Electromech

A

Project Report On

"AWS Serverless Web Application"

Prepared by

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Under the Supervision of

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ACKNOWLEDGEMENT

Every work that one completes successfully stands on the constant encouragement, good will and support of the people around. We hereby avail this opportunity to express our gratitude to number of people who extended their valuable time, full support and cooperation in developing the project.

We express deep sense of gratitude towards our Mr. Nilesh Vaghela sir and Mr. Anvit Dave sir for the support during the whole session of study and development. It is because of them, that We were prompted to do hard work, adopting new technologies.

They altogether provided us favorable environment, and without them it would not have been possible to achieve our goal.

Thanks,

Mishar

ABSTRACT

We all have heard the booming word Serverless application on cloud. With this internship I got an opportunity to develop a serverless application on aws. In this project I have created a simple quiz application which is created on aws with use of different services like S3, CloudFront, Lambda, DynamoDB, Cognito and APIGateway. The main purpose of this application was to get knowledge of each services and how it can combined and can be delivered as efficient as possible. The Serverless application are mainly made for small application which does not need heavy computation and also it does not need heavy servers in backend application which may be expensive if not used wisely. And one use case of serverless application could be event based application or analytics services based on data collected or real time analyzing on data.

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INTRODUCTION

- **OBJECTIVE**
  - The underlying goal of this project was to learn how microservices architecture is build and how different services can be embedded together to get an output in form of an application.

- **PROJECT PLANNING**

➢ Project Development Approach and Justification

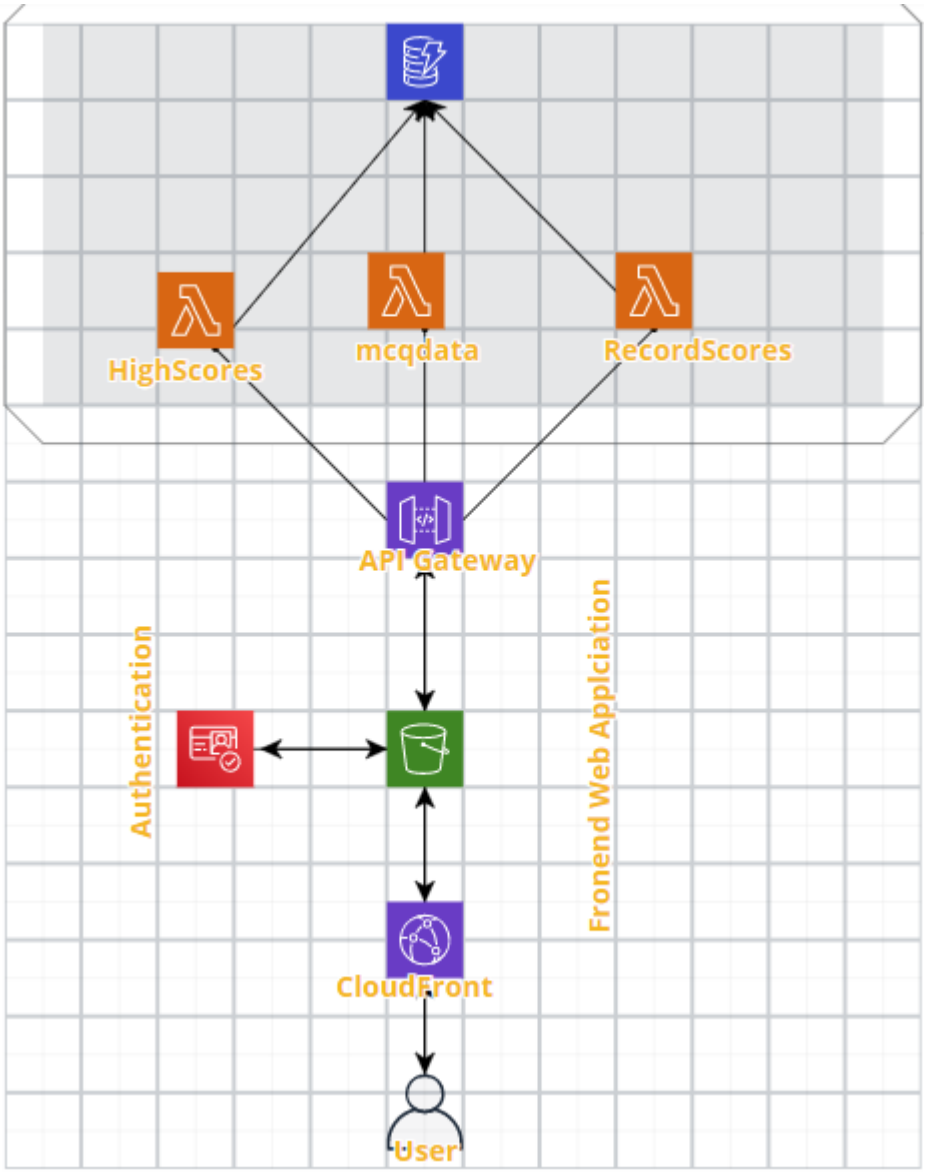
1. First Part of this was to understand various aws services and to explore each in detail and to learn implementing it in coupling. To understand I have gone through one serverless course to understand this services and in combination (the reference of the course will be in References section at end of the report).

   Services:

   - Aws lambda
   - Aws S3
   - Aws DynamoDB
   - Aws Cognito
   - Aws APIGateway
   - Aws CloudFront

2. After getting some hands on different services, the next phase was to build some architecture of the whole project which is most important step of this planning the project as it design the

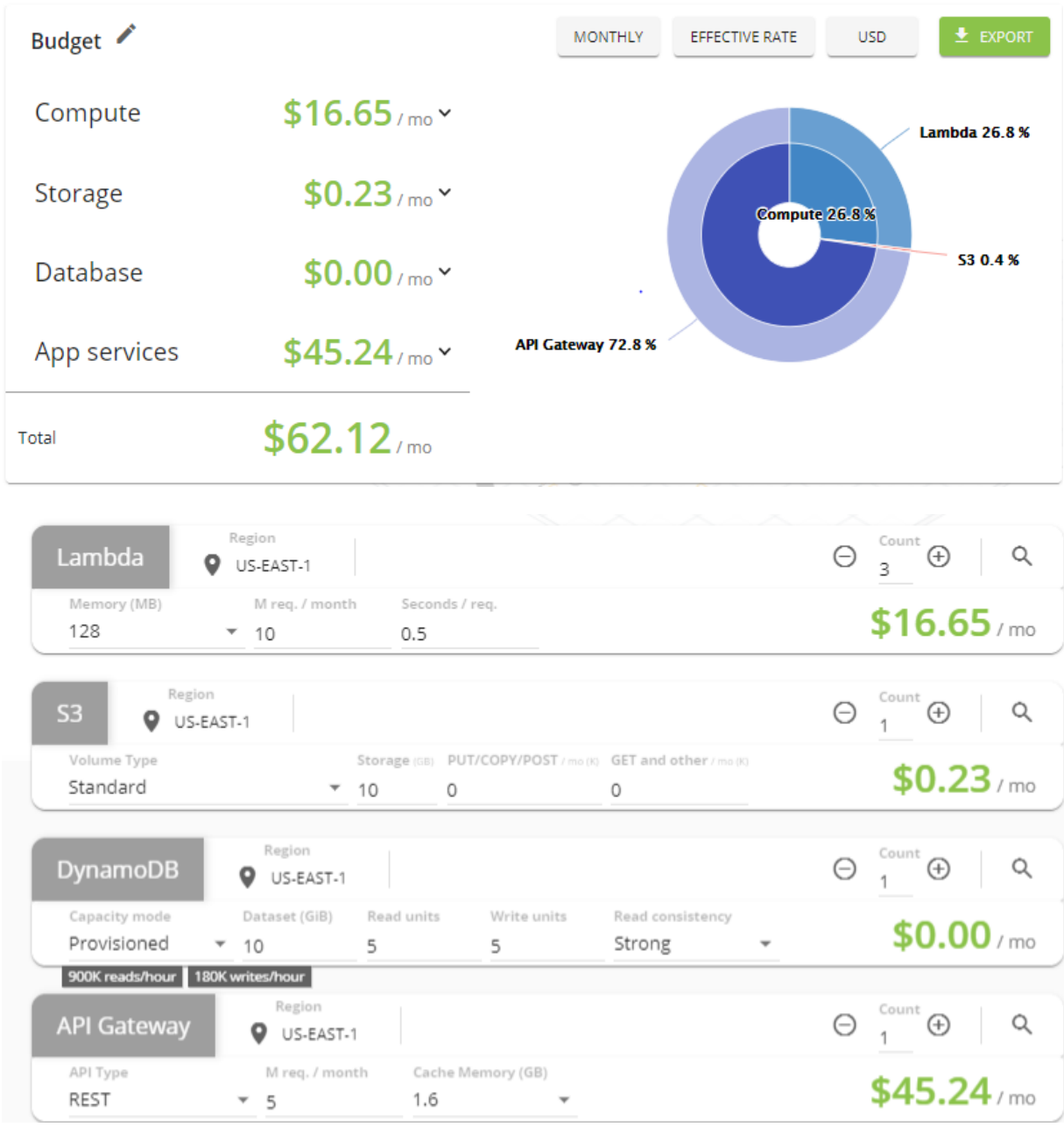
whole working of the project to deliver the final output. Below is an image
of architecture of the whole web application.



3. After building the architecture I have to start building the project for that I have divided the project into different parts and each part is connected to other one so that at end the whole project is created.

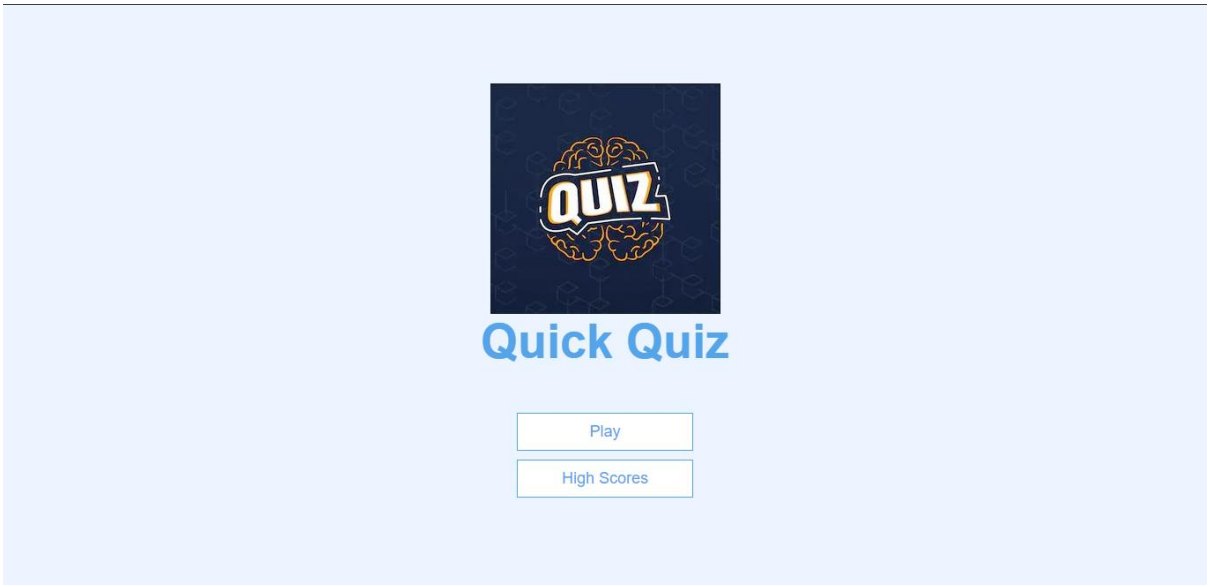
4. Once the project was completed I had created an estimation of the project and and it can be varied depending upon the time,

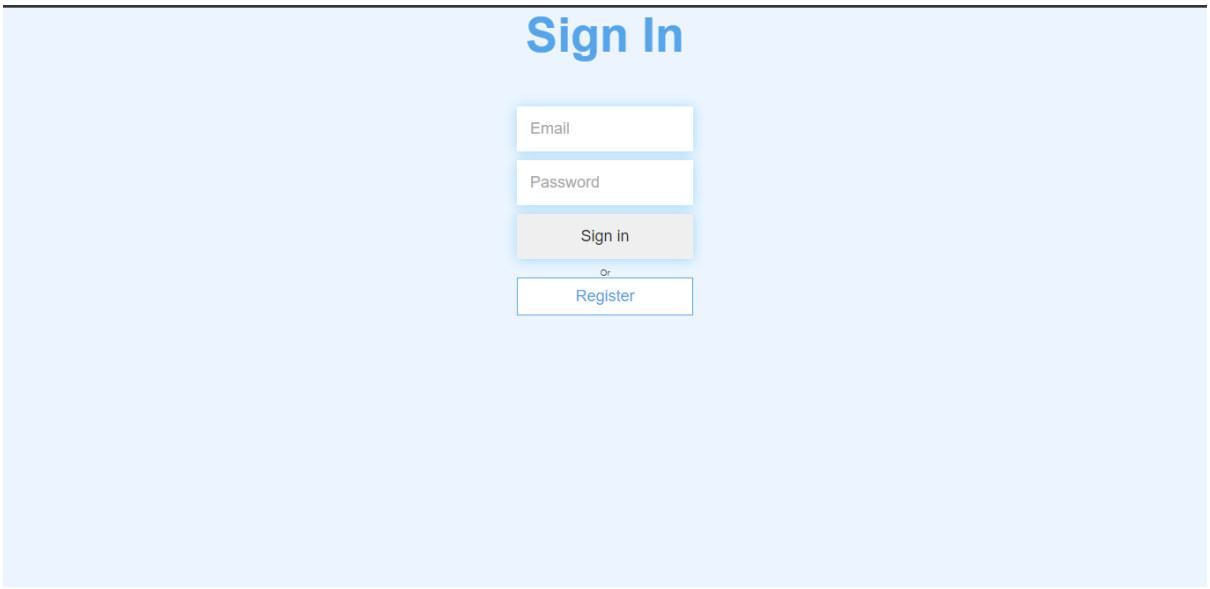
services, region and other major factors.



5. There are some limitations of the project also but I will try to improve as I learn more about.

SNIPPETS


QUIZ
Quick Quiz
Play
High Scores


Sign In
Email
Password
Sign in
or
Register

Register

Email

Password

Confirm Password

Let's Go

Question 1/5

Score

0

In the Soviet Union, a negative aspect of the Cold War Era was the

A attempt to preserve democratic ideals

B development of peaceful uses for modern technology

C high cost of maintaining the arms race

D development of effective means of international cooperation

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Sherl0ck

Save

Play Again

Go Home

REFERENCES

- https://www.learningcrux.com/course/aws-lambda-serverless-architecture-bootcamp-build-5-apps
- https://docs.aws.amazon.com/lambda/?id=docs_gateway
- https://aws.amazon.com/serverless/serverlessrepo/
- https://aws.amazon.com/serverless/#:~:text=AWS%20provides%20a%20set%20of,%2C%20message%20queueing%2C%20and%20more.