Diagram

Description automatically generated

Above is my architecture diagram.

I chose AWS DynamoDB as my database as I don’t have many-to-many relationships and all my related data can be stored as a single independent document. I used AWS DynamoDB for my last semester class, so I am familiar with it. I will use AWS Cognito to manage my user account credentials so I will keep it consistent for using AWS database.

There will be two groups of user data my website needs to manage:

* User account credentials
* User paste histories

The account credentials will be managed by AWS Cognito. End user can sign up/in with email and password.

The user paste histories will be stored in AWS Dynamo database, each data entry will look like the following:

{

“paste\_id”: {uuid},

“user\_id”: {user\_id},

“paste”: {user\_paste\_content},

“createdAt”: {date\_time\_of\_paste}

}

The user paste histories will be stored in AWS Dynamo database, the data will look like the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Paste\_id | User\_id | Content type | Content details | Entry date & time |
| UUID | User123 | Link | https://aws.amazon.com/getting-started/hands-on/build-modern-app-fargate-lambda-dynamodb-python/module-two/ | 2021-05-20 @ 12:34:56 |
| UUID | User678 | Text | Some of the problems J&J has faced are [failures of management](https://www.politico.com/news/2021/03/31/johnson-johnson-vaccine-15-million-ruined-478776) or oversight; others appear to be pure bad luck. But the chaos has disappointed the Biden team, which once argued that the company’s one-dose vaccine would be central to turning the tide of the pandemic. Instead, the administration has concluded that the company can’t be counted on for any significant production until it gets the green light from regulators to resume vaccination, according to two sources. | 2021-06-22 @ 18:32:01 |