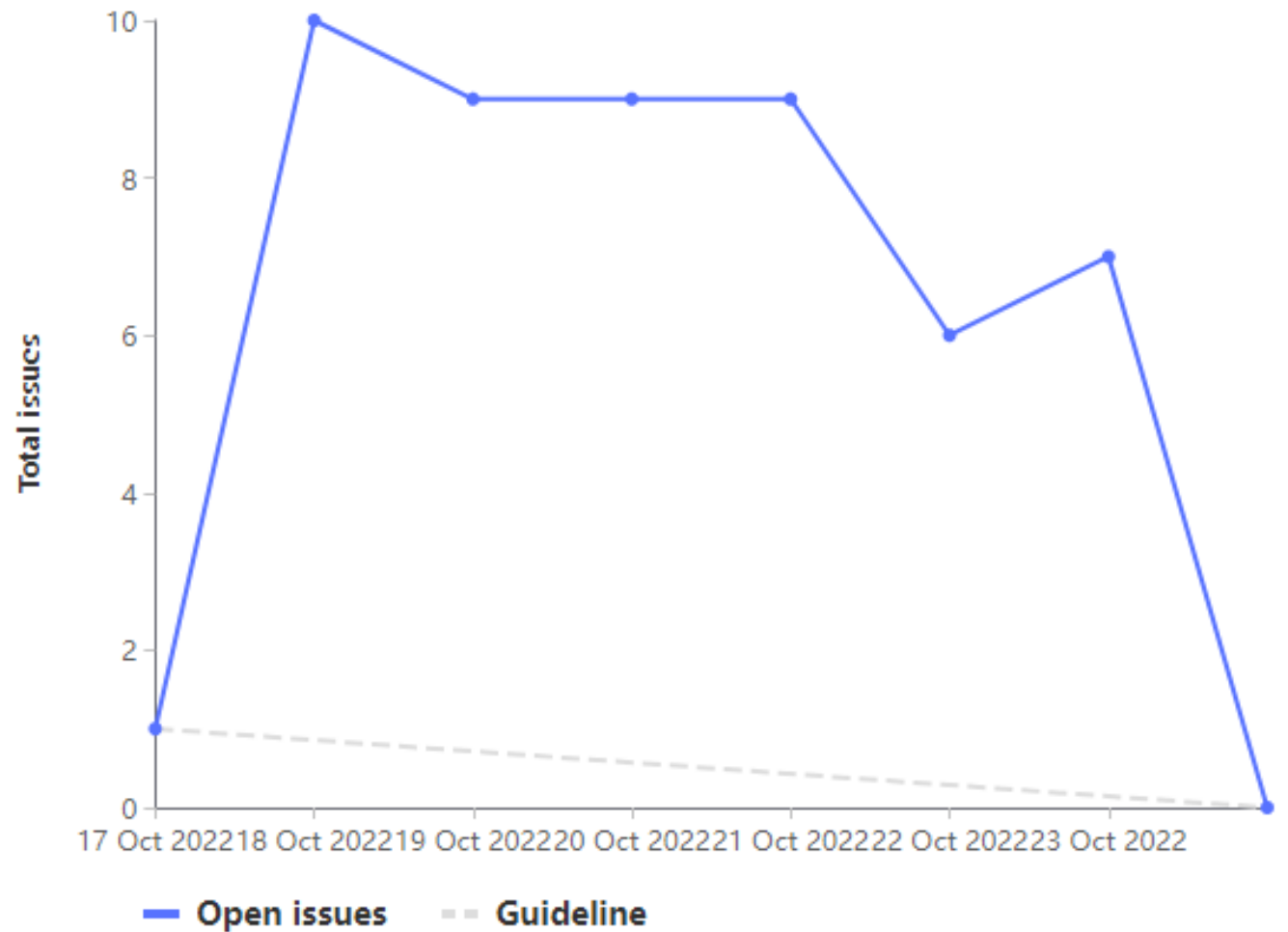




Sprint 4

GROUP 203

Burndown chart



Burndown Chart



Overall, Sprint 4 was successful. We were able to achieve the requirements as well as additional features and setting up Docker and Flask backend in preparation for future sprints



We were able to work in parallel for tasks that did not require each other as prerequisites, and we were able to start tasks early in the week.



An issue we faced this week was that we did not close issues when they were completed, leading to issues with the burndown chart. Going forward, we will close issues to reflect progress accurately.

Outcomes

Sahejveer Singh Kumar

Highlights of the week:

Setup GCP VM (Compute Engine)

UI prototype (Figma)

React app setup

Required installations including Docker Desktop

Meetings and PowerPoint presentation

Total Hours Worked (10.5)

3

4

4

2

8

21

Kyler Swanson

What I worked on:

- Frontend (NGINX > React) / Backend (Flask) Container setup
- docker-compose configuration (dev env.)
- Configured GCP Container Registry and Cloud Build
- Built GCP Kubernetes Engine cluster, hosting and scaling our microservices
- Documentation

Total time: 29 points (14.5 hrs)

Tristan Kerec

Meetings and PowerPoint Presentation	8	
UI Prototype (Figma)	4	
Setup Services (Docker Compose)	4	
NGINX Container Setup	3	
Python Container Setup (Flask)	3	
Install Docker Desktop	2	
Install Script	3	
Total Work Points	27 (13.5 hours)	

Andrew Heft

Team meetings	10
React app setup	4
Readme, documentation	2
Required installations including docker	2
PowerPoint presentation	2
Total work time	20 (10 hours)

Alireza Sharif

Meetings and PowerPoint Presentation	8
Setup Services (Docker Compose)	4
NGINX Container Setup	3
Python Container Setup (Flask)	3
Flask App (Backend)	4
Total Work Points	22 (11 hours)

Mackenzie Kean

Meetings and PowerPoint Presentation	6
Infrastructure flowchart	2
Flask API	4
React app setup	4
Docker Desktop install and documentation	4
Install script	3
Total Work Points	23 (11.5 hours)

Developer



Push Code

Gitlab Source repository

Gitlab Shared Runner

Push Images

Container Registry

Pull images

Deploy (Kubectf apply)

Kubernetes Engine

Node

Pod

Docker Container

NGINX Server

Front-end (React JS and
Bootstrap)

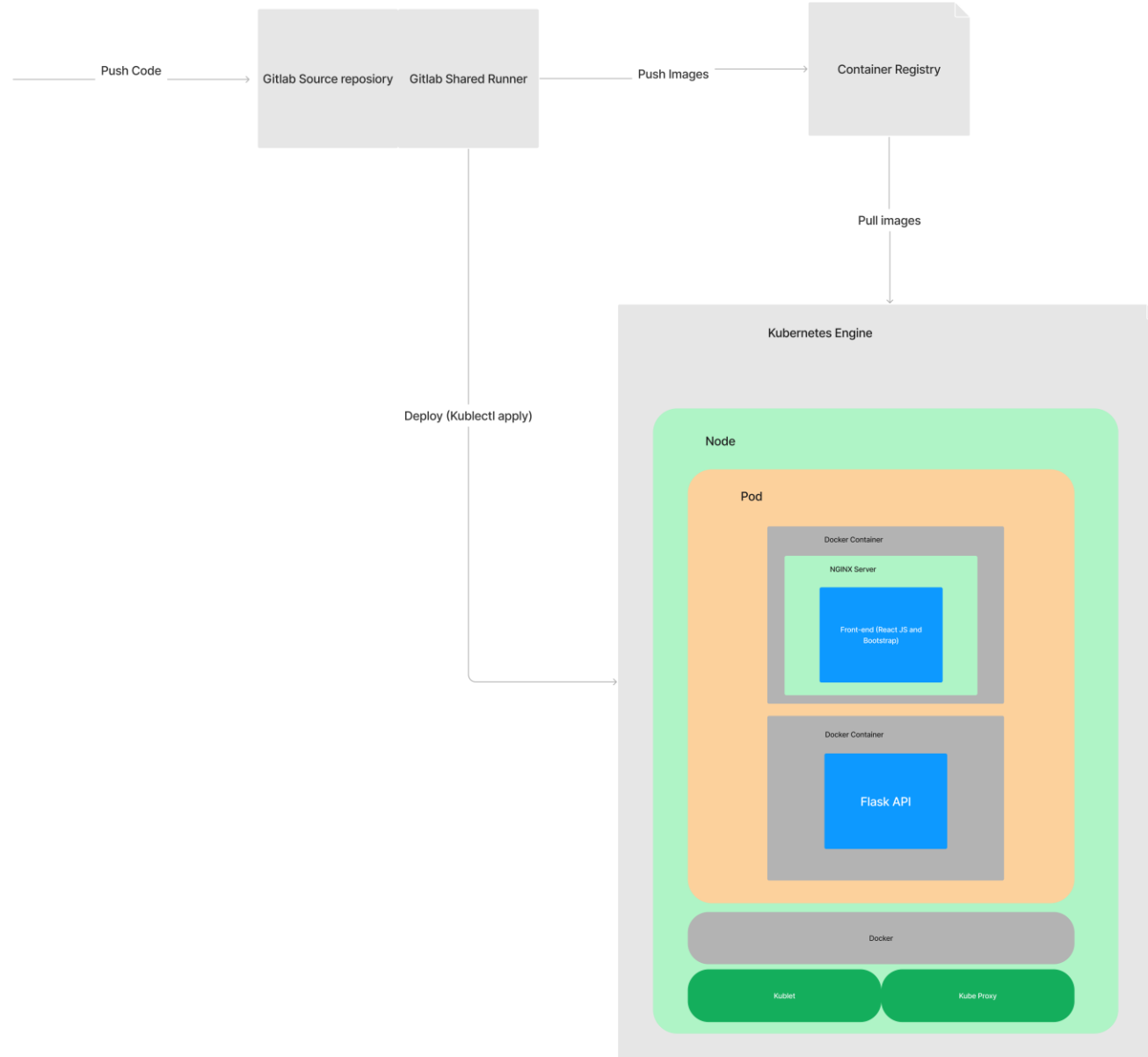
Docker Container

Flask API

Docker

Kublet

Kube Proxy



Robert Stegmann

Sprint4 Highlights

Task	Work Points
React app setup	4
Flask app setup	4
Install Docker	2
Documentation	2
Meetings	8
Total Work Points	22

Demo