

DIARY.COM

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New Tab

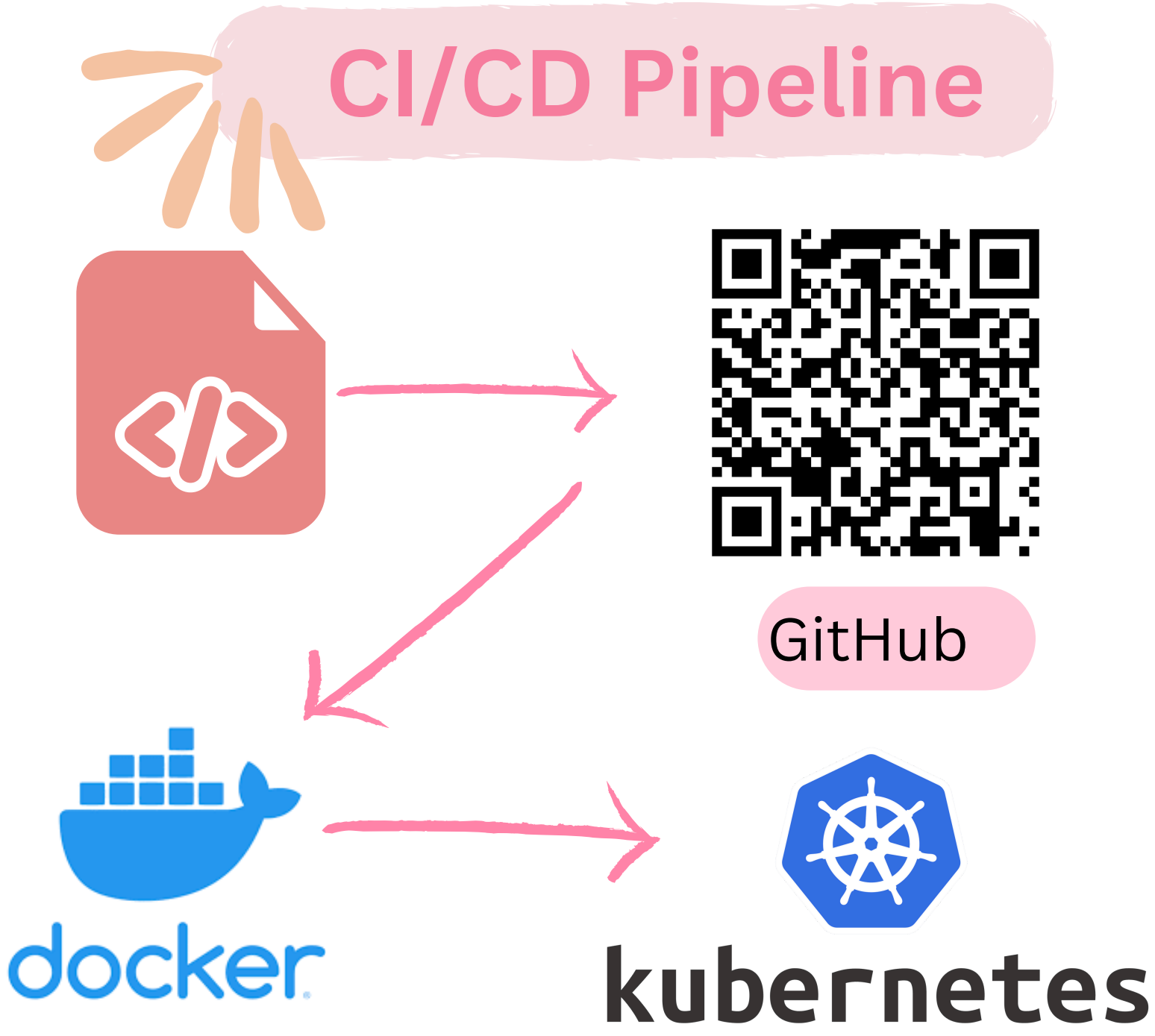
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PURPOSE: Diary.com is a cloud-based diary-writing web platform application. The website will allow users to write personal entries to themselves safely and securely. Entries will be locked with passwords or encryption so that no one but the user can access what they write.



Components

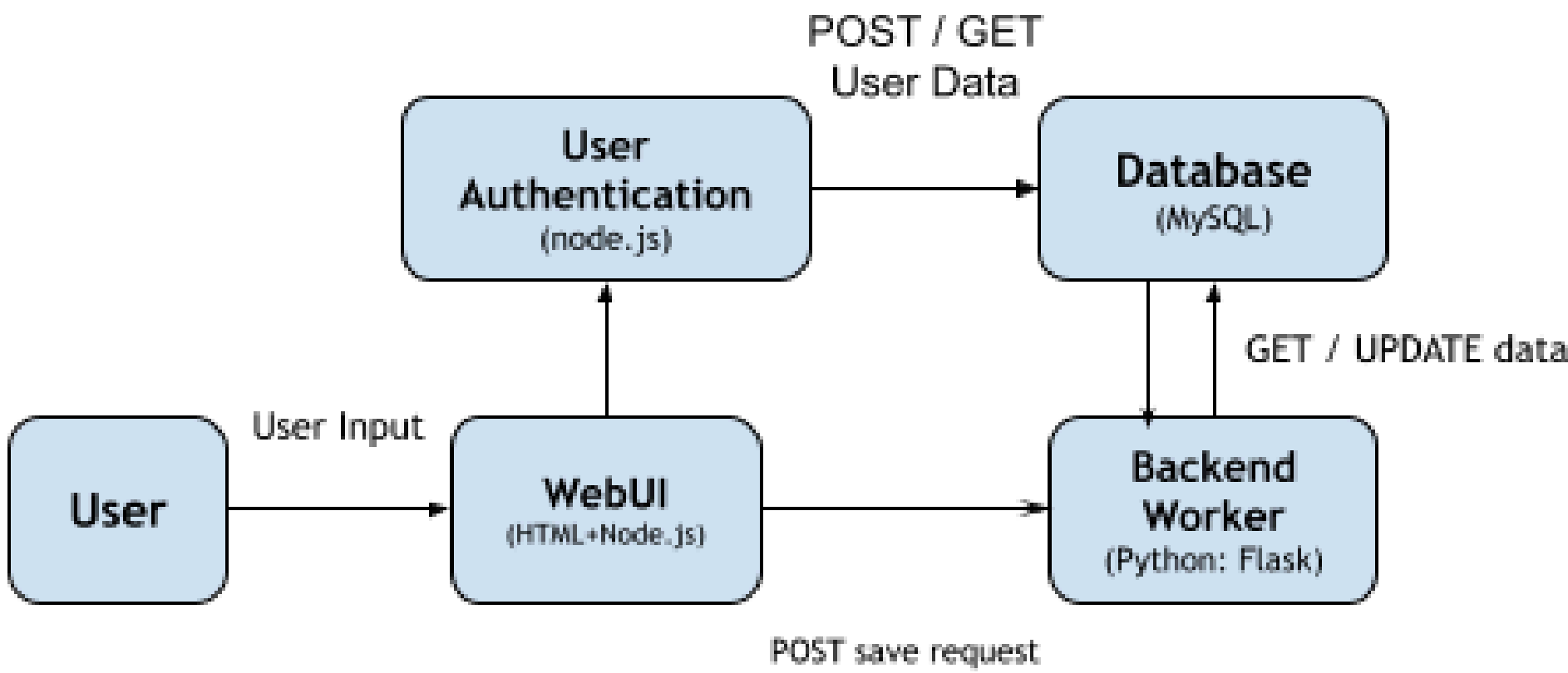
• Frontend Interface:

• Backend Development:

• Database:

• User Authentication:

- HTML, Node.js
- Flask/Python
- MySQL
- Django/Node.js



Design of Infrastructure

WebUI

Diary.com

Username

Password

Login

Sign Up

Login as Guest

My Diary

Menu

New Entry +

Entry 1

Entry 2

Entry 3

User's Home Page

Writing UI

Writing Page

Entry Title

Start typing your entry...

Save Entry

Account Settings Page

Settings

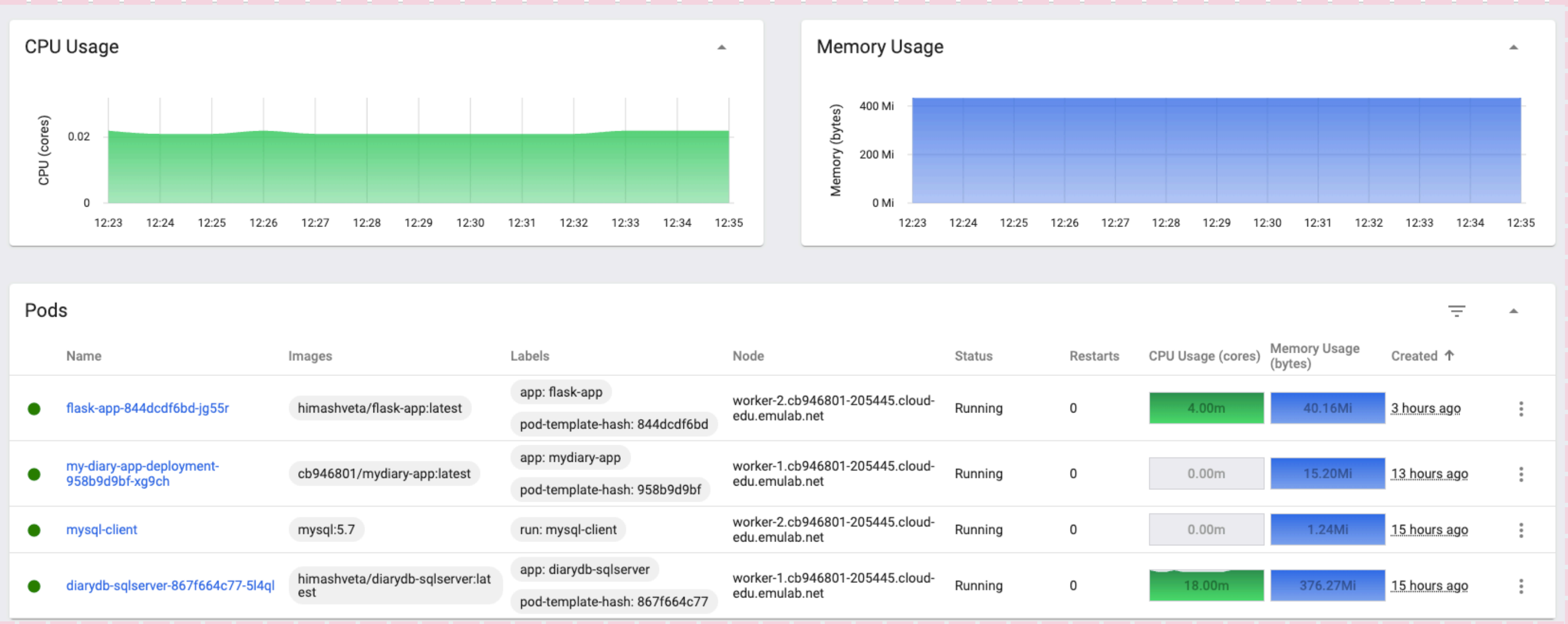
Update Username

Change Password

Update Email

Kubernetes Deployment

Deploying the Docker images onto the Kubernetes cluster has enabled a complete cloud deployment of components for the Diary.com website. Below is a successful deployment example:



Databases and Schema

- Two tables for the Diary
- MySQL Database:
- User Authentication
 - For the login HTML page
 - Entry Storage Table
 - Retrieving and querying saved entries

Databases

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| DiaryDB |
| diaryDB |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
6 rows in set (0.01 sec)
```

Schema:

User Authentication

id

name

password

int

varchar

text

Entry Storage

id

title

content

created_at

int

varchar(...

text

datetime