

Scalagram

Instagram clone for sharing memes about Scala :P

Infrastructure

- Technologies:
 1. Apache Pulsar (Astra stream) for jobs processing
 2. Postgres as database
 3. Play Framework for API endpoint implementation (REST)
 4. Redis for session storage

Main microservices

- UserService

1. Insert user
2. Get user info
3. Log In by username or email
4. Confirm user (by email)
5. Token validation for restricted actions
6. Change password, email, phone
7. Regenerate/resend confirmation code
8. Renew Token
9. Store user session

Main microservices

- ProfileService

1. Insert/update profile info: name, website, bio
2. Get profile info

Main microservices

- FeedService

1. Follow/unfollow users
2. Get latest feed posts from following users (by time ordering)
3. Get user's own posts
4. Filter posts by tags

Main microservices

- PostService
 1. Create post with image, description and tags
 2. How to publish to all followers feeds? (Scalability Challenge)

Roadmap

- UserService: October 20 and October 21 (2 days)
- PostService: October 22 and October 23 (2 days)
- ProfileService and FeedService: October 24 to October 27 (4 days)
- FrontEnd prototype of login and feed in Flutter and test of at least one API: October 28 and October 29 (2 days)