

Project: Git issues filtered by label

Project Git issues filtered by label

Project goal:

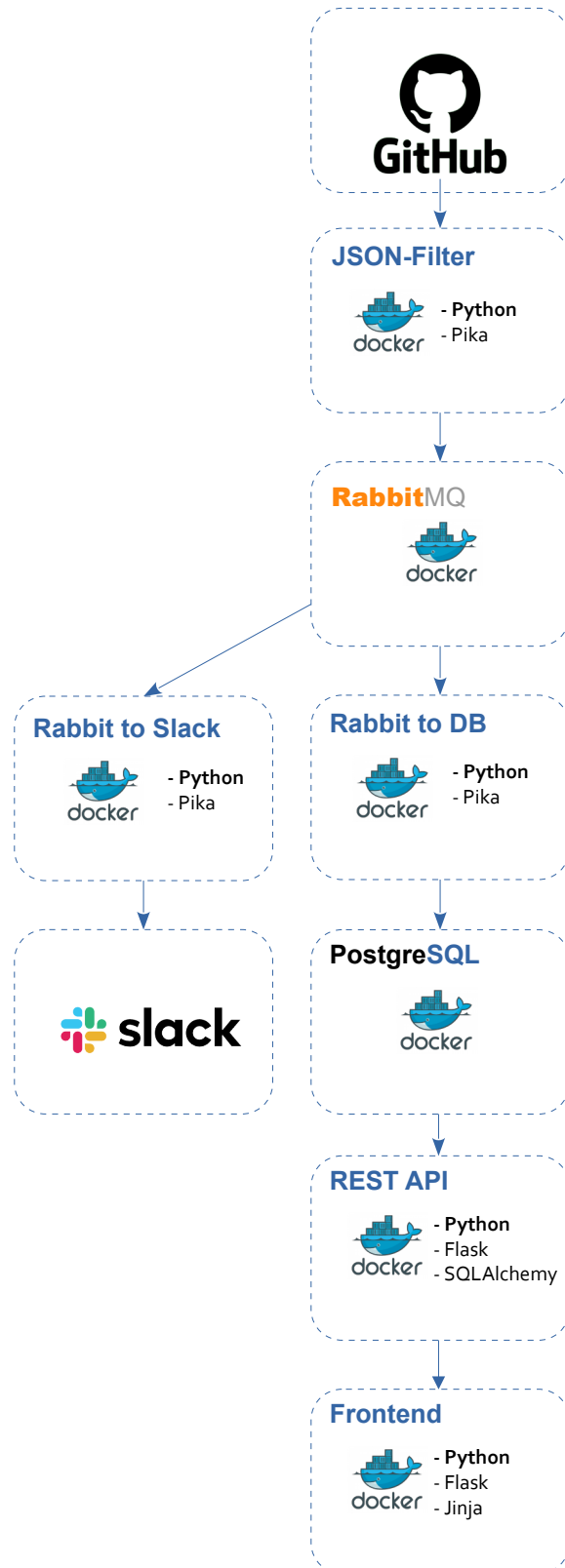
Git “Issues” filter by label and output to web site and Slack messenger

Technical requirement:

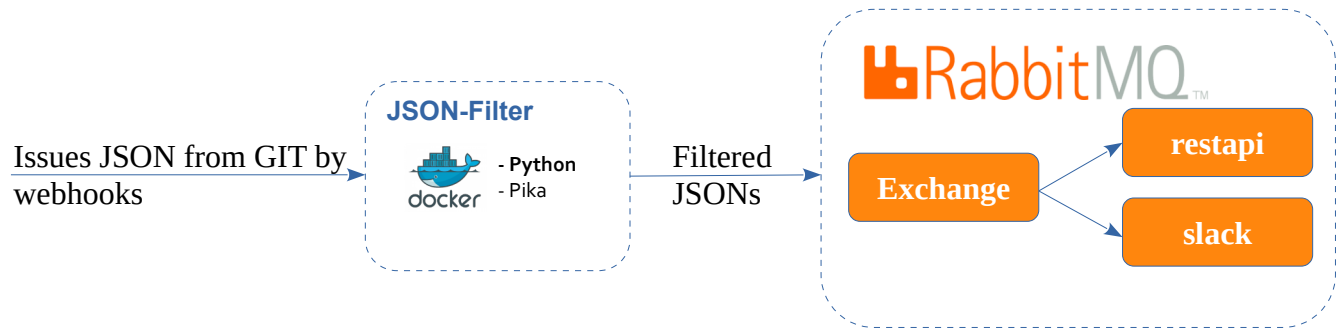
- The project should consist of microservices that run on the same server with help of docker-compose.
- Technology stack:
 - GitHub;
 - Python;
 - Flask (Pika, SQLAlchemy, Jinja);
 - PostgreSQL;
 - RabbitMQ;
 - Docker;
 - CentOS;
 - Ansible;
 - Google Cloud Platform.
 - Terraform

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Structural scheme:



Block interaction between the JSON Filter and RabbitMQ



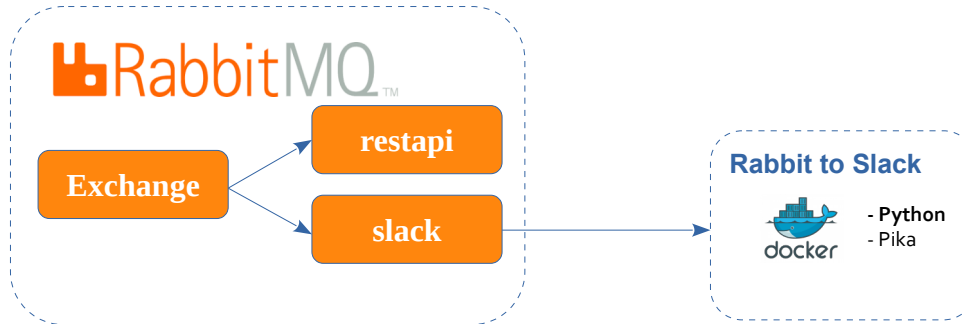
JSON data that is generated in the JSON-Filter and transmitted to the RabbitMQ

```
{
  "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"
}
```

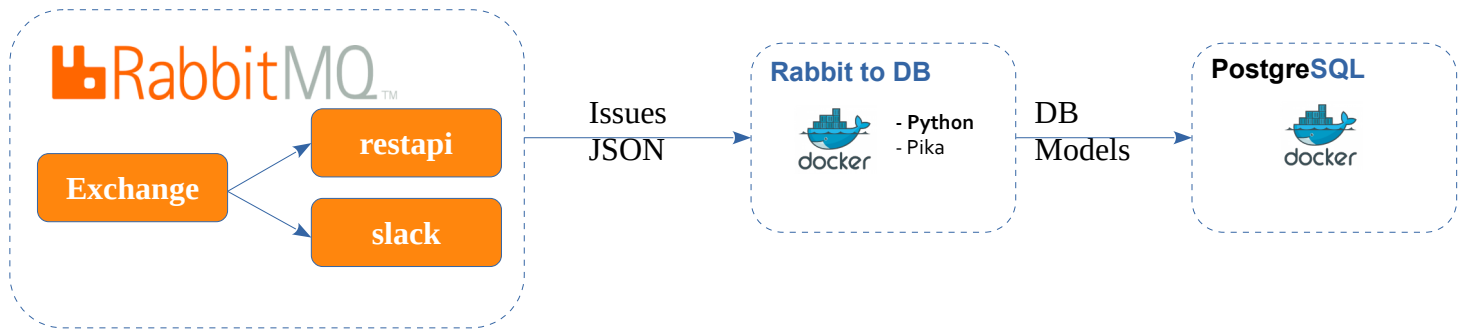
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Block interaction between the RabbitMQ and Rabbit to Slack

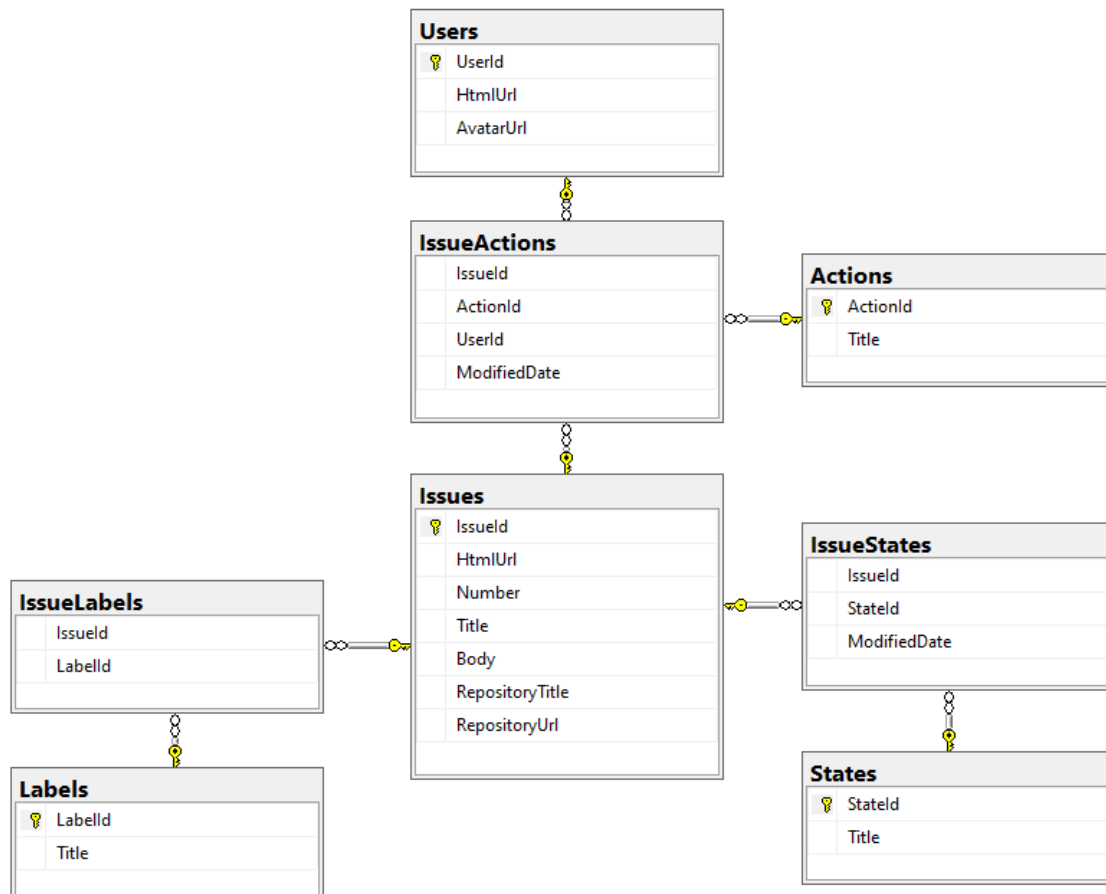


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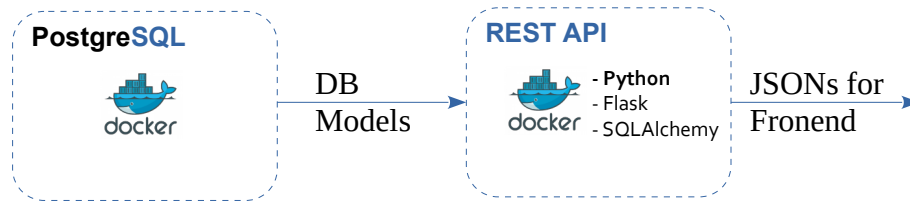
Block interaction between the RabbitMQ, Rabbit to DB and PostgreSQL



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/

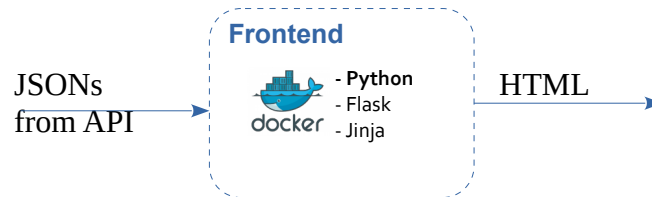
```
[
  {
    "ActionId": 1,
    "Title": "opened"
  },
]
```

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"
  },
]
```

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Frontend



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Search:

Issuelid	Body	Number	Title	HtmlUrl
1077901824	None	90	testcase123	https://github.com/DevOps-Kv-116/rest-api/issues/90
1077902038	None	91	userstory	https://github.com/DevOps-Kv-116/rest-api/issues/91
1077902470	None	92	bugreport	https://github.com/DevOps-Kv-116/rest-api/issues/92

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Search:

Action	Issue	IssueHtmlUrl	Issuelid	ModifiedDate	State	UserAvatarUrl	UserHtmlUrl	Userid
labeled	bugreport	https://github.com/DevOps-Kv-116/rest-api/issues/92	1077902470	Sun, 12 Dec 2021 20:37:14 GMT	open		https://github.com/AnnaDob	AnnaDob
opened	bugreport	https://github.com/DevOps-Kv-116/rest-api/issues/92	1077902470	Sun, 12 Dec 2021 20:37:14 GMT	open		https://github.com/AnnaDob	AnnaDob

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Search:

Action ↑↓	Issue ↑↓	IssueHtmlUrl ↑↓	IssueId ↑↓	ModifiedDate ↑↓	State ↑↓	UserAvatarUrl ↑↓	UserHtmlUrl ↑↓	UserId ↑↓
labeled	testcase123	https://github.com/DevOps-Kv-116/rest-api/issues/90	1077901824	Sun, 12 Dec 2021 20:34:06 GMT	open		https://github.com/AnnaDob	AnnaDob
opened	testcase123	https://github.com/DevOps-Kv-116/rest-api/issues/90	1077901824	Sun, 12 Dec 2021 20:34:06 GMT	open		https://github.com/AnnaDob	AnnaDob

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Search:

Action ↑↓	Issue ↑↓	IssueHtmlUrl ↑↓	IssueId ↑↓	ModifiedDate ↑↓	State ↑↓	UserAvatarUrl ↑↓	UserHtmlUrl ↑↓	UserId ↑↓
labeled	userstory	https://github.com/DevOps-Kv-116/rest-api/issues/91	1077902038	Sun, 12 Dec 2021 20:35:11 GMT	open		https://github.com/AnnaDob	AnnaDob
opened	userstory	https://github.com/DevOps-Kv-116/rest-api/issues/91	1077902038	Sun, 12 Dec 2021 20:35:11 GMT	open		https://github.com/AnnaDob	AnnaDob

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Infrastructure

The infrastructure consists of one GSP Instance (e2-micro) with CentOS.
We run microservices with help of docker-compose

