

San Francisco State University
CSC 648 - 848
Milestone 0 Submission Form
Section 04 Team 02

Tech Stack -

Server Host: Amazon AWS

Operating System: Ubuntu 22.0

Database: MySQL 8.0

Web Server: Nginx 1.20.1

Server-Side Language: Python 3.11

Web Application Framework: React 18.2.0

Server Application Framework: Django 4.1.6

IDE: Visual Studio Code, PyCharm

Website URL: <http://13.52.61.95/>

SSH URL: ec2-13-52-61-95.us-west-1.compute.amazonaws.com

Database URL: testdb.cf8asksiuwjo.us-west-1.rds.amazonaws.com

Database Username: admin

Database Password: rainbow77

Familiarity:

Student Name	React	Python	MySQL	Amazon AWS	Django
Ashmitha Dale Pais	2	3	4	2	1
Steve Betts	1	4	4	1	4
Chris Farnsworth	1	4	3	1	3
Abdul Barrie	3	2	1	1	1
Preet Dhaliwal	1	2	4	1	2
Nathan Loo	2	3	1	1	1

Study Plan:

Amazon AWS, Amazon RDS, MySQL - Ashmitha Pais

Django, Python, MySQL - Steve, Preet, Chris

React, MySQL - Nathan and Abdul

Database, Git issues - Preet

How to connect to EC2 instance:

1. Clone <https://github.com/CSC-648-SFSU/csc648-spring23-04-team02>
2. Run `"cd csc648-spring23-04-team02/Application_SE02"`
3. Run `"ssh -i "mykey.pem" ubuntu@ec2-13-52-61-95.us-west-1.compute.amazonaws.com"`
4. It will connect to the EC2 instance, change permissions of mykey.pem to 400 if you see permission errors.

For database creation:

Created a free tier database from Amazon RDS with the following configurations:

Instance

Configuration

DB Instance ID
testdb

Engine version
8.0.28

DB name
Team0402

License model
General Public License

Option groups
default:mysql-8-0 In sync

Amazon Resource Name (ARN)
arn:aws:rds:us-west-1:423581700543:db:testdb

Resource ID
db-EKYWQK3Y7MRRIFKQJ67JZCRIZM

Created time
February 11, 2023, 15:39 (UTC-08:00)

DB Instance parameter group
default:mysql8.0 In sync

Deletion protection
Disabled

Instance class

Instance class
db.t2.micro

vCPU
1

RAM
1 GB

Availability

Master username
admin

Master password

IAM DB authentication
Not enabled

Multi-AZ
No

Secondary Zone
-

Storage

Encryption
Not enabled

Storage type
General Purpose SSD (gp2)

Storage
20 GiB

Provisioned IOPS
-

Storage throughput
-

Storage autoscaling
Enabled

Maximum storage threshold
1000 GiB

Performance Insights

Performance Insights enabled
Turned off

2. Used [MySQL workbench](#) to access the amazon RDS database.

For creating EC2 instance:

1. We created a free tier EC2 instance. It is a t2.micro instance with 8gb memory.
2. Next, we used docker and docker compose to generate the build and get our code up and running on the instance.

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/>	SEProject0402	i-0f903b4b8565d245e	Running	t2.micro	2/2 checks passed	No alarms +	us-west-1c	ec2-13-52-61-95.us-we...	13.52.61.95

For hosting onto EC2 after changes:

1. Create a feature branch from the main branch and make changes. Pushed code to your branch.
2. Raise a review from feature branch to main branch. Get it approved by Front-End Lead, Back-End Lead, Scrum Master and Team Lead.
3. Once the branch is merged, the Team Lead pulls from the repo, create a new npm build using **npm run build** and then hosts it on ec2 and builds it using **docker-compose up – build**.