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**SIX WEEKS SUMMER TRAINING  
REPORT  
ON**

**“Cloud Computing”**

**Submitted by:**

Vannala Rajesh

Registration No:12103182

Under the Guidance of

**Board Infinity**

**School of Computer Science & Engineering**

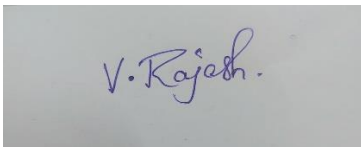
**Lovely Professional University, Phagwara**

**(June-July,2023)**

## **Annexure-II:**

### **Student Declaration To whom so ever it may concern**

I, Vannala Rajesh 12103182, hereby declare that the work done by me on "Cloud Computing and AWS" from May, 2023 to July, 2023, is a record of original work for the partial fulfillment of the requirements for the award of the degree, B.Tech(Computer Science).

A rectangular box containing a handwritten signature in blue ink that reads "V. Rajesh."

Signature of the student

Name of the Student (Registration  
Number):

Vannala Rajesh  
12103182

## ACKNOWLEDGEMENT

I am grateful for the opportunity to have participated in the Cloud Computing. The program provided me with the knowledge and skills I need to get started with cloud computing. I am confident that the skills I have learned will be valuable in my future career.

Specifically, I would like to thank the instructors and teaching assistants for their clear and concise explanations of the material. I would also like to thank the other participants in the program for making it a stimulating and collaborative learning experience.

I am excited to use the skills I have learned to build and deploy cloud-based applications and solutions. I am also grateful for the Cloud documentation, forums, and blog, which I found to be helpful resources.

I am confident that the Cloud computing program has prepared me well for a career in cloud computing. I am excited to continue learning and growing in this field.

## CERTIFICATION:

# CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS AWARDED TO

**Vannala Rajesh**

for successfully completing Microlearning Program in  
**Cloud Computing And Aws**

12 July, 2023

ISSUED DATE



CEO, Board Infinity  
Sumesh Nair

BI22LPBI345426039

CERTIFICATE NO.

**BOARD**

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# Chapter-1

## Introduction

Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet (“the cloud”) to offer faster innovation, flexible resources, and economies of scale.

Instead of buying and maintaining physical servers and other IT infrastructure, businesses and organizations can access cloud-based services and pay for only the resources they use. This can help businesses save money, improve efficiency, and focus on their core competencies.

There are three main types of cloud computing services:

- ❑ Infrastructure as a Service (IaaS): This provides businesses with access to virtual servers, storage, and networking resources.
- ❑ Platform as a Service (PaaS): This provides businesses with a platform to develop, deploy, and manage applications.
- ❑ Software as a Service (SaaS): This provides businesses with access to software applications that are hosted on the cloud.

Cloud computing is a rapidly growing field, and it is being used by businesses of all sizes. It offers a number of benefits, including:

- ❑ Scalability: Cloud computing services can be scaled up or down as needed, which can help businesses save money.
- ❑ Reliability: Cloud computing services are typically more reliable than traditional IT infrastructure.
- ❑ Security: Cloud computing providers have invested heavily in security, and they offer a variety of security features.
- ❑ Accessibility: Cloud computing services can be accessed from anywhere with an internet connection.

If you are considering using cloud computing, there are a few things you need to keep in mind:

- ❑ The type of cloud service you need: IaaS, PaaS, or SaaS

The security features offered by the cloud provider: Make sure the provider has the security features you need.

- ❑ The level of support offered by the cloud provider: Make sure you can get the support you need when you need it.

Cloud computing is a complex topic, but it is a powerful tool that can help businesses of all sizes save money, improve efficiency, and focus on their core competencies.

## Objectives

- ❑ Learn the basics of cloud computing: Cloud computing provides a comprehensive introduction to cloud computing, covering topics such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
- ❑ Get hands-on experience with IBM Cloud: Cloud computing includes a number of hands-on labs that allow you to learn by doing. You will learn how to create and manage cloud resources, deploy applications, and secure your cloud environment.
- ❑ Prepare for a career in cloud computing: Cloud computing is a great way to prepare for a career in cloud computing. The program covers the skills that are in demand in the cloud computing industry, such as DevOps, security, and cloud architecture.
- ❑ Gain a competitive advantage: Cloud computing can help you gain a competitive advantage in your career. The program will teach you how to use cloud computing to improve the efficiency and agility of your organization.

Here are some specific learning outcomes that you can expect from Cloud computing:

- ❑ Understand the benefits of cloud computing
- ❑ Identify the different types of cloud computing services
- ❑ Create and manage cloud resources



- ❑ Deploy applications to the cloud

Use DevOps practices to improve the development and deployment of applications

- ❑ Understand the security risks associated with cloud computing
- ❑ Design and implement a secure cloud environment

IBM Cloud Essentials is a valuable program for anyone who wants to learn about cloud computing. The program is comprehensive, hands-on, and relevant to the latest cloud computing technologies. If you are interested in a career in cloud computing, IBM Cloud Essentials is a great place to start.

### IMPORTANCE

Cloud computing is a valuable program that can help you learn about cloud computing and gain the skills you need to succeed in this growing field. Here are some of the importance of IBM Cloud Essentials:

- ❑ It is a comprehensive program that covers the basics of cloud computing. The program covers topics such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
- ❑ It is a hands-on program that allows you to learn by doing. The program includes a number of labs that give you the opportunity to practice what you have learned.
- ❑ It is a vendor-neutral program that teaches you the skills that are in demand in the cloud computing industry. The program does not focus on any particular cloud provider,

so you can learn the skills that are transferable to any cloud platform.

- ❑ It is a self-paced program that you can complete at your own convenience. This makes it a great option for busy professionals who want to learn about cloud computing without having to commit to a full-time program.
- ❑ It is an affordable program that is accessible to everyone. The program is offered at a very affordable price, so you can learn about cloud computing without breaking the bank.

If you are interested in learning about cloud computing and gaining the skills you need to succeed in this growing field, then Cloud computing is a great place to start.

## Applicability

Cloud computing is a program that can be applied to a wide range of industries and roles. Here are some examples of how the program can be applied:

- ❑ IT professionals: IT professionals can use the program to learn about the latest cloud computing technologies and how to use them to improve the efficiency and agility of their organizations.
- ❑ Developers: Developers can use the program to learn about cloud-native development and how to build and deploy applications on the cloud.
- ❑ Businesses: Businesses can use the program to learn about the benefits of cloud computing and how to use it to lower costs, improve security, and increase agility.
- ❑ Students: Students can use the program to learn about cloud computing and gain the skills they need to succeed in this growing field.
- ❑ Anyone interested in learning about cloud computing: Anyone who is interested in learning about cloud computing can benefit from the Board Infinity program.

The program is designed to be flexible and adaptable, so it can be applied to a variety of situations and needs. If you are interested in learning about cloud computing Cloud Essentials is a great place to start.

## Relevance

Cloud computing is a program that is relevant to the latest cloud computing technologies. The program covers topics such as containers, microservices, DevOps, and security, which are all essential skills for cloud computing professionals.

The program is also relevant to the needs of businesses. Businesses are increasingly adopting cloud computing to lower costs, improve agility, and innovate faster. Cloud computing can help businesses learn about the benefits of cloud computing and how to use it to achieve their goals.

The program is also relevant to the needs of developers. Developers need to understand cloud computing in order to build and deploy applications that are scalable, reliable, and secure. Cloud computing can help developers learn the skills they need to succeed in the cloud-native world.

Overall, Board infinity is a relevant program that can help you learn about cloud computing and gain the skills you need to succeed in this growing field.

## Scope and Technology learnt

- ❑ Cloud Fundamentals: This module introduces the basic concepts of cloud computing, such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
- ❑ Containers: This module introduces containers, which are a way to package and deploy applications.
- ❑ Microservices: This module introduces microservices, which are a way to architect applications.
- ❑ DevOps: This module introduces DevOps, which is a way to combine development and operations.

These are just a few of the technologies you can learn about in Cloud Essentials. The program also covers a variety of other topics, such as data analytics, machine learning, and artificial intelligence.

If you are interested in learning more about cloud computing, Cloud Essentials is a great place to start. The program is designed for beginners, and it provides a comprehensive overview of the cloud computing landscape.

## Now Deployment of a Web Project in Amazon Web Services (AWS)

### 1. Introduction

In the dynamic landscape of cloud computing and the vast ecosystem provided by Amazon Web Services (AWS), my internship at Board Infinity was an enriching experience that deepened my understanding of cloud technologies. Throughout this internship, I gained practical insights into AWS services, cloud architecture, and their pivotal role in powering innovative solutions.

As part of this immersive learning journey, I undertook a hands-on project aimed at converging cloud computing proficiency with the burgeoning field of conversational artificial intelligence.

In the dynamic landscape of digital communication, Amazon Lex stands as a cornerstone within the Amazon Web Services (AWS) suite, offering a sophisticated platform for the development of conversational chatbots. Amazon Lex excels in natural language understanding, employing cutting-edge deep learning algorithms to enable chatbots to decipher and interpret user inputs effectively. Its versatile framework allows developers to define intents, representing user goals, and slots, facilitating the extraction of crucial information from conversational exchanges.

An inherent strength of Amazon Lex lies in its seamless integration with AWS Lambda, enabling developers to embed custom business logic and backend processes directly into the chatbot's workflow. This integration not only enhances the bot's responsiveness but also opens avenues for creating highly tailored and context-aware conversational experiences. The synergy between Lex and Lambda

provides developers with a powerful toolkit to build intelligent chatbots capable of handling a myriad of tasks.

Businesses across industries find Amazon Lex applicable to a multitude of use cases. From automating customer support interactions to guiding users through e-commerce processes, and facilitating internal workflows, Lex-powered chatbots prove invaluable in enhancing operational efficiency and user satisfaction. Moreover, the service's scalability and robust security measures, including Identity and Access Management (IAM) controls, guarantee a reliable and secure environment for deploying chatbot solutions at scale.

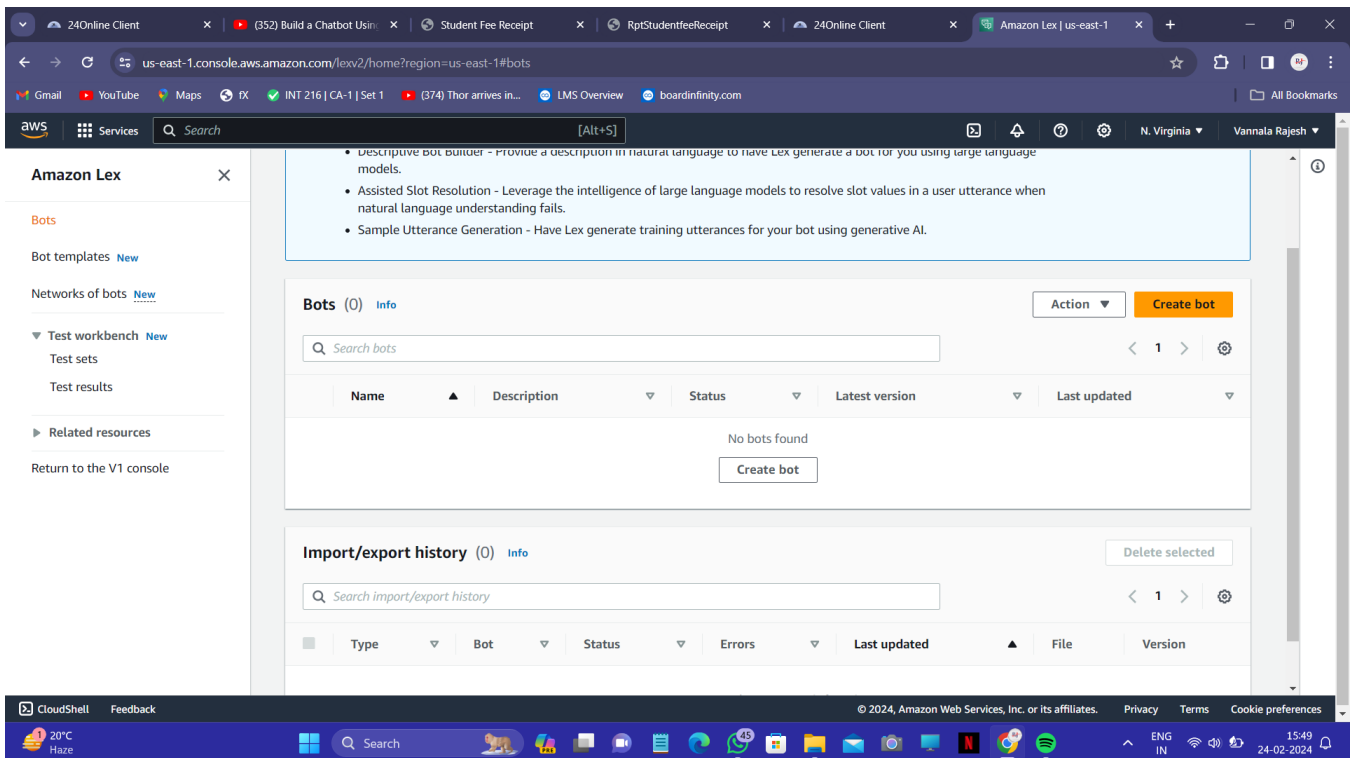
In summary, Amazon Lex emerges not only as a pioneering platform for crafting conversational interfaces but also as a catalyst for innovation in user interaction and engagement. Its integration with AWS Lambda, support for multiple messaging platforms, and adaptability to diverse business needs position it as a compelling tool for businesses aiming to stay at the forefront of conversational AI technologies.

Lets create a simple chatbot (Appointment Scheduler) with AWS Lex

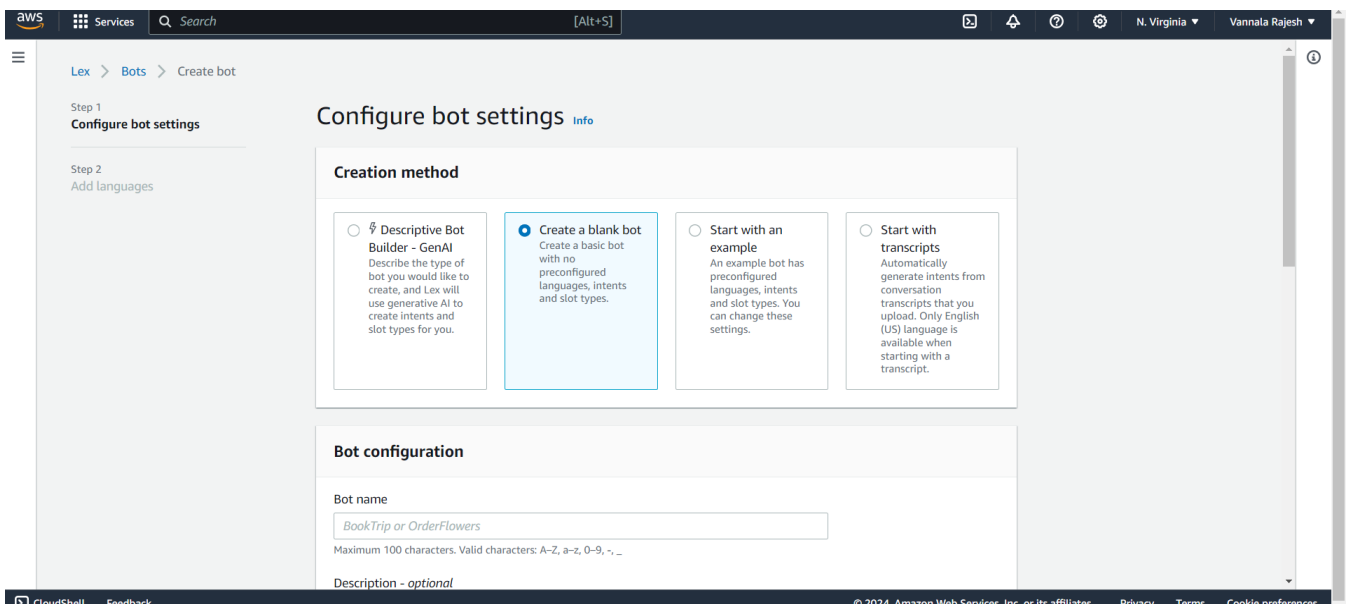
Create a Aws Account and open amazon lex

Amazon Lex extends its impact by offering compatibility with various messaging platforms, making it easy for developers to deploy chatbots across a spectrum of communication channels. Whether interacting on Facebook Messenger, Slack, or other platforms, Lex-powered chatbots provide a consistent and engaging experience. This

adaptability broadens the reach of chatbots, ensuring accessibility for users across diverse communication mediums.

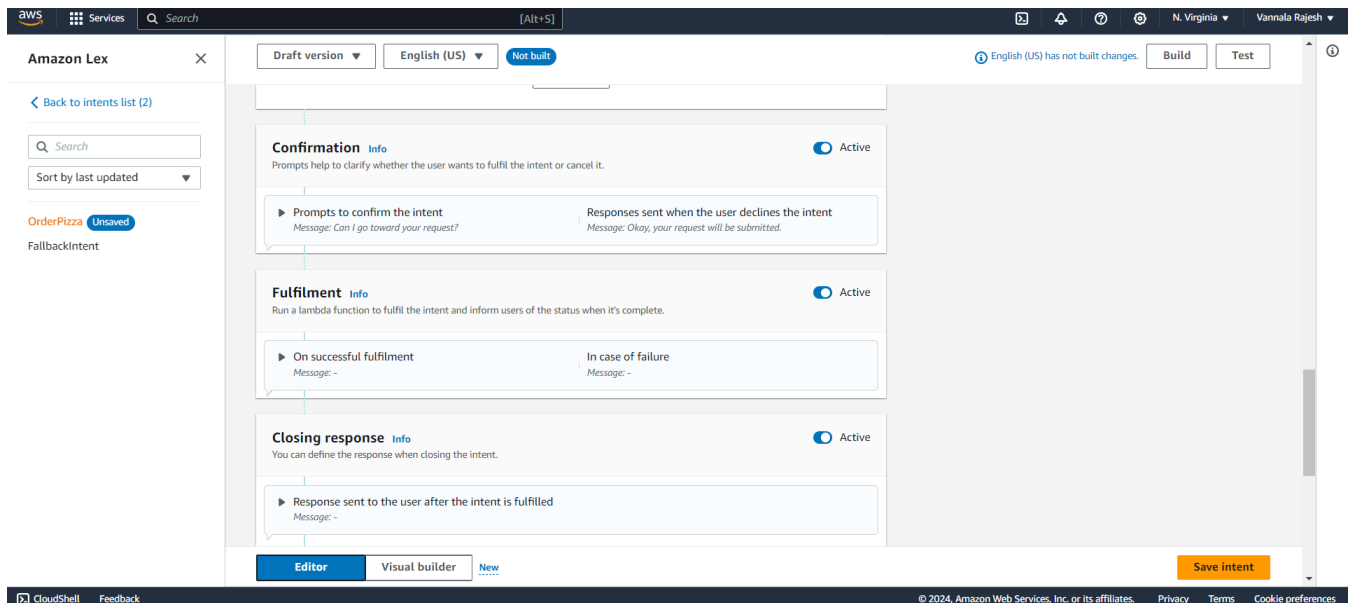


Here we have to create a blank bot



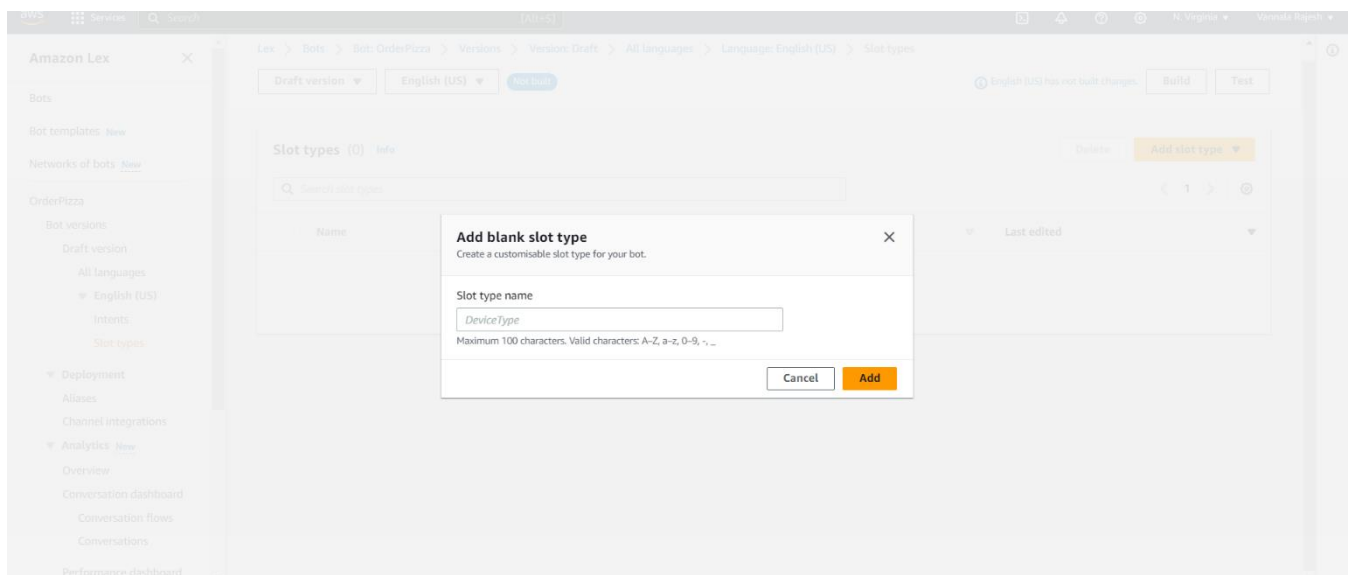
After creating the blank bot we have fill the intents as per our required so that the bot will reply according to that.



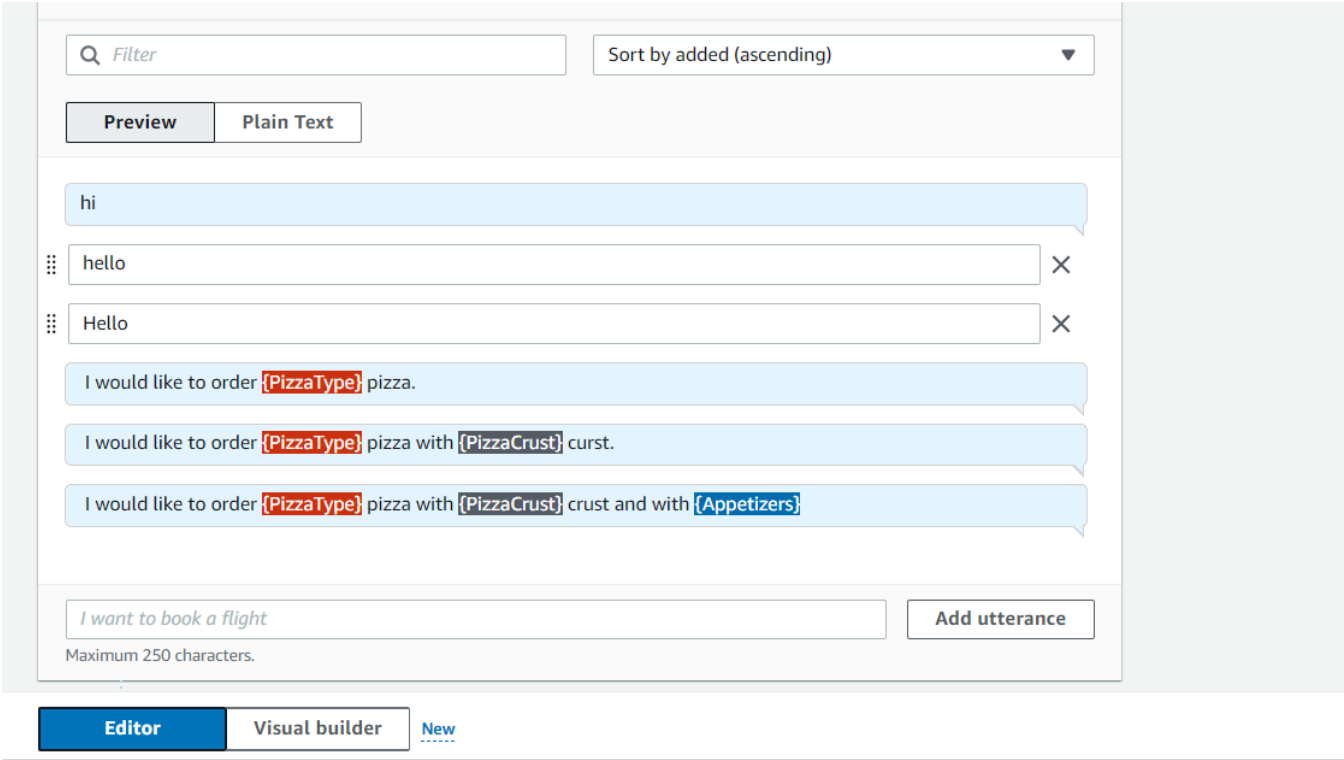
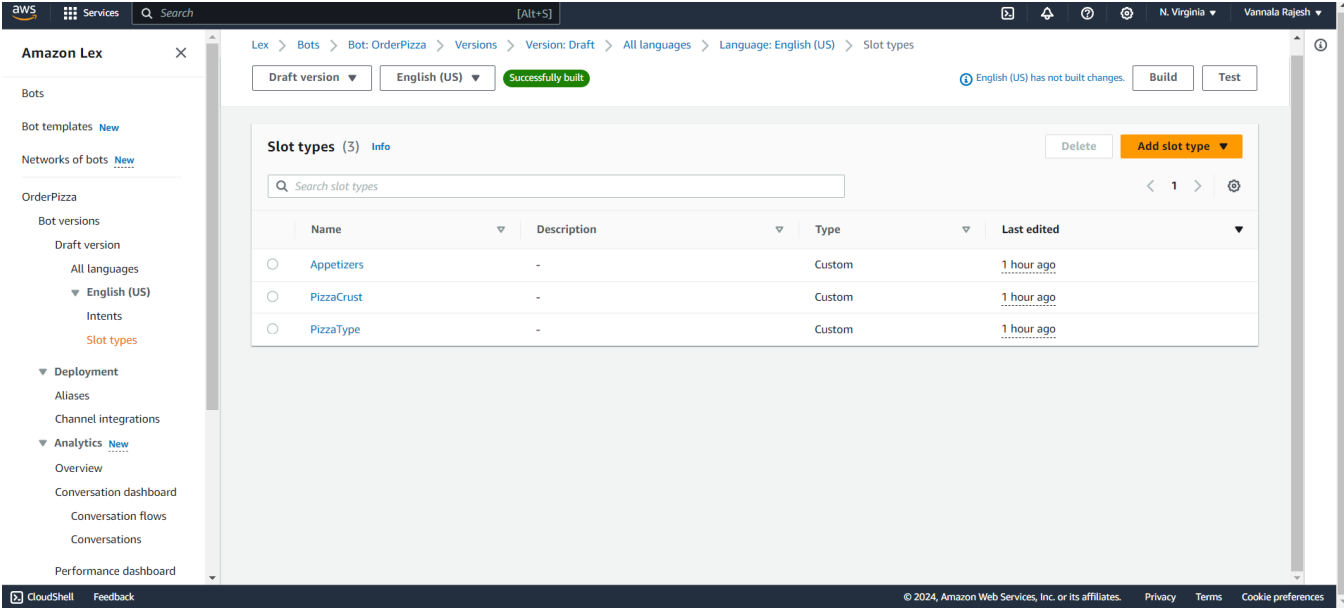


After entering the intents now, we have to create a slot types

In Amazon Lex, a "slot type" is a way to define the expected type of data that a user should provide for a specific slot within an intent. Slots are parameters that represent the information your chatbot needs to fulfill a user's request, and slot types help define and validate the kind of input the bot should expect for each slot.



# These are the slot types I created in this chatbot



Amazon Lex

Back to intents list (2)

Search

Sort by last updated

OrderPizza

FallbackIntent

Successfully built language English (US) in bot: OrderPizza

Lex

Bots

Bot: OrderPizza

Versions

Version: DRAFT

All languages

Language: English (US)

Intents

Intent: OrderPizza

Draft version

English (US)

Successfully built

Build

Test

Intent: OrderPizza

Info

An intent represents an action that fulfils a user's request. Intents can have arguments called slots that represent variable information.

Conversation flow

Info

Intent details

Info

Intent name

OrderPizza

Maximum 100 characters. Valid characters: A-Z, a-z, 0-9, -, \_

Intent and utterance generation description

Describe the purpose of your intent. This will also be used when generating utterances for your intent.

This bot helps in ordering a pizza

Maximum 200 characters.

Editor

Visual builder

New

Save intent

CloudShell

Feedback

aws

Services

Search

[Alt+S]

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Amazon Lex

Back to intents list (2)

Search

Sort by last updated

OrderPizza

FallbackIntent

Draft version

English (US)

Not built

English (US) has not built changes.

Build

Test

Filter

Prompt for slot: Name

Slot type

AMAZON.FirstName

Message: Hello! May I know your name?

Prompt for slot: PizzaType

Slot type

PizzaType

Message: Welcome to the pizza Center, (Name), Whic...

Prompt for slot: PizzaCrust

Slot type

PizzaCrust

Message: Sure. What crust would you like to have wit...

Prompt for slot: Appetizers

Slot type

Appetizers

Message: Would you like a cake or a cake in your order?

Prompt for slot: DeliveryTime

Slot type

Confirmation

Info

Active

Prompts help to clarify whether the user wants to fulfil the intent or cancel it.

Prompts to confirm the intent

Responses sent when the user declines the intent

Editor

Visual builder

New

Save intent

CloudShell

Feedback

aws

Services

Search

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Slot types (3)

Search

Sort by last updated

Appetizers

PizzaCrust

PizzaType

Draft version

English (US)

Not built

English (US) has not built changes.

Build

Test

Expand values (default)

Values used as training data.

Restrict to slot values

Use only values provided.

Slot type values

Modify the list of values used to train the machine-learning model to recognise values for a slot.

Search slot type values

Cake

Tab or ; for a new value

cake

choco cake

Coke

Tab or ; for a new value

cold drink

cola

cool drink

None

Tab or ; for a new value

Add value

no

none

Maximum 140 characters. Valid characters: A-Z, a-z, 0-9, @, #, \$

☐ Use slot values as custom vocabulary.

Info

Save slot type

CloudShell

Feedback

aws

Services

Search

[Alt+S]

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https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1

19

aws

Services

Search

[Alt+S]

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Amazon Lex

Back to intents list (2)

Search

Sort by last updated

OrderPizza Unsaved

FallbackIntent

Draft version

English (US)

Not built

English (US) has not built changes.

Build

Test

Closing response Info

Active

You can define the response when closing the intent.

Response sent to the user after the intent is fulfilled

Message: Thank you {Name}. Your order is confirmed and will be delivered by {DeliveryTime}.

Message group Info

You can define a text message group to respond using plain text.

Message

Thank you {Name}. Your order is confirmed and will be delivered by {DeliveryTime}.

Variations - optional

More response options

Add customisable payloads, SSML and card groups.

Set values

Next step in conversation

End conversation

Add conditional branching

Editor

Visual builder

New

Save intent

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Back to intents list (2)

Search

Sort by last updated

OrderPizza Unsaved

FallbackIntent

Draft version

English (US)

Not built

English (US) has not built changes.

Build

Test

Confirmation Info

Active

Prompts help to clarify whether the user wants to fulfil the intent or cancel it.

Prompts to confirm the intent

Message: Your order details: {Pizza\_Type} pizza with {...

Responses sent when the user declines the intent

Message: You have cancelled your order. Nudge me ag...

Confirmation prompt

What will the bot say to prompt the user to confirm this intent.

Your order details: {Pizza\_Type} pizza with {Pizza\_crust} crust. Appetizers: {Appetizer}

Decline response

What will the bot say if the user says NO to the confirmation prompt.

You have cancelled your order. Nudge me again if you want to order.

Advanced options

Configure confirmation prompts and decline responses.

Fulfilment Info

Active

Run a lambda function to fulfil the intent and inform users of the status when it's complete.

On successful fulfilment

In case of failure

Editor

Visual builder

New

Save intent

CloudShell

Feedback

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Amazon Lex

Back to intents list (2)

Search

Sort by last updated

OrderPizza Unsaved

FallbackIntent

Draft version

English (US)

Not built

English (US) has not built changes.

Build

Test

Filter

Prompt for slot: Name

Slot type

AMAZON.FirstName

Prompt for slot: Pizza\_Type

Slot type

Pizza\_Type

Prompt for slot: Pizza\_Crust

Slot type

Pizza\_Crust

Prompt for slot: Appetizers

Slot type

Appetizers

Prompt for slot: DeliveryTime

Slot type

AMAZON.Time

Confirmation Info

Active

Editor

Visual builder

New

Save intent

CloudShell

Feedback

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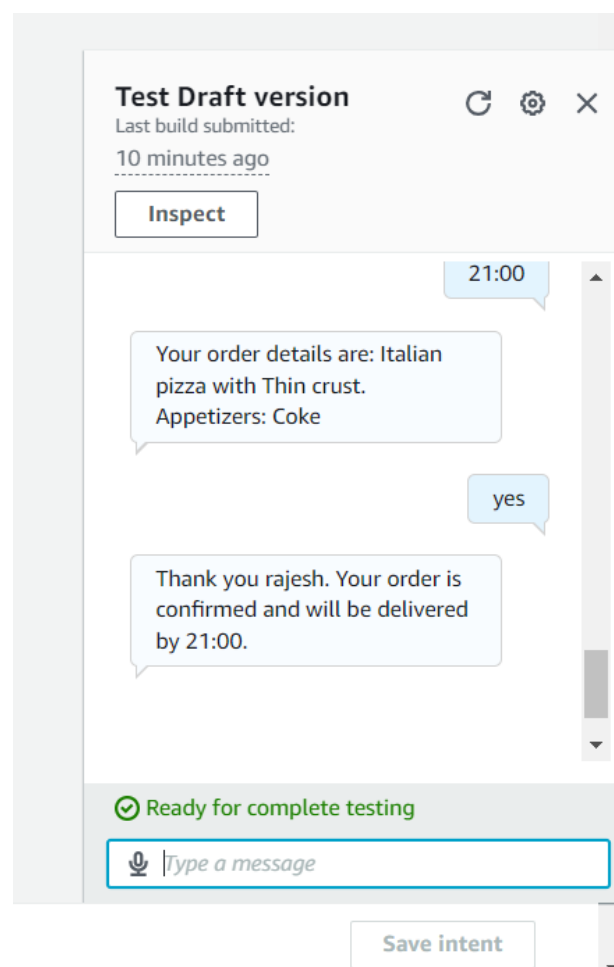
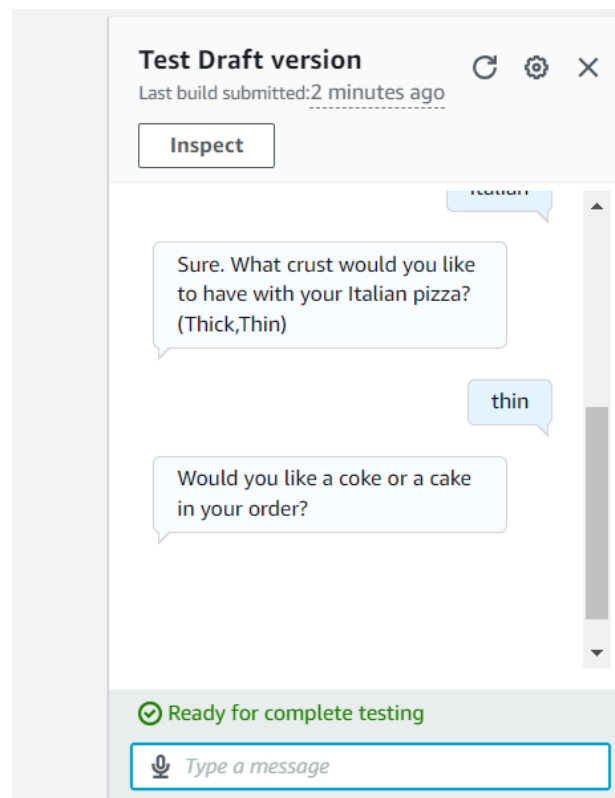
Terms

Cookie preferences

Amazon Lex console interface showing the configuration of an intent named "OrderPizza". The interface includes a left sidebar with navigation options like "Back to intents list (2)", a search bar, and a list of intents. The main area displays the configuration for the "OrderPizza" intent, which is currently in a "Draft version" and "Not built" state. The configuration includes prompts for slots: "Name" (slot type: AMAZON.FirstName), "Pizza\_Type" (slot type: Pizza\_Type), and "Pizza\_Crust" (slot type: Pizza\_Crust). A confirmation prompt is also configured, asking "Can I go toward your request?". The interface includes buttons for "Build", "Test", and "Save intent". The bottom status bar shows the URL "https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1" and copyright information "© 2024, Amazon Web Services, Inc. or its affiliates."

Amazon Lex console interface showing the configuration of an intent named "OrderPizza" after it has been successfully built. The interface includes a left sidebar with navigation options like "Back to intents list (2)", a search bar, and a list of intents. The main area displays the configuration for the "OrderPizza" intent, which is now in a "Successfully built" state. The configuration includes prompts for slots: "DeliveryTime" (slot type: AMAZON.Time). A confirmation prompt is also configured, asking "Your order details are: {PizzaType} pizza with {PizzaCrust} crust. Appetizers: {Appetizers}". The interface includes buttons for "Build", "Test", and "Save intent". A "Test Draft version" panel is visible on the right, showing a chat conversation with the bot. The bottom status bar shows the URL "https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1" and copyright information "© 2024, Amazon Web Services, Inc. or its affiliates."

## Output



## Use of cloud essentials

Cloud Essentials can be used for a variety of purposes, including:

- ❑ Learning about cloud computing: Cloud Essentials is a great way to learn about the basics of cloud computing, such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
- ❑ Gaining hands-on experience with cloud computing: Cloud Essentials includes a number of hands-on labs that allow you to practice what you have learned. This is a great way to get experience with cloud computing and to see how it can be used to solve real-world problems.
- ❑ Preparing for a career in cloud computing: Cloud Essentials can help you prepare for a career in cloud computing by giving you the skills and knowledge you need to succeed in this growing field.
- ❑ Improving your understanding of cloud computing: Whether you are a beginner or an experienced professional, Cloud Essentials can help you improve your understanding of cloud computing. The program covers a wide range of topics, including cloud computing fundamentals, security, and cost management.
- ❑ Staying up-to-date on the latest cloud computing technologies: Cloud Essentials is constantly updated with new content to ensure that you are learning about the latest cloud computing technologies. This is important for anyone who wants to stay ahead of the curve in this rapidly

changing field.

Overall, Cloud Essentials is a valuable resource for anyone who wants to learn about cloud computing. The program is comprehensive, hands-on, and relevant to the latest cloud computing technologies. If you are interested in cloud computing, I encourage you to check out Cloud Essentials.

Here are some specific examples of how Cloud Essentials can be used:

- ❑ A software developer can use Cloud Essentials to learn about cloud-native development and how to build and deploy applications on the cloud.
- ❑ A business analyst can use Cloud Essentials to learn about the benefits of cloud computing and how to use it to improve the efficiency and agility of their organization.
- ❑ A IT manager can use Cloud Essentials to learn about the security features of cloud computing and how to protect their organization's data.
- ❑ A student can use Cloud Essentials to learn about cloud computing and gain the skills they need to succeed in this growing field.

Cloud Essentials is a versatile program that can be used by a variety of people for a variety of purposes.



## **Chapter 2**

The learning outcomes of the program include:

- ❑ Understand the benefits of cloud computing
- ❑ Identify the different types of cloud computing services
- ❑ Create and manage cloud resources
- ❑ Deploy applications to the cloud
- ❑ Secure your cloud environment
- ❑ Use DevOps practices to improve the development and deployment of applications
- ❑ Understand the security risks associated with cloud computing
- ❑ Design and implement a secure cloud environment

The program also includes a number of hands-on labs that allow you to practice what you have learned.

Here are some specific learning outcomes that you can expect from IBM Cloud Essentials:

- ❑ Understand the different types of cloud computing services, such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
- ❑ Create and manage cloud resources, such as virtual machines, storage, and networks.

- ❑ Deploy applications to the cloud, such as web applications, mobile applications, and big data applications.
- ❑ Secure your cloud environment, such as by using firewalls, intrusion detection systems, and encryption.
- ❑ Use DevOps practices to improve the development and deployment of applications, such as by using continuous integration and continuous delivery (CI/CD).
- ❑ Understand the security risks associated with cloud computing, such as data breaches and denial-of-service attacks.
- ❑ Design and implement a secure cloud environment, such as by using security best practices and by implementing security controls.

## Conclusion

In conclusion, creating a chatbot with Amazon Lex offers a streamlined and powerful solution for developers and businesses seeking to implement conversational interfaces. By following the outlined steps, users can define intents, configure slots, integrate custom business logic with AWS Lambda, and deploy chatbots that understand and respond to natural language inputs. Amazon Lex's seamless integration with messaging platforms and scalability ensures a wide reach and adaptability to diverse communication channels. As businesses deploy Lex-powered chatbots for customer support, e-commerce, and various internal processes, they benefit from the service's advanced natural language understanding, robust security measures, and the flexibility to iterate and optimize based on user feedback. Embracing Amazon Lex not only simplifies the development of intelligent chatbots but also positions businesses at the forefront of conversational AI, enhancing user engagement and fostering innovation in digital interactions.

Moreover, the versatility of Amazon Lex extends beyond simple text-based interactions, as it supports rich media and multi-turn conversations, allowing for more engaging and interactive user experiences. By leveraging Lex's capabilities, businesses can automate repetitive tasks, streamline customer interactions, and enhance operational efficiency across various domains.

Furthermore, the deployment of Lex-powered chatbots opens doors to valuable insights and analytics through integration with AWS CloudWatch, enabling businesses to track performance metrics, analyze user interactions, and iterate on their chatbot designs based on real-world data.

As organizations embrace conversational AI technologies, Amazon Lex serves as a catalyst for innovation, driving advancements in customer service, marketing, sales, and beyond. By harnessing the power of natural language understanding and intelligent automation, businesses can stay ahead of the curve, delivering personalized and efficient experiences that resonate with users in today's digital landscape. In essence, Amazon Lex represents not only a tool for building chatbots but a gateway to transformative possibilities in the realm of human-computer interaction.

As a synthesis of knowledge gained during an internship in cloud computing and AWS, this project serves as a tangible representation of the skills acquired. It goes beyond a mere technological demonstration, embodying the spirit of innovation, problem-solving, and the application of theoretical cloud computing concepts in a practical scenario.

## References:

Borad infinity  
YouTube  
Google search  
AWS