT, nullable=False)
- timestamp = db.Column(db.DateTime, default=datetime.utcnow, index=True)
- image_path = db.Column(db.String(255))

6.3.1 Member Data Documentation

6.3.1.1 content

```
app.models.Messages.content = db.Column(db.Text, nullable=False)  [static]
```

6.3.1.2 id

```
app.models.Messages.id = db.Column(db.Integer, primary_key=True, autoincrement=True)  [static]
```

6.3.1.3 image_path

```
app.models.Messages.image_path = db.Column(db.String(255))  [static]
```

6.3.1.4 message_type

```
app.models.Messages.message_type = db.Column(db.Enum(MessageType), default=MessageType.TEXT,
nullable=False)  [static]
```

6.3.1.5 room_id

```
app.models.Messages.room_id = db.Column(db.Integer, db.ForeignKey('room.id', ondelete='CASCADE'))
[static]
```

6.3.1.6 timestamp

```
app.models.Messages.timestamp = db.Column(db.DateTime, default=datetime.utcnow, index=True)
[static]
```

6.3.1.7 user_id

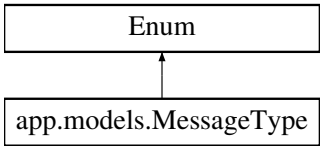
```
app.models.Messages.user_id = db.Column(db.Integer, db.ForeignKey('users.id', ondelete='SET
NULL'))  [static]
```

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

- models.py

6.4 app.models.MessageType Class Reference

Inheritance diagram for app.models.MessageType:



Static Public Attributes

- str TEXT = 'TEXT'
- str IMAGE = 'IMAGE'
- str VIDEO = 'VIDEO'
- str FILE = 'FILE'

6.4.1 Member Data Documentation

6.4.1.1 FILE

```
str app.models.MessageType.FILE = 'FILE'  [static]
```

6.4.1.2 IMAGE

```
str app.models.MessageType.IMAGE = 'IMAGE'  [static]
```

6.4.1.3 TEXT

```
str app.models.MessageType.TEXT = 'TEXT'  [static]
```

6.4.1.4 VIDEO

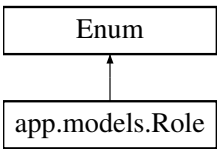
```
str app.models.MessageType.VIDEO = 'VIDEO'  [static]
```

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

- models.py

6.5 app.models.Role Class Reference

Inheritance diagram for app.models.Role:



Static Public Attributes

- str USER = 'USER'
- str ADMIN = 'ADMIN'
- str OWNER = 'OWNER'

6.5.1 Member Data Documentation

6.5.1.1 ADMIN

```
str app.models.Role.ADMIN = 'ADMIN'  [static]
```

6.5.1.2 OWNER

```
str app.models.Role.OWNER = 'OWNER'  [static]
```

6.5.1.3 USER

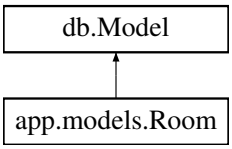
```
str app.models.Role.USER = 'USER'  [static]
```

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

- models.py

6.6 app.models.Room Class Reference

Inheritance diagram for app.models.Room:



Static Public Attributes

- id = db.Column(db.Integer, primary_key=True, autoincrement=True)
- type = db.Column(db.Enum(RoomType), nullable=False)
- name = db.Column(db.String(100), nullable=True)
- description = db.Column(db.Text, nullable=True)
- created_at = db.Column(db.DateTime, default=datetime.utcnow)
- messages = db.relationship('Messages', backref='room', lazy=True, cascade='all, delete-orphan')
- members = db.relationship('Room_Users', backref='room', lazy=True, cascade='all, delete-orphan')

6.6.1 Member Data Documentation

6.6.1.1 created_at

```
app.models.Room.created_at = db.Column(db.DateTime, default=datetime.utcnow)  [static]
```

6.6.1.2 description

```
app.models.Room.description = db.Column(db.Text, nullable=True)  [static]
```

6.6.1.3 id

```
app.models.Room.id = db.Column(db.Integer, primary_key=True, autoincrement=True)  [static]
```

6.6.1.4 members

```
app.models.Room.members = db.relationship('Room_Users', backref='room', lazy=True, cascade='all,
delete-orphan')  [static]
```

6.6.1.5 messages

```
app.models.Room.messages = db.relationship('Messages', backref='room', lazy=True, cascade='all,
delete-orphan')  [static]
```

6.6.1.6 name

```
app.models.Room.name = db.Column(db.String(100), nullable=True)  [static]
```

6.6.1.7 type

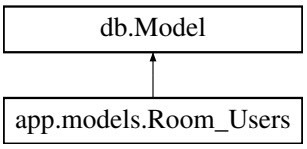
```
app.models.Room.type = db.Column(db.Enum(RoomType), nullable=False)  [static]
```

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

- models.py

6.7 app.models.Room_Users Class Reference

Inheritance diagram for app.models.Room_Users:



Static Public Attributes

- room_id = db.Column(db.Integer, db.ForeignKey('room.id', ondelete='CASCADE'), primary_key=True)
- user_id = db.Column(db.Integer, db.ForeignKey('users.id', ondelete='CASCADE'), primary_key=True)
- role = db.Column(db.Enum(Role), default=Role.USER, nullable=False)
- joined_at = db.Column(db.DateTime, default=datetime.utcnow)

6.7.1 Member Data Documentation

6.7.1.1 joined_at

```
app.models.Room_Users.joined_at = db.Column(db.DateTime, default=datetime.utcnow)  [static]
```

6.7.1.2 role

```
app.models.Room_Users.role = db.Column(db.Enum(Role), default=Role.USER, nullable=False)  [static]
```

6.7.1.3 room_id

```
app.models.Room_Users.room_id = db.Column(db.Integer, db.ForeignKey('room.id', ondelete='CASCADE'),
primary_key=True)  [static]
```

6.7.1.4 user_id

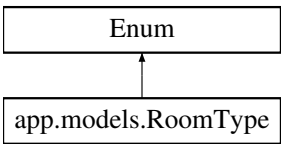
```
app.models.Room_Users.user_id = db.Column(db.Integer, db.ForeignKey('users.id', ondelete='CASCADE'),
primary_key=True)  [static]
```

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

- models.py

6.8 app.models.RoomType Class Reference

Inheritance diagram for app.models.RoomType:



Static Public Attributes

- str PRIVATE = 'PRIVATE'
- str GROUP = 'GROUP'

6.8.1 Member Data Documentation

6.8.1.1 GROUP

```
str app.models.RoomType.GROUP = 'GROUP'  [static]
```

6.8.1.2 PRIVATE

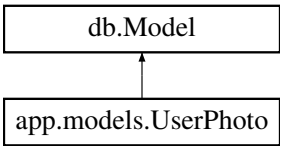
```
str app.models.RoomType.PRIVATE = 'PRIVATE'  [static]
```

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

- models.py

6.9 app.models.UserPhoto Class Reference

Inheritance diagram for app.models.UserPhoto:



Static Public Attributes

- id = db.Column(db.Integer, primary_key=True)
- user_id = db.Column(db.Integer, db.ForeignKey('users.id'), nullable=False)
- photo_path = db.Column(db.String(255), nullable=False)
- is_profile = db.Column(db.Boolean, default=False)
- created_at = db.Column(db.DateTime, default=datetime.utcnow)

6.9.1 Member Data Documentation

6.9.1.1 created_at

```
app.models.UserPhoto.created_at = db.Column(db.DateTime, default=datetime.utcnow)  [static]
```

6.9.1.2 id

```
app.models.UserPhoto.id = db.Column(db.Integer, primary_key=True)  [static]
```

6.9.1.3 is_profile

```
app.models.UserPhoto.is_profile = db.Column(db.Boolean, default=False)  [static]
```

6.9.1.4 photo_path

```
app.models.UserPhoto.photo_path = db.Column(db.String(255), nullable=False)  [static]
```

6.9.1.5 user_id

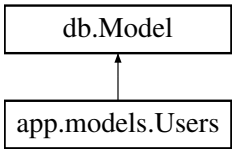
```
app.models.UserPhoto.user_id = db.Column(db.Integer, db.ForeignKey('users.id'), nullable=False)
[static]
```

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

- models.py

6.10 app.models.Users Class Reference

Inheritance diagram for app.models.Users:



Public Member Functions

- __repr__ (self)

Static Public Attributes

- id = db.Column(db.Integer, primary_key=True, autoincrement=True)
- email = db.Column(db.String(254), unique=True, nullable=False, index=True)
- name = db.Column(db.String(50), nullable=False)
- surname = db.Column(db.String(50), nullable=False)
- phone = db.Column(db.String(20), nullable=True)
- address = db.Column(db.String(100), nullable=True)
- facebook = db.Column(db.String(50), nullable=True)
- instagram = db.Column(db.String(50), nullable=True)
- linkedin = db.Column(db.String(50), nullable=True)
- password = db.Column(db.String(128), nullable=False)
- is_active = db.Column(db.Boolean, default=True)
- about_me = db.Column(db.TEXT(250), nullable=True)
- photos = db.relationship('UserPhoto', backref='user', lazy=True)
- created_at = db.Column(db.DateTime, default=db.func.current_timestamp())
- updated_at = db.Column(db.DateTime, default=db.func.current_timestamp(), onupdate=db.func.current_↩ timestamp())
- friends

6.10.1 Member Function Documentation

6.10.1.1 __repr__()

```
app.models.Users.__repr__ (
              self)
```

6.10.2 Member Data Documentation

6.10.2.1 about_me

```
app.models.Users.about_me = db.Column(db.TEXT(250), nullable=True)  [static]
```

6.10.2.2 address

```
app.models.Users.address = db.Column(db.String(100), nullable=True)  [static]
```

6.10.2.3 created_at

```
app.models.Users.created_at = db.Column(db.DateTime, default=db.func.current_timestamp())
[static]
```

6.10.2.4 email

app.models.Users.email = db.Column(db.String(254), unique=True, nullable=False, index=True) [static]

6.10.2.5 facebook

app.models.Users.facebook = db.Column(db.String(50), nullable=True) [static]

6.10.2.6 friends

app.models.Users.friends [static]

Initial value:

```
=  db.relationship(
        'Users',
        secondary='friends',
        primaryjoin=(id == Friends.user_id),
        secondaryjoin=(id == Friends.friend_id),
        backref='friends_back',
        lazy='dynamic'
    )
```

6.10.2.7 id

app.models.Users.id = db.Column(db.Integer, primary_key=True, autoincrement=True) [static]

6.10.2.8 instagram

app.models.Users.instagram = db.Column(db.String(50), nullable=True) [static]

6.10.2.9 is_active

app.models.Users.is_active = db.Column(db.Boolean, default=True) [static]

6.10.2.10 linkedin

app.models.Users.linkedin = db.Column(db.String(50), nullable=True) [static]

6.10.2.11 name

app.models.Users.name = db.Column(db.String(50), nullable=False) [static]

6.10.2.12 password

app.models.Users.password = db.Column(db.String(128), nullable=False) [static]

6.10.2.13 phone

```
app.models.Users.phone = db.Column(db.String(20), nullable=True)  [static]
```

6.10.2.14 photos

```
app.models.Users.photos = db.relationship('UserPhoto', backref='user', lazy=True)  [static]
```

6.10.2.15 surname

```
app.models.Users.surname = db.Column(db.String(50), nullable=False)  [static]
```

6.10.2.16 updated_at

```
app.models.Users.updated_at = db.Column(db.DateTime, default=db.func.current_timestamp(),
onupdate=db.func.current_timestamp())  [static]
```

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

- models.py

Chapter 7

File Documentation

7.1 __init__.py File Reference

Namespaces

- namespace app

Functions

- app.create_app ()

Variables

- app.db = SQLAlchemy()
- app.jwt = JWTManager()
- app.socketio = SocketIO(cors_allowed_origins="*", async_mode="threading")

7.2 config.py File Reference

Classes

- class app.config.Config

Namespaces

- namespace app
- namespace app.config

7.3 models.py File Reference

Classes

- class app.models.MessageType
- class app.models.RoomType
- class app.models.Role
- class app.models.Friends
- class app.models.Users
- class app.models.UserPhoto
- class app.models.Room
- class app.models.Room_Users
- class app.models.Messages

Namespaces

- namespace app
- namespace app.models

7.4 sockets.py File Reference

Namespaces

- namespace app
- namespace app.sockets

Functions

- app.sockets.register_socket_handlers (socketio)

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