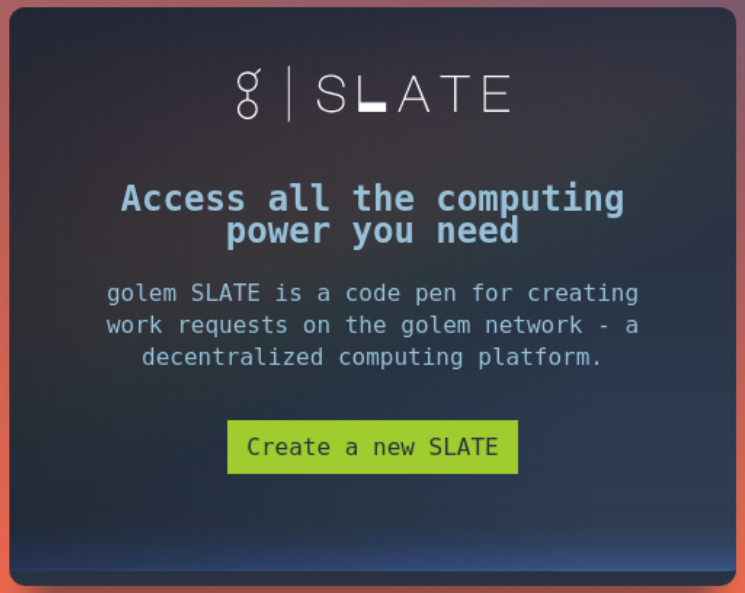
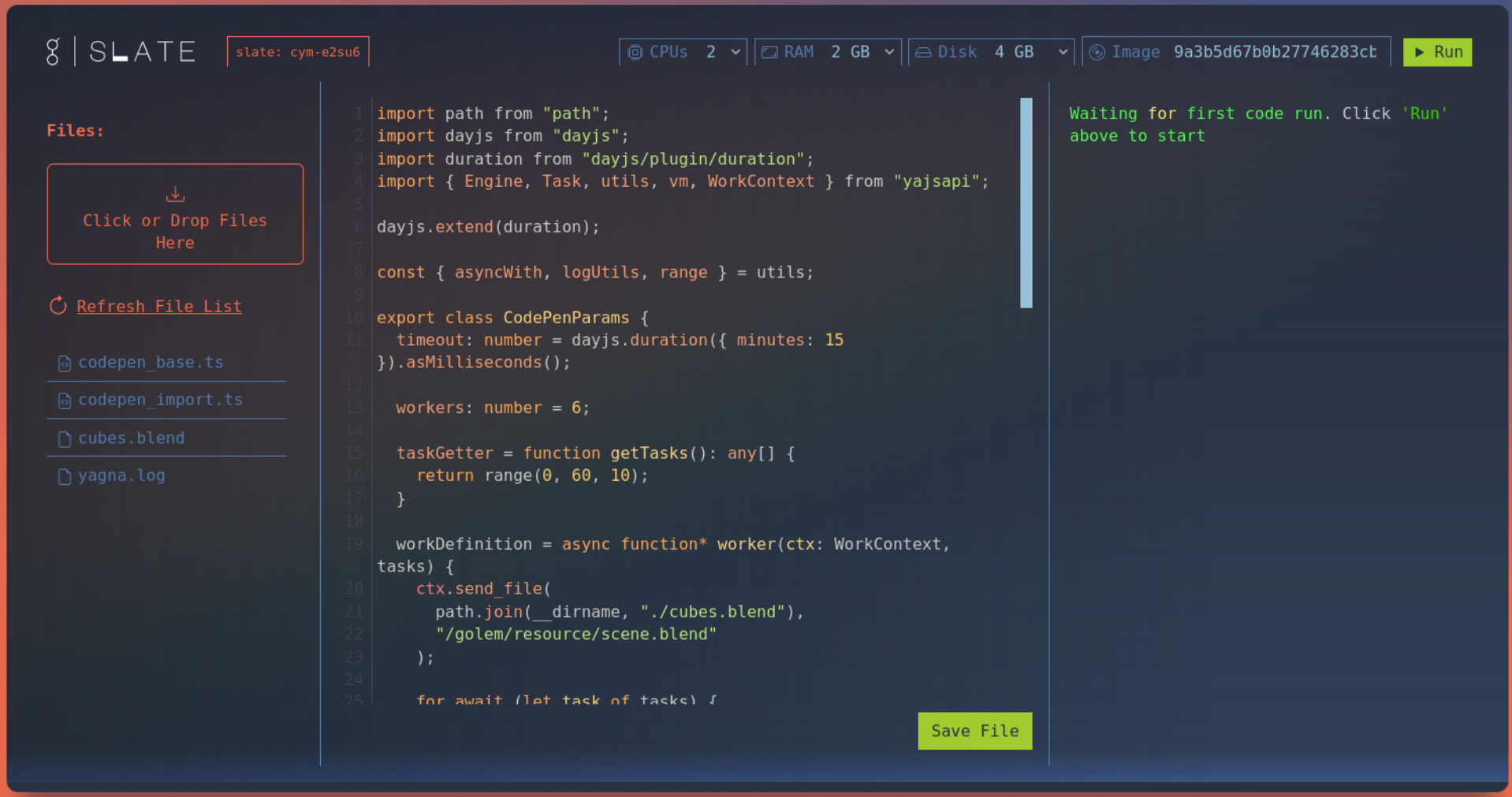
golem Alpha III Hackathon

golem SLATE

VON DEUTSCHKLUB


SLATE
Access all the computing power you need
golem SLATE is a code pen for creating work requests on the golem network - a decentralized computing platform.
Create a new SLATE


SLATE
slate: cym-e2su6
CPUs 2
RAM 2 GB
Disk 4 GB
Image 9a3b5d67b0b27746283cb
Run
Files:
Click or Drop Files Here
Refresh File List
codepen_base.ts
codepen_import.ts
cubes.blend
yagna.log
import path from "path";
import dayjs from "dayjs";
import duration from "dayjs/plugin/duration";
import { Engine, Task, utils, vm, WorkContext } from "yajsapi";
dayjs.extend(duration);
const { asyncWith, logUtils, range } = utils;
export class CodePenParams {
timeout: number = dayjs.duration({ minutes: 15
}).asMilliseconds();
workers: number = 6;
taskGetter = function getTasks(): any[] {
return range(0, 60, 10);
}
workDefinition = async function* worker(ctx: WorkContext,
tasks) {
ctx.send_file(
path.join(__dirname, "./cubes.blend"),
"/golem/resource/scene.blend"
);
Save File
Waiting for first code run. Click 'Run'
above to start

Summary

- SLATE is a code pen for writing a requester script to have work computed by the golem network.
- It is an SPA that utilizes dockerized yagna environments to communicate with the golem network
- The user only needs to provide 3 things:
  - The hash for the desired gvmkit image
  - A function to enumerate the tasks
  - A function to process each task
- The user may upload files for use in the requester script
- The user may download files returned from the golem worker

How It Works

- A new slate is created for each user with the blender sample script
- The user can make changes to the script, configure the resources required, and upload files
- **You may need to wait a few seconds for the yagna daemon to initialize**. You may view yagna.log in slate to ensure it is running before clicking “Run”
- When ready to test, the user clicks the “Run” button and the task is sent to the golem network through a dockerized yagna agent
- The user can see the progress of running the command streaming to the web page
- The user can download files retrieved from the golem node

Future Features

- Support for Python and Javascript slates
- Support for installing extra packages
- Support for reading & writing files from:
  - HTTPS
  - WebDAV
  - AWS
  - IPFS
- Persistent workspaces

Team & Links

- Mike Cross
  - Front-end
- Derek Jarvis
  - Back-end

https://github.com/DEUTSCHKLUB/golem-slate

https://slate.dcompute.xyz