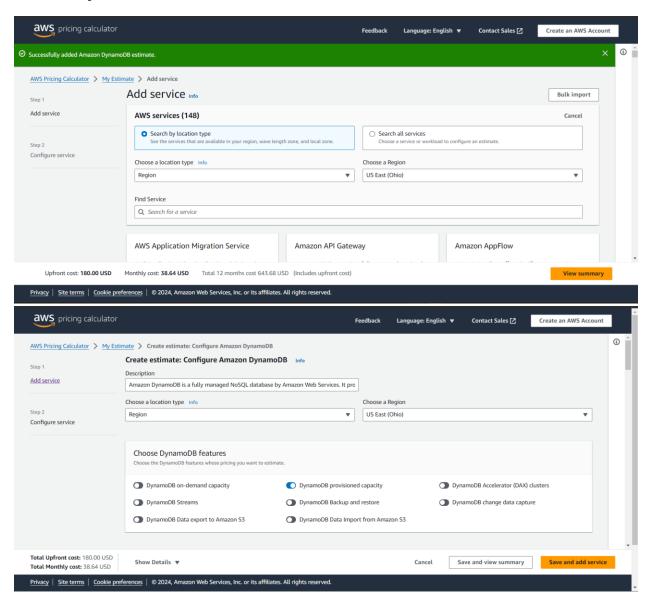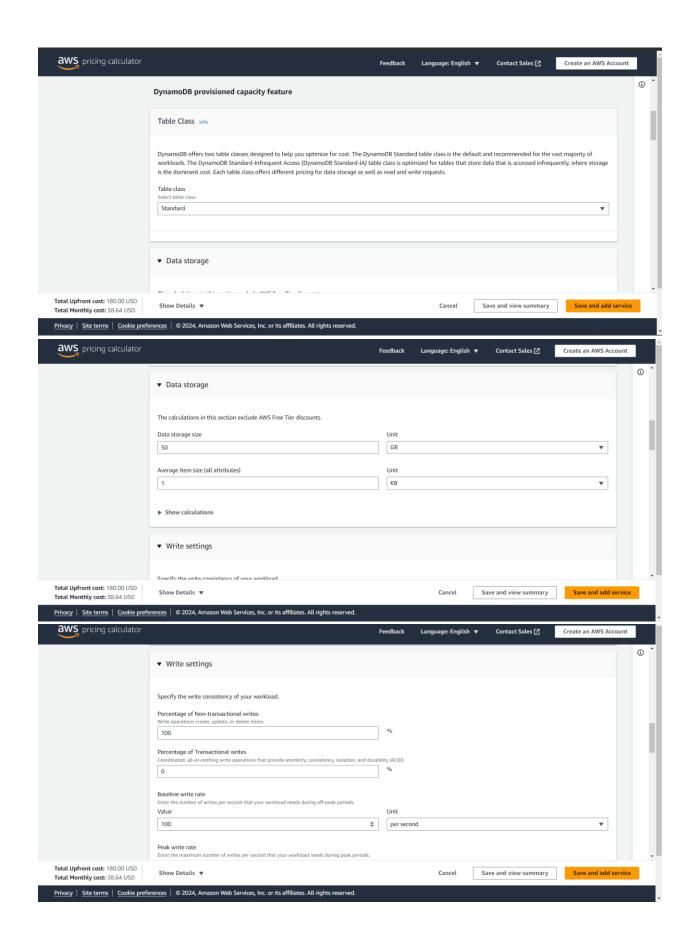**FACULTY OF COMPUTING AND INFORMATICS**

CIT4183 - INTRODUCTION OF CLOUD COMPUTING

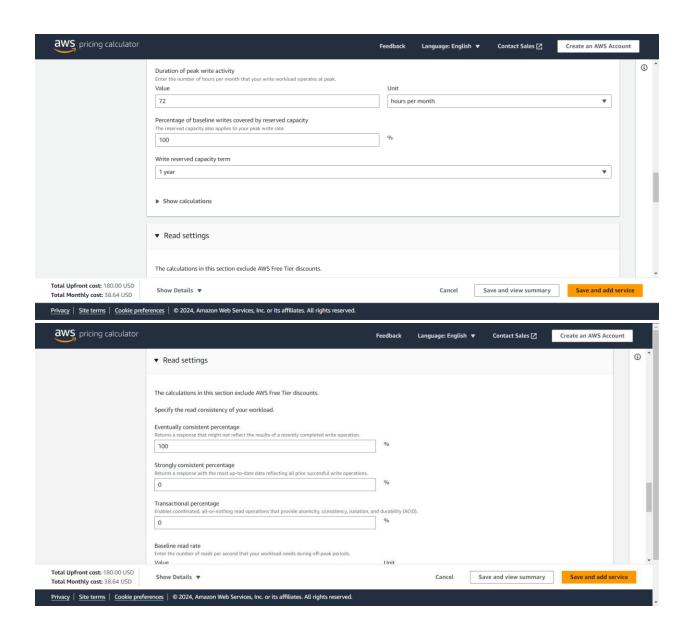**INDIVIDUAL ASSIGNMENT**

Trimester 2, Session 2023/2024 (T2410)

Student Name	Student ID
Koh Soon Keat	1221201013

1. Amazon DynamoDB

DynamoDB provisioned capacity feature

Table Class Info

DynamoDB offers two table classes designed to help you optimize for cost. The DynamoDB Standard table class is the default and recommended for the vast majority of workloads. The DynamoDB Standard-Infrequent Access (DynamoDB Standard-IA) table class is optimized for tables that store data that is accessed infrequently, where storage is the dominant cost. Each table class offers different pricing for data storage as well as read and write requests.

Table class
Select table class

Standard	▼

▼ Data storage

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD   Show Details ▼   Cancel   Save and view summary   Save and add service

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▼ Data storage

The calculations in this section exclude AWS Free Tier discounts.

Data storage size

50	Unit	GB ▼

Average item size (all attributes)

1	Unit	KB ▼

▶ Show calculations

▼ Write settings

Specify the write consistency of your workload

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD   Show Details ▼   Cancel   Save and view summary   Save and add service

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▼ Write settings

Specify the write consistency of your workload.

Percentage of Non-transactional writes
Write operations create, update, or delete items.

100	%

Percentage of Transactional writes
Coordinated, all-or-nothing write operations that provide atomicity, consistency, isolation, and durability (ACID).

0	%

Baseline write rate
Enter the number of writes per second that your workload needs during off-peak periods.
Value

100	Unit	per second ▼

Peak write rate
Enter the maximum number of writes per second that your workload needs during peak periods.

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD   Show Details ▼   Cancel   Save and view summary   Save and add service

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Duration of peak write activity

Enter the number of hours per month that your write workload operates at peak.

Value

72

Unit

hours per month ▼

Percentage of baseline writes covered by reserved capacity

The reserved capacity also applies to your peak write rate.

100

%

Write reserved capacity term

1 year ▼

▶ Show calculations

▼ Read settings

The calculations in this section exclude AWS Free Tier discounts.

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD

Show Details ▼

Cancel   Save and view summary   Save and add service

▼ Read settings

The calculations in this section exclude AWS Free Tier discounts.

Specify the read consistency of your workload.

Eventually consistent percentage

Returns a response that might not reflect the results of a recently completed write operation.

100

%

Strongly consistent percentage

Returns a response with the most up-to-date data reflecting all prior successful write operations.

0

%

Transactional percentage

Enables coordinated, all-or-nothing read operations that provide atomicity, consistency, isolation, and durability (ACID).

0

%

Baseline read rate

Enter the number of reads per second that your workload needs during off-peak periods.

Value

Unit

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD

Show Details ▼

Cancel   Save and view summary   Save and add service

Baseline read rate

Enter the number of reads per second that your workload needs during off-peak periods.

Value

| 100 |

Unit

| per second ▼ |

Peak read rate

Enter the maximum number of reads per second your workload needs during peak periods.

Value

| 400 |

Unit

| per second ▼ |

Duration of peak read activity

Enter the number of hours per month when your read workload operates at peak.

Value

| 72 |

Unit

| hours per month ▼ |

Percentage of baseline reads covered by reserved capacity

The reserved capacity also applies to your peak read rate.

| 100 | %

Read reserved capacity term

| 1 year |

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD

Show Details ▼   Cancel   Save and view summary   Save and add service

Value

| 400 |

Unit

| per second ▼ |

Duration of peak read activity

Enter the number of hours per month when your read workload operates at peak.

Value

| 72 |

Unit

| hours per month ▼ |

Percentage of baseline reads covered by reserved capacity

The reserved capacity also applies to your peak read rate.

| 100 | %

Read reserved capacity term

| 1 year ▼ |

▶ Show calculations

Total Upfront cost: 180.00 USD
Total Monthly cost: 38.64 USD

Show Details ▼   Cancel   Save and view summary   Save and add service

Total Upfront Cost: 4158.45 USD
Total Monthly Cost: 38.64 USD

2. **AWS Lambda**

Number of requests

	Unit
2	per month ▼

Duration of each request (in ms)
Duration is calculated from the time your code begins executing until it returns or otherwise terminates.

200

Amount of memory allocated
Enter the amount between 128 MB and 10 GB

Value	Unit
512	MB ▼

Amount of ephemeral storage allocated
Enter the amount between 512 MB and 10,240 MB. The first 512 MB are at no additional charge, you only pay for any additional storage that you configure for the function.

Value	Unit
512	MB ▼

> ⓘ **Free Tier**
> The Lambda free tier includes 1M free requests per month and 400,000 GB-seconds of compute time per month.

Total Upfront cost: 0.00 USD
Total Monthly cost: 54.00 USD

Show Details ▼   Cancel   [Save and view summary]   [Save and add service]

Provisioned Concurrency Info

Architecture

x86 ▼

Concurrency
Enter the concurrency configured for the function

10

Time for which Provisioned Concurrency is enabled
Enter the time period when Provisioned Concurrency is enabled for your function over the whole month

Value	Unit
720	hours ▼

Number of requests for Provisioned Concurrency
Enter the number of requests that you will make when the function is configured with Provisioned Concurrency

Value	Unit
1024	per month ▼

Total Upfront cost: 0.00 USD
Total Monthly cost: 54.00 USD

Show Details ▼   Cancel   [Save and view summary]   [Save and add service]

Value	Unit
1024	per month ▼

Duration of each provisioned request (in ms)
Duration is calculated from the time your code begins executing until it returns or otherwise terminates.

300

Amount of memory allocated
Enter the amount between 128 MB and 10 GB

Value	Unit
512	MB ▼

▶ Show calculations

Lambda@Edge Info

There is no free tier for Lambda@Edge at this time. Lambda@Edge pricing does not vary by region. You are charged for the total number of requests across all your functions executed in all regions.

Total Upfront cost: 0.00 USD
Total Monthly cost: 54.00 USD

Show Details ▼   Cancel   [Save and view summary]   [Save and add service]

Lambda@Edge Info

There is no free tier for Lambda@Edge at this time. Lambda@Edge pricing does not vary by region. You are charged for the total number of requests across all your functions executed in all regions.

Number of requests

| 1 |

Unit

| per month ▼ |

Duration of each request (in ms)
Duration is calculated from the time your code begins executing until it returns or otherwise terminates.

| 200 |

Amount of memory allocated
Enter the amount between 128 MB and 10 GB

Value

| 512 |

Unit

| MB ▼ |

▶ Show calculations

Total Upfront cost: 0.00 USD
Total Monthly cost: 54.00 USD

Show Details ▼   Cancel   Save and view summary   Save and add service

| 512 | | MB ▼ |

▶ Show calculations

Lambda HTTP Response Streaming Info

Invoke Mode

| Buffered ▼ |

There is no additional charge on buffered response.

▶ Show calculations

Total Upfront cost: 0.00 USD
Total Monthly cost: 54.00 USD

Show Details ▼   Cancel   Save and view summary   Save and add service

Total Monthly Cost: 54.00 USD