Vailakis Apostolos Nikolaos

Spyridakis Christos

Portreto

Kalogerakis Stefanos

Overview

Mongo

Django

Zookeeper

Bootstrap

How it works?

Python

Web Service

Models used:

- User
- Gallery
- GalleryReaction
- Photo
- PhotoReaction
- GalleryComment
- PhotoComment
- Follow
- Profile

Basic Libraries

- Requests

- Pillow

- Bootstrap3.3.6

- django-crispy-forms

How it works?

Python

API

- HTTP POST /create/user/
  {"username": "", "password": ""}

- HTTP POST /auth/user/
  {"username": "", "password": ""}

Basic Libraries

- PyCrypto → PyCryptodome

- PyJWT

Models used:
- Django's User

Authentication Service

JSON Web Token

{

    "iss": "Authentication-Service",
    "aud": "app",
    "exp": 1560795741,
    "admin": false,
    "permissions": ["read","write"],

    "Username":
            "uAP9eegFqiCruc47Bjlf92TeS47OULE4Fr3vbtcTp+s=",

    "Uid":
            "0Ct/wBSVGVmwFqD0q9+Zo6MxnGqiC9X42O6PCNAnO10=",

     "Token-id":
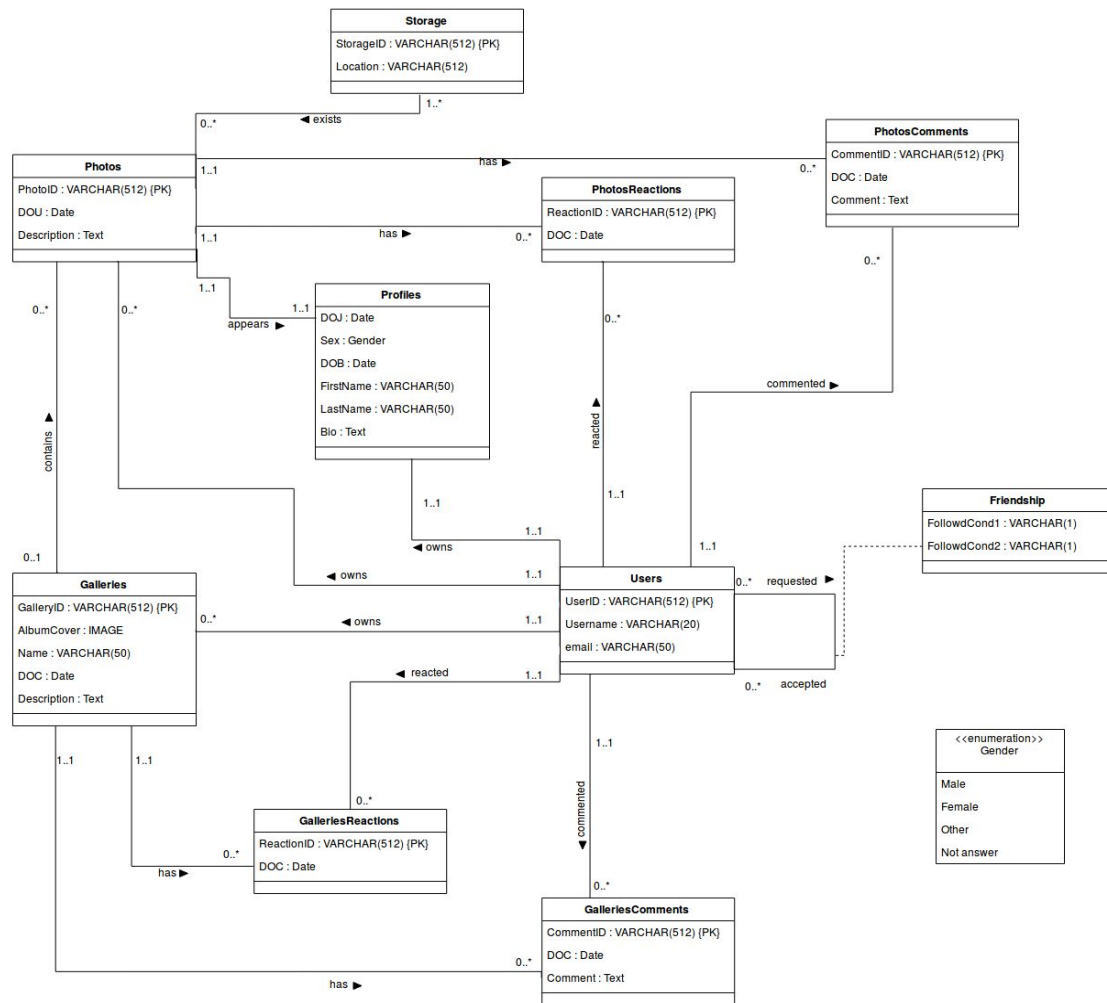   "iX+qxUZS5zUTUN9BLu4bUZq4X+X/aTouH/iedu9uePA=",

}

Application Service

PORTRETO REST API

Description	URL				owner	user requesting	id of gallery	id of photo	search query
galleries	/api	/basic	/galleries		user	requser			
gallery by id	/api	/basic	/galleries	/<id>		requser			
gallery reactions	/api	/basic	/gallery_reactions		user	requser	galleryid		
gallery reaction by id	/api	/basic	/gallery_reactions	/<id>		requser			
photos	/api	/basic	/photos		user	requser	galleryid		
photo by id	/api	/basic	/photos	/<id>		requser			
photo reactions	/api	/basic	/photo_reactions		user	requser		photoid	
photoreaction by id	/api	/basic	/photo_reactions	/<id>		requser			
gallery comments	/api	/basic	/gallery_comments		user	requser	galleryid		
gallery comment by id	/api	/basic	/gallery_comments	/<id>		requser			
photo comments	/api	/basic	/photo_comments		user	requser		photoid	
photo comment by id	/api	/basic	/photo_comments	/<id>		requser			
follows	/api	/basic	/follows						
follows by id	/api	/basic	/follows	/<id>		requser			
profiles	/api	/basic	/profile		user				
profile by id	/api	/basic	/profile	/<id>					
users	/api	/basic	/users		user				
user by id	/api	/basic	/users	/<id>					
galleries shared to requser	/api	/advanced	/shared_galleries			requser			
followers of user	/api	/advanced	/followers		user				
profiles of followers of users	/api	/advanced	/followers_profiles		user				
users the "user" is following	/api	/advanced	/following		user				
profiles of users the "user" is following	/api	/advanced	/following_profiles		user				

UML
Diagram

Zookeeper + Files Storages
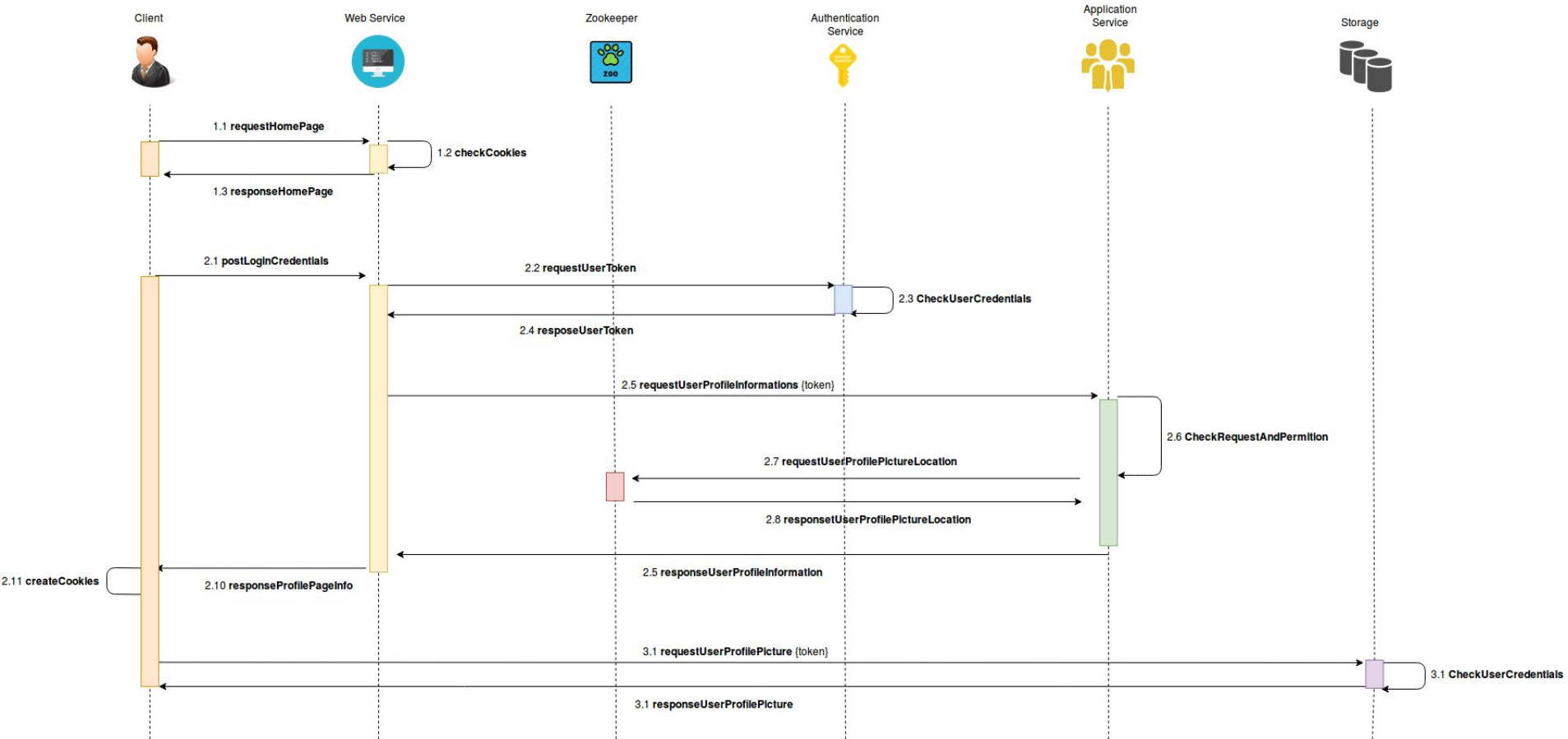
Docker

Login

Client | Web Service | Zookeeper | Authentication Service | Application Service | Storage

1.1 **requestHomePage**

1.2 **checkCookies**

1.3 **responseHomePage**

2.1 **postLoginCredentials**

2.2 **requestUserToken**

2.3 **CheckUserCredentials**

2.4 **resposeUserToken**

2.5 **requestUserProfileInformations** {token}

2.6 **CheckRequestAndPermition**

2.7 **requestUserProfilePictureLocation**

2.8 **responsetUserProfilePictureLocation**

2.5 **responseUserProfileInformation**

2.11 **createCookies**

2.10 **responseProfilePageInfo**

3.1 **requestUserProfilePicture** {token}

3.1 **CheckUserCredentials**

3.1 **responseUserProfilePicture**

DEMO

Thanks!

Any questions?

CREDITS

Special thanks to all the people who made and released these awesome resources for free:

➔ Presentation template by SlidesCarnival
➔ Photographs by Death to the Stock Photo (license)