

TODO app on top of Forgejo

Jos van den Oever

**TO
DO** forgejo

TODO apps, do they work?



- unpack boxes
- assemble window panes
- isolate attic
- fosdem talk

Desirable features

- Notes
- Collaborative
- Attach pictures
- Add links
- Priorities
- Deadline
- Dependencies
- Multiple devices
- Nice mobile interface
- Easy to use
- Labels / tags
- Kanban
- Timeline / Change tracking
- Releases dopamine
- Low maintenance

Possible choices

- Todo.txt
- VTODO iCalender
- NextCloud Tasks
- OpenProject
- TaskWarrior
- Reinvent the wheel

Why not a code forge?

- Most code forges have all the desired features

Talk about **issues** instead of **tasks**

- And they have API support
- Which code forge?

Which code forge?

- Microsoft GitHub Closed big tech
- GitLab Good, but heavy
- SourceHut Complicated
- Gitea / Forgejo Almost ideal

Stop using GitHub!



If you continue to use GitHub

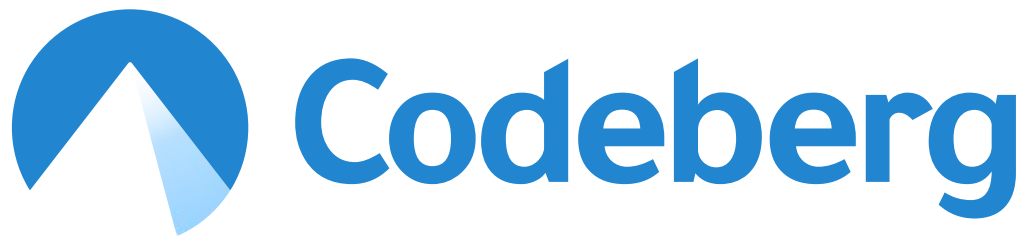
- you are using closed source
- you agree with bad terms of service
- you are part of a bad network effect
- you do product placement for Microsoft
- you teach people not to care about software freedom

What is Forgejo?

- Code forge
- Written in Go
- Forked from Gitea
- Easy to host

My relation with Forgejo

- Just a user and big fan
- Use it at
 - NLnet
 - home
 - Codeberg






- Non-profit for collaborating on FOSS
- Runs on Forgejo
- Hosts Forgejo code
- Member organization
- Easy to import from other forges











Buy milk #1


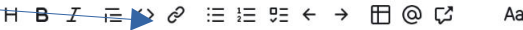
Edit New issue

Closed opened last week by jos · 0 comments

 jos commented last week Owner  

No description provided.

-   jos closed this issue 6 days ago
-   jos reopened this issue 6 days ago
-   jos changed title from Buy milk to Buy milk! 6 days ago
-   jos changed title from Buy milk! to Buy milk 6 days ago
-   jos closed this issue 6 days ago


 Write Preview 

Leave a comment


Drop files or click here to upload.

Reopen Comment


No Branch/Taq specified

Labels 


No labels

Milestone 

No milestone


Projects 

No project

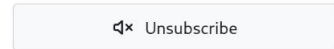
Assignees 

No assignees – [Assign to me](#)

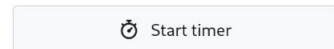
1 participant

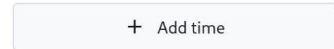


Notifications





Time tracker





Due date

No due date set.

mm / dd / yyyy  

Dependencies

No dependencies set.

- Notes
- Collaborative
- Attach pictures
- Add links
- Priorities
- Deadline
- Dependencies
- Multiple devices

- Nice mobile interface
- Easy to use
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Forgejo: Beyond coding. We Forge.

A painless, self-hosted Git service



Easy to install

Simply **run the binary** for your platform, ship it with **Docker**, or get it **packaged**.



Cross-platform

Forgejo is confirmed to run on libre operating systems like Linux and FreeBSD, as well as different CPU architectures. Choose the one you love!



Lightweight

Forgejo has low minimal requirements and can run on an inexpensive Raspberry Pi. Save your machine energy!



Open Source

Go get **Forgejo!** Join us by **contributing** to make this project even better. Don't be shy to be a contributor!

API

Forgejo API

14.0.0

OAS 2.0

[Base URL: /api/v1]

This documentation describes the Forgejo API.

This file is distributed under the MIT license for the purpose of interoperability

Schemes

HTTPS

Authorize

**activitypub****admin****miscellaneous****notification****organization****package****issue****repository****settings****user**

Models



Let's code a TODO PWA

<https://codeberg.org/vandenoever/fosdem2026todo>

<https://fosdem2026todo.vandenoever.info>

HTML, JavaScript, JSON, and SVG

Serve from a static web server

Install on Android or iOS without app store



```
"/user": {
  "get": {
    "produces": ["application/json"],
    "tags": ["user"],
    "summary": "Get the authenticated user",
    "operationId": "userGetCurrent",
    "responses": {
      "200": {
        "$ref": "#/responses/User"
      },
      "401": {
        "$ref": "#/responses/unauthorized"
      },
      "403": {
        "$ref": "#/responses/forbidden"
      }
    }
  }
},
},
```

```
"/users/{username}/tokens": {
  "post": {
    "consumes": ["application/json"],
    "produces": ["application/json"],
    "tags": ["user"],
    "summary": "Generate an access token for the specified user",
    "operationId": "userCreateToken",
    "parameters": [
      {
        "type": "string",
        "description": "username of user",
        "name": "username",
        "in": "path",
        "required": true
      },
      {
        "name": "body",
        "in": "body",
        "schema": {
          "$ref": "#/definitions/CreateAccessTokenOption"
        }
      }
    ],
    "responses": {
      "201": {
        "$ref": "#/responses/AccessToken"
      },
      "400": {
        "$ref": "#/responses/error"
      },
      "403": {

```

```
"/repos/search": {
  "get": {
    "produces": ["application/json"],
    "tags": ["repository"],
    "summary": "Search for repositories",
    "operationId": "repoSearch",
    "parameters": [
      {
        "type": "string",
        "description": "keyword",
        "name": "q",
        "in": "query"
      },
      {
        "type": "boolean",
        "description": "Limit search to repositories with keyword as topic",
        "name": "topic",
        "in": "query"
      },
      {
        "type": "boolean",
        "description": "include search of keyword within repository description",
        "name": "includeDesc",
        "in": "query"
      },
      {
        "type": "integer",
        "format": "int64",
        "description": "search only for repos that the user with the given id owns or co
```

**TO
DO**

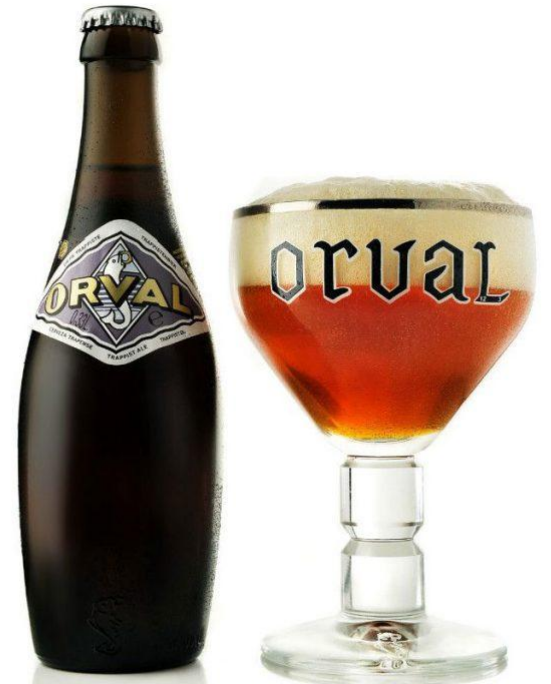
Generate frontend API



Orval

RESTFUL CLIENT GENERATOR

- Reads the API JSON
- Writes Typescript in a chosen
 - React/Svelte/Vue...
 - Fetch/Axios/...
 - Tanstack Queries



Tanstack Queries

- Cache queries
- Invalidate queries
- Global access to query results

Create application

- `npm create vuetify@latest`
- `npm run dev`
- `wget https://codeberg.org/swagger.v1.json`
- `npx orval --config orval.config.ts`
- 30kLoC swagger file → 60kLoC ts file

Reduce the generated code

```
import * as fs from "node:fs";
import SwaggerParser from "@apidevtools/swagger-parser";
import { OpenAPIV2 } from "openapi-types";
import { generate } from "orval";

// The paths form the Forgejo swagger interface
// that are used by this frontend.
const paths = [
  "/repos/search",
  "/repos/{owner}/{repo}",
  "/repos/{owner}/{repo}/issues",
  "/repos/{owner}/{repo}/issues/{index}",
  "/user",
  "/users/{username}/tokens",
];
```

```
function getTypes(endpoints: OpenAPIV2.PathsObject):
```

filterForgejoApi.ts

- List the needed endpoint
- Creates smaller API file with those endpoints and types
- 30kLoC → 2kLoC

forgejoSite
https://codeberg.org

username
vandenoever

password
●●●●●●●●●●●●●●●●

LOGIN

Login screen

- Provide the full url of the server
- Password goes directly to the Forgejo server

TODOS

You are logged in as vandenoever at <https://codeberg.org>.

vandenoever/app_test_data

This is here to test an app that accesses the

vandenoever/CookCLI

Command line program which provides a simple interface to create shopping lists and maintain recipes

vandenoever/fosdem2026todo

A demo application that accompanies a FOSS presentation. <https://fosdem.org/2026/schedule/>

vandenoever/freecad-flake

A flake to run and develop FreeCAD on NixOS

vandenoever/kwats

RDF graphs contain triples. Prepending the graph with the IRI of the triples gives quadruples

vandenoever/mobifree_pwa

A demo PWA for testing with mobifree and

vandenoever/pdfannotation

A simple web ui for annotating PDF files with Annotations. This project is not ready for

vandenoever/rehorse

Web app for rehearsing with a band. Practise recordings. Manage scores, playlists and

vandenoever/rome

An RDF library in pure Rust

vandenoever/selenium-test

Repository screen

```
<template>
  <v-list v-if="data && data.data" lines="two">
    <template v-for="repo in data.data.data" :key="repo.id">
      <v-list-item
        :subtitle="repo.description ?? ''"
        :title="repo.full_name ?? ''"
        @click="go(repo)"
      />
    </template>
  </v-list>
</template>
<script setup lang="ts">
  import { type Repository, useRepoSearch } from "../gen/forgejo-vue";

  const { data, error } = useRepoSearch({
    uid: props.auth.uid,
    priority_owner_id: props.auth.uid,
    exclusive: true,
    mode: "source",
    archived: false,
  });
</script>
```

What needs to be done?

Buy milk

Clean chicken shed

Saw window pane planks

Install isolation on attic

3 items left

ALL

ACTIVE

```
<template>
  <v-text-field
    v-model="newItem"
    placeholder="What needs to be done?"
    @keyup.enter="createNewItem"
  />
</template>
<script setup lang="ts">
import { useIssueCreateIssue } from "../gen/forgejo-vue";
import { useQueryClient } from "@tanstack/vue-query";
const { mutate: createIssue } = useIssueCreateIssue();
const queryClient = useQueryClient();

async function createNewItem() {
  if (newItem.value.trim()) {
    createIssue({
      owner: props.auth.username,
      repo: props.repo,
      data: { title: newItem.value },
    });
    await queryClient.invalidateQueries();
  }
}
```

Observations

- Enable CORS on Forgejo
- Direct login only works since a few releases
- Comment preview in Forgejo is done on the server
- API changes every 6 months: check the correct version
- This is just CRUD, not local-first software,
The user must be online

Conclusions

Forgejo

- is fantastic
- is a good backend for a TODO app

Will I continue on this app?

I am going to work on my issues