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

List of Technologies used

Server Host:	Amazon Web Service (AWS) EC2
Operating System:	Ubuntu Server 24.04 LTS (HVM)
Database:	MongoDB Atlas
Web Server:	Vercel
Front-end Framework:	React
Server-Side Language:	Python
Web Application Framework:	Django
Additional Technologies:	Docker
IDE:	Visual Studio Code

Infrastructure

Item	Credentials
Website URL	guacamolerigatoni.com The front end is deployed using Vercel. Due to pricing restrictions, we are unable to provide third-party access to Vercel.
Cloud VM instance	ec2-54-176-55-68.us-west-1.compute.amazonaws.com

| | Requires IP whitelisting along with a .pem key file to connect via SSH. Please request mkullathon@sfsu.edu if you require access. Then, the connect:<br><br>```
ssh -i <path to PEM file>
ubuntu@ec2-54-176-55-68.us-west-1.compute.amazonaws.com
``` |
|---|---|
| Database | guacamole-cluster-0.xlsu7.mongodb.net<br><br>You can connect via the MongoDB Shell and authenticate using X.509. Please request mukullathon@sfsu.edu for the .pem file. Then, to connect:<br><br>```
mongosh
"mongodb+srv://guacamole-cluster-0.xlsu7.mongodb.net/?authSource=%24external&authMechanism=MONGODB-X509" --apiVersion 1 --tls --tlsCertificateKeyFile <path to PEM file>
```<br><br>The delegated username for TA access is `cs686ta` with read-only access. Upon request, we will provide you with the X.509 certificate necessary for authentication. The certificate will expire 03/18/25 12:55. |

Study Plan

Familiarity with technologies and packages (1–5 scale):

Member	AWS	Python	MongoDB	Django	React	Vercel
Katy	3	5	4	2	4	1
Kevin	1	3	1	1	1	1
Niko	1	5	3	1	5	1
Arjun	3	5	4	2	4	2
Matthew	1	3	2	1	2	1
Mos	2	5	2	2	4	2
Arizza	1	3	1	1	2	1

Proposed study plan

Our study plan for the upcoming period is as follows:

- **9/12 Meeting:** We'll focus on learning and practicing AWS and Vercel together to get comfortable with their features. Mos will set up our cloud server in advance so that we can all use and familiarize ourselves with it during the meeting.

- **Vercel:** We aim to complete the Vercel setup by 9/13.

- **MongoDB:** Arjun and Matthew will be working together to get familiar with MongoDB and have it set up by 9/13.

- **Front-end:** Niko and Kevin will be brushing up on the React skills and explore the use of different libraries. They will be working on the frontend together, aiming to complete this by 9/15.

- **Design, Vercel, and React:** Arizza will focus on these areas, ensuring she's up to speed by 9/15. She'll also be responsible for team communication, organizing extra meetings if needed, and keeping the team lead updated on any challenges.

Mos and Matthew will ensure that all cloud infrastructure, namely: Amazon EC2, Vercel, and MongoDB, will be ready for preliminary testing. Our primary goal is to have Vercel ready for front-end deployment for Milestone 0.

Our team lead Katy, will be involved in a bit of everything, checking in with each group, and getting a status update by 9/15 and keeping the group finishing what they need.