

DIARY.COM

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New Tab

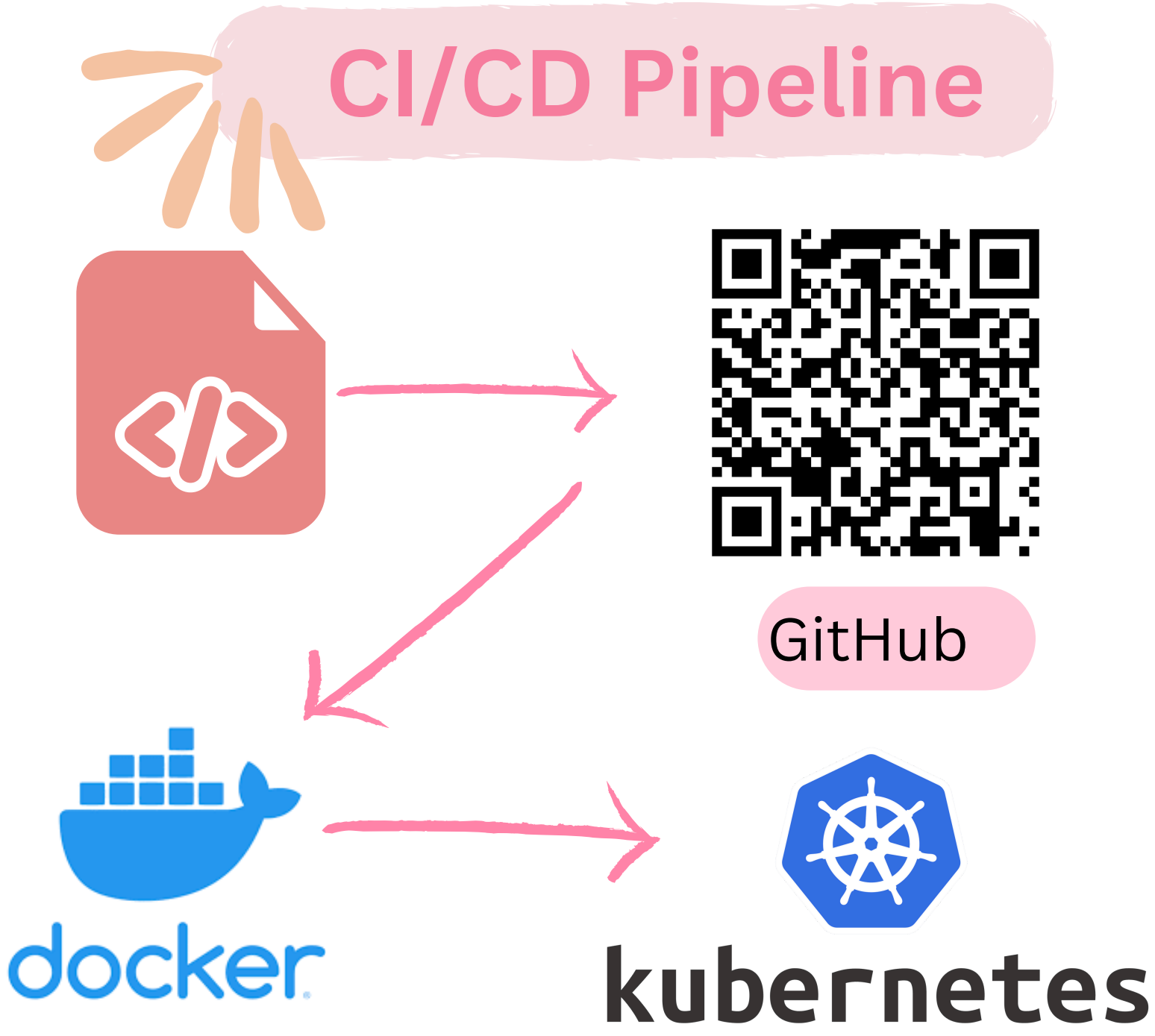
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PURPOSE: Diary.com is a cloud-based diary-writing web platform application. The website will allow users to write personal entries to themselves safely and securely. Entries will be locked with passwords or encryption so that no one but the user can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



Components

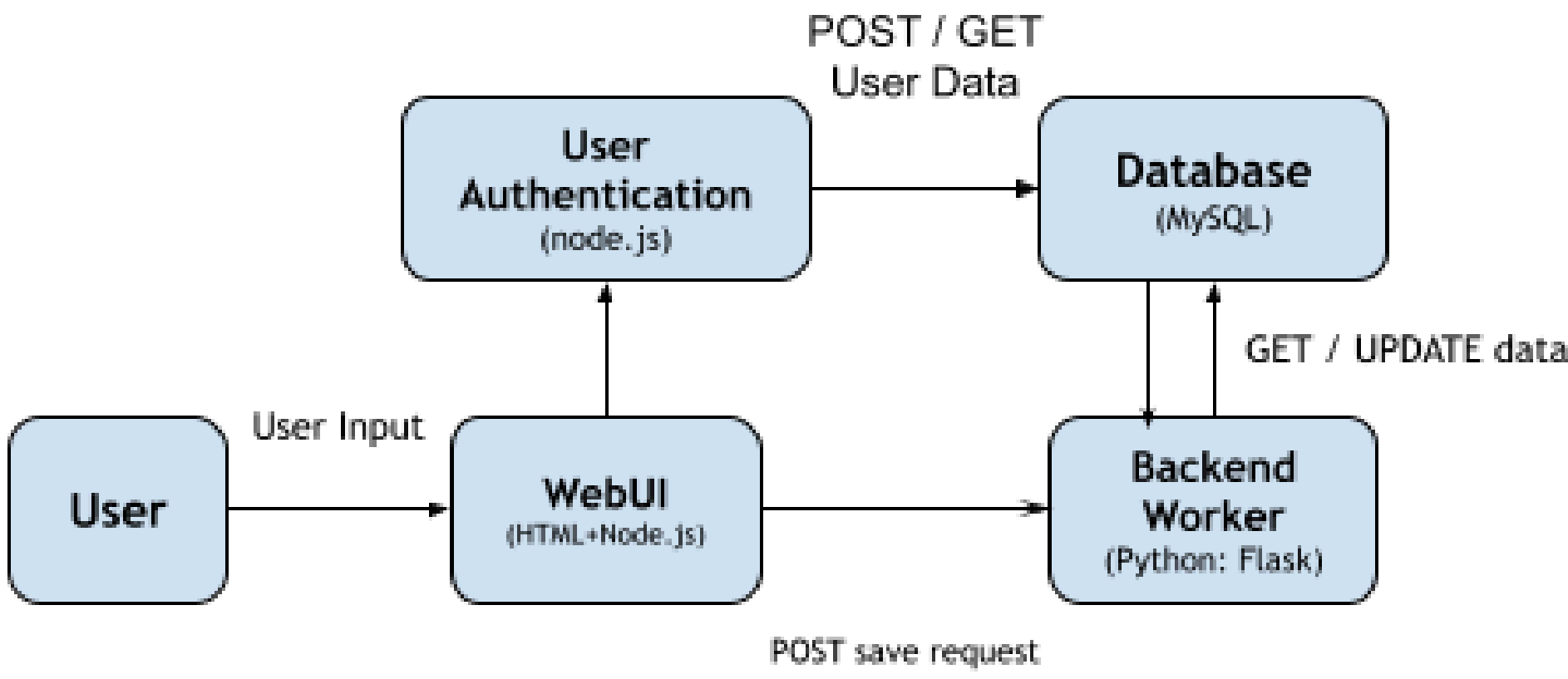
• Frontend Interface:

• Backend Development:

• Database:

• User Authentication:

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



WebUI

Design of Infrastructure

Diary.com

Login

Sign Up

Login as Guest

My Diary

Menu

New Entry +

Entry 1

Entry 2

Entry 3

User's Home Page

Writing UI

Account Settings Page

Settings

Update Username

New Username

Update Username

Change Password

Current Password

New Password

Confirm New Password

Change Password

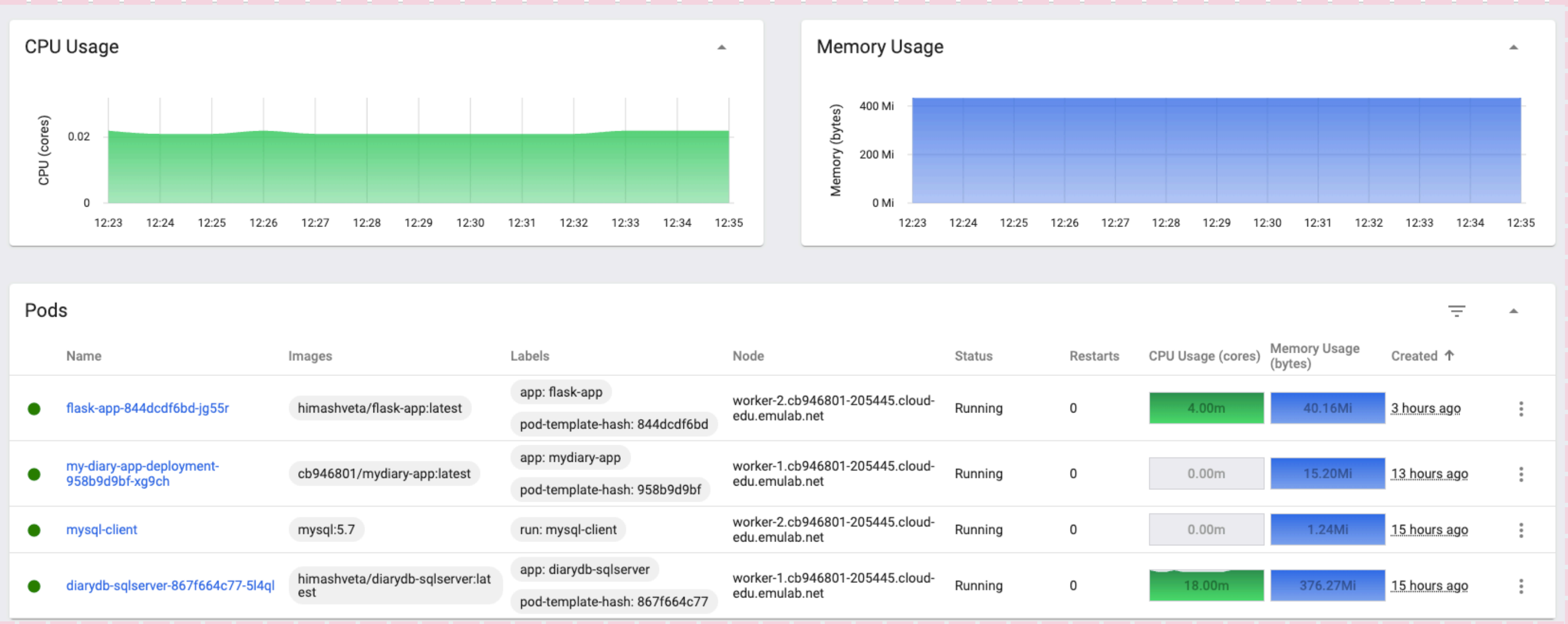
Update Email

New Email

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	Entry Storage
<div><div>id</div><div>name</div><div>password</div></div> <div><div>int</div><div>varchar</div><div>text</div></div>	<div><div>id</div><div>title</div><div>content</div><div>created_at</div></div> <div><div>int</div><div>varchar(...</div><div>text</div><div>datetime</div></div>