

Project: Git issues filtered by label

## **Project Git issues filtered by label**

### **Project goal:**

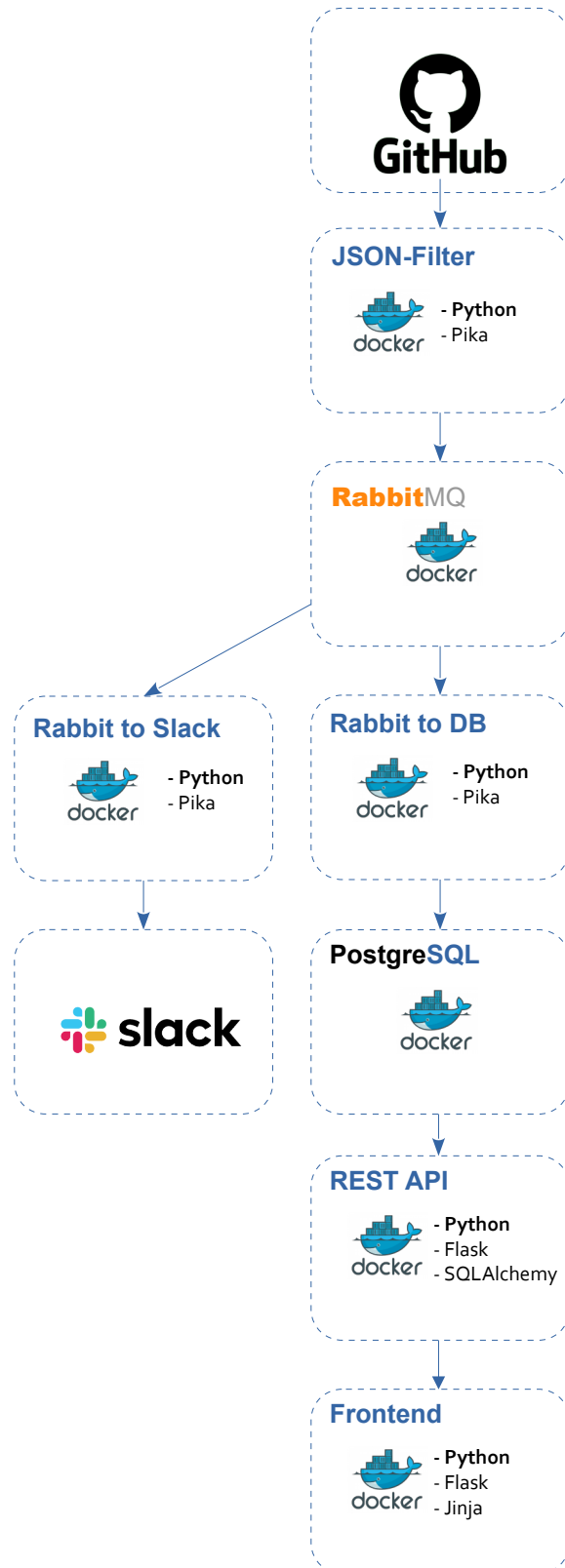
Git “Issues” filter by label and output to web site and messenger

### **Technical requirement:**

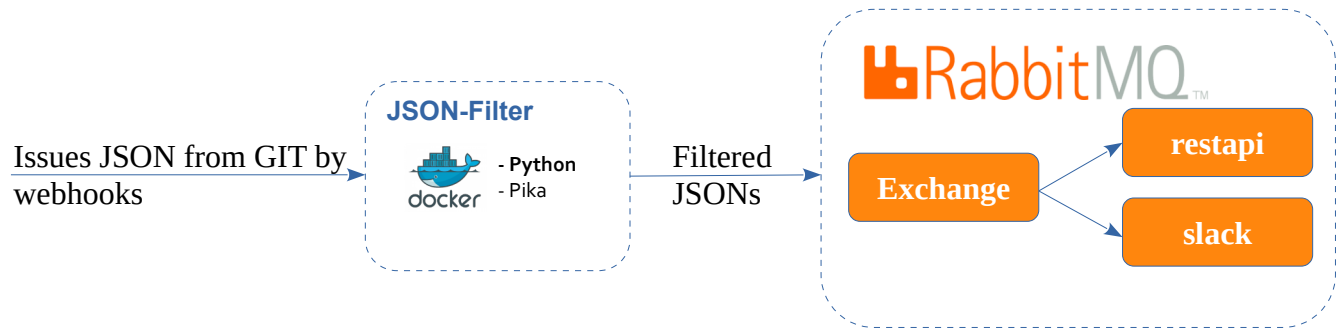
- The project should consist of microservices that run on the same server as service.
- Technology stack:
  - GitHub;
  - Python;
  - Flask (Pika, SQLAlchemy, Jinja);
  - PostgreSQL;
  - RabbitMQ;
  - Docker;
  - CentOS;
  - Ansible;
  - Google Cloud Platform.

Project: Git issues filtered by label

## Structural scheme:



## Block interaction between the JSON Filter and RabbitMQ



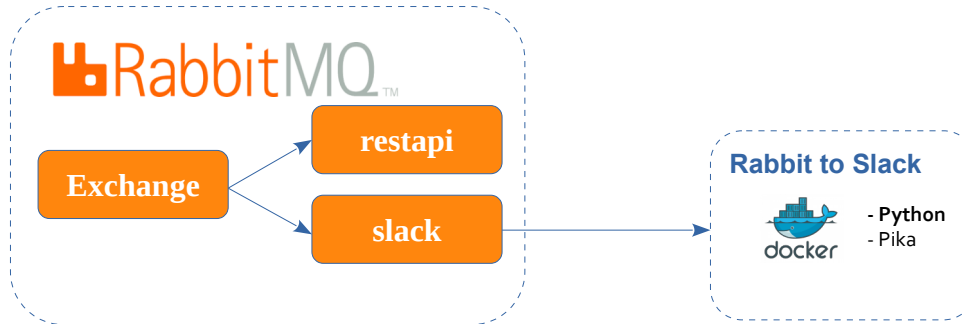
JSON data that is generated in the JSON-Filter and transmitted to the RabbitMQ

```
{
  "action": "opened",
  "issue": {
    "html_url": "https://github.com/Mary1509/Practice3/issues/8",
    "id": 952053779,
    "number": 8,
    "state": "open",
    "title": "oop",
    "body": "kkk",
    "user": {
      "login": "Mary1509",
      "html_url": "https://github.com/Mary1509",
      "avatar_url": "https://avatars.githubusercontent.com/u/54399719?v=4"
    }
  },
  "labels": [
    {
      "name": "bug"
    },
    {
      "name": "duplicate"
    },
    {
      "name": "invalid"
    },
    {
      "name": "question"
    }
  ],
  "data": "2021-07-19T19:26:36Z",
  "repository": {
    "name": "Practice3",
    "html_url": "https://github.com/Mary1509/Practice3"
  }
}
```

```
{
  "action": "labeled",
  "issue": {
    "id": 952053779,
    "state": "closed",
    "user": {
      "login": "Mary1509",
      "html_url": "https://github.com/Mary1509",
      "avatar_url": "https://avatars.githubusercontent.com/u/54399719?v=4"
    }
  },
  "data": "2021-07-19T19:26:36Z"
}
```

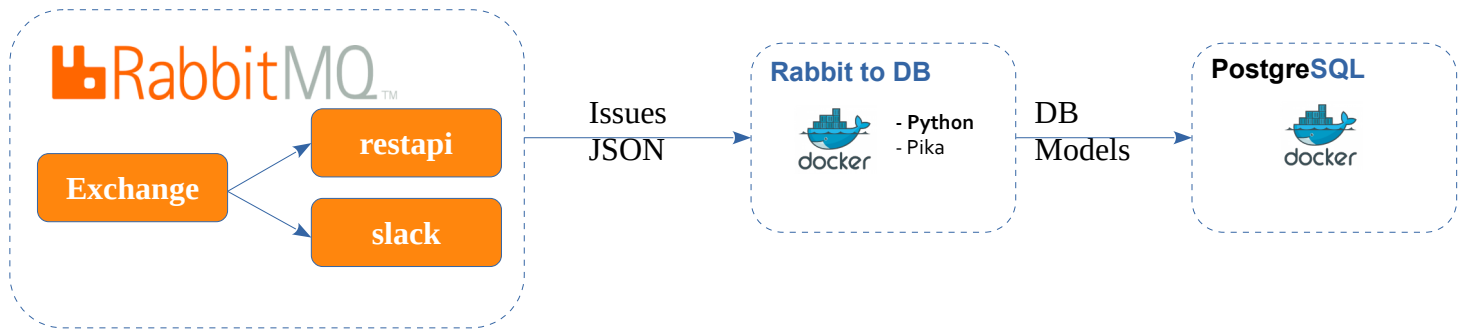
Project: Git issues filtered by label

## **Block interaction between the RabbitMQ and Rabbit to Slack**

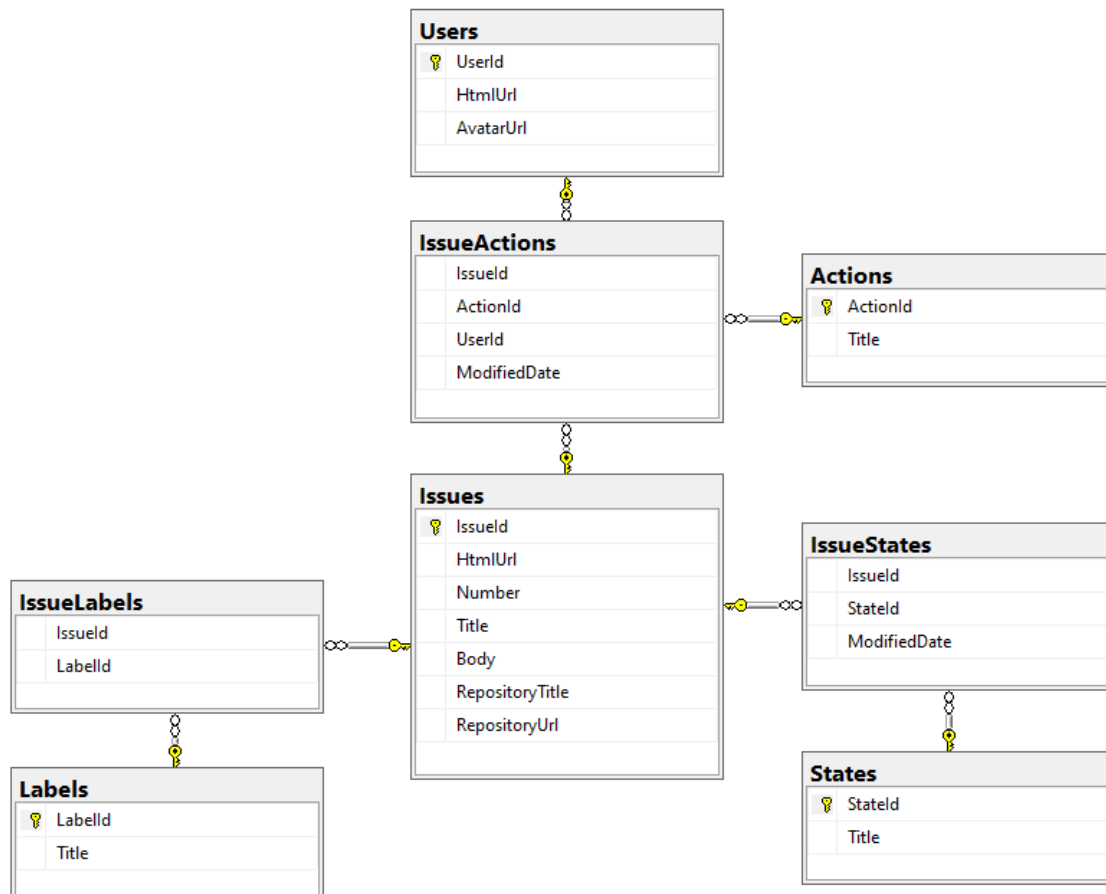


Project: Git issues filtered by label

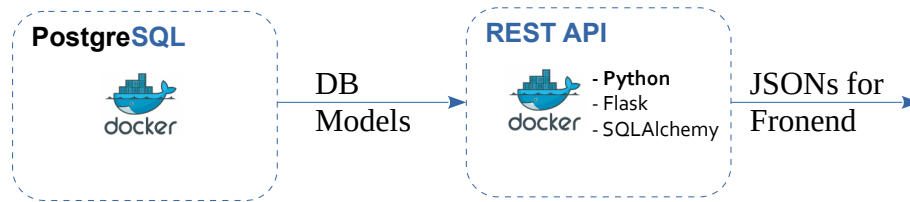
## Block interaction between the RabbitMQ, Rabbit to DB and PostgreSQL



## Database Diagram



## Block interaction between the PostgreSQL and REST API



Examples of requests and JSON that are returned.

GET - /issues/by-label/<label> - Get issues by label  
http://127.0.0.1:5000/issues/by-label/Bug%20report

```
[
  {
    "Action": "opened",
    "Issue": "Third issue title",
    "IssueHtmlUrl": "https://github.com/Mary1509/Practice3/issues/3",
    "IssueId": 944298295,
    "ModifiedDate": "Wed, 14 Jul 2021 09:03:03 GMT",
    "State": "open",
    "UserAvatarUrl": "https://avatars.githubusercontent.com/u/54399719?v=4",
    "UserHtmlUrl": "https://github.com/Mary1509",
    "UserId": "Mary1509"
  },
]
```

GET - /issues/ - Get all issues  
http://127.0.0.1:5000/issues/

```
[
  {
    "Body": "Comment here",
    "HtmlUrl": "https://github.com/Mary1509/Practice3/issues/3",
    "IssueId": 944298295,
    "Number": 3,
    "Title": "Third issue title"
  },
]
```

GET - /issues/by-id/<int:id> - Get issues by id  
http://127.0.0.1:5000/issues/by-id/944298295

```
[
  {
    "Action": "opened",
    "Issue": "Third issue title",
    "IssueHtmlUrl": "https://github.com/Mary1509/Practice3/issues/3",
    "IssueId": 944298295,
    "ModifiedDate": "Wed, 14 Jul 2021 09:03:03 GMT",
    "State": "open",
    "UserAvatarUrl": "https://avatars.githubusercontent.com/u/54399719?v=4",
    "UserHtmlUrl": "https://github.com/Mary1509",
    "UserId": "Mary1509"
  },
]
```

```
    "UserHtmlUrl": "https://github.com/Mary1509",
    "UserId": "Mary1509"
  },
]
```

GET - /labels/ - Get all labels  
http://127.0.0.1:5000/labels/

```
[
  {
    "LabelId": 1,
    "Title": "User story"
  },
]
```

GET - /states/ - Get all states  
http://127.0.0.1:5000/states/

```
[
  {
    "StateId": 1,
    "Title": "open"
  },
]
```

GET - /actions/ - Get all actions  
http://127.0.0.1:5000/actions/

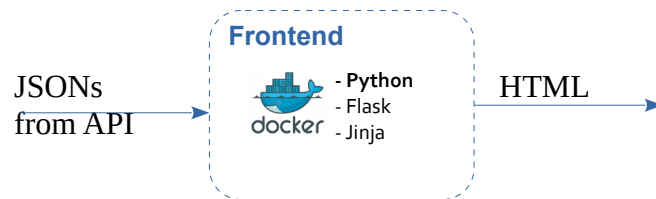
```
[
  {
    "ActionId": 1,
    "Title": "opened"
  },
]
```

GET - /users/ - Get all users  
http://127.0.0.1:5000/users/

```
[
  {
    "AvatarUrl": "https://avatars.githubusercontent.com/u/54399719?v=4",
    "HtmlUrl": "https://github.com/Mary1509",
    "UserId": "Mary1509"
  },
]
```

Project: Git issues filtered by label

## Frontend



34.89.174.136:55000/issues/

# Kv-DevOps-094

HOME BUG REPORT TEST CASE USER STORY

## Welcome to Kv-DevOps-094!

Show 10 entries Search:

Issuelid	Body	Number	Title	HtmlUrl
964796423	test US	10	User story No 1	https://github.com/Kv-DevOps-094/frontend/issues/10
964811703	test case	11	Test case 1	https://github.com/Kv-DevOps-094/frontend/issues/11
964812208	find very strength bug	12	Bug	https://github.com/Kv-DevOps-094/frontend/issues/12
964812515	Bug and Test	13	Bug and Test	https://github.com/Kv-DevOps-094/frontend/issues/13
964813005	None	14	3 Labels	https://github.com/Kv-DevOps-094/frontend/issues/14
964814271	find one more bug, fix please	15	Another bug	https://github.com/Kv-DevOps-094/frontend/issues/15

Showing 1 to 6 of 6 entries Previous 1 Next



34.89.174.136:55000/issues/by-label/testcase

# Kv-DevOps-094

HOME BUG REPORT TEST CASE USER STORY

## Welcome to Kv-DevOps-094!

Show 10 entries Search:

Action	Issue	IssueHtmlUrl	Issuelid	ModifiedDate	State	UserAvatarUrl	UserHtmlUrl	UserId
labeled	Bug and Test	https://github.com/Kv-DevOps-094/frontend/issues/13	964812515	Tue, 10 Aug 2021 10:07:00 GMT	open		https://github.com/oleksihead	oleksihead
labeled	Bug and Test	https://github.com/Kv-DevOps-094/frontend/issues/13	964812515	Tue, 10 Aug 2021 10:07:00 GMT	open		https://github.com/oleksihead	oleksihead

## Project: Git issues filtered by label



34.89.174.136:55000/issues/by-label/bug

Kv-DevOps-094

HOMEBUG REPORTTEST CASEUSER STORY

Welcome to Kv-DevOps-094!

Show 10 entriesSearch:

Action	Issue	IssueHtmlUrl	IssuelId	ModifiedDate	State	UserAvatarUrl	UserHtmlUrl	UserId
closed	Another bug	https://github.com/Kv-DevOps-094/frontend/issues/15	964814271	Tue, 10 Aug 2021 10:08:53 GMT	open		https://github.com/oleksihead	oleksihead
closed	Another bug	https://github.com/Kv-DevOps-094/frontend/issues/15	964814271	Tue, 10 Aug 2021 10:08:53 GMT	open		https://github.com/oleksihead	oleksihead

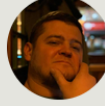

34.89.174.136:55000/issues/by-label/userstory

Kv-DevOps-094

HOMEBUG REPORTTEST CASEUSER STORY

Welcome to Kv-DevOps-094!

Show 10 entriesSearch:

Action	Issue	IssueHtmlUrl	IssuelId	ModifiedDate	State	UserAvatarUrl	UserHtmlUrl	UserId
labeled	User strory No 1	https://github.com/Kv-DevOps-094/frontend/issues/10	964796423	Tue, 10 Aug 2021 09:49:36 GMT	open		https://github.com/oleksihead	oleksihead
labeled	User strory No 1	https://github.com/Kv-DevOps-094/frontend/issues/10	964796423	Tue, 10 Aug 2021 09:49:36 GMT	open		https://github.com/oleksihead	oleksihead



Project: Git issues filtered by label

## Infrastructure

The infrastructure consists of one GSP Instance (e2-micro) with CentOS.  
Docker containers are loaded from DockerHub and run as services.

