

# uCertify

## Course Outline

### Amazon Web Services For Mobile Developers



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Chapter 20: Accessing Amazon DynamoDB

Chapter 21: Adding AWSChat Support with Amazon DynamoDB and Amazon S3

Chapter 22: Using AWS Lambda to Generate Thumbnails

Videos and How To

## 1. Course Objective

Get yourself enrolled in the Amazon Web Services For Mobile Developers course to learn AWS mobile app development. The AWS training course covers the aspects of Amazon IAM, Amazon Cognito, Amazon S3, Amazon DynamoDB, AWS Lambda, AWS Device Farm, Amazon SNS, and Amazon Mobile Analytics. The mobile app development course is designed for both iOS and Android developers who want to learn to leverage aspects of the Amazon cloud from their applications.

## 2. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 3. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 4. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 5. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 6. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## Syllabus

## Chapter 1: Introduction

- Who This course Is For?
- What This course Covers?
- How This course Is Structured?
- What You Need to Use This course?
- Conventions

## Chapter 2: Introduction to Cloud Computing and Amazon Web Services

- What Is Cloud Computing?
- Cloud Service Models
- Cloud Deployment Models
- The AWS Ecosystem
- Sign Up for an AWS Free Tier Account
- Summary

## Chapter 3: Regions, Availability Zones, and Edge Locations

- Regions and Availability Zones
- Edge Locations
- Accessing AWS

- Summary

## Chapter 4: AWS Identity and Access Management

- Key Concepts
- Common Tasks
- Summary

## Chapter 5: Amazon EC2

- Key Concepts
- Common Tasks
- Accessing Amazon EC2 Instances Using the AWS CLI
- Summary

## Chapter 6: Amazon S3

- Key Concepts
- Common Tasks
- Summary

## Chapter 7: Amazon DynamoDB

- Key Concepts

- Common Tasks
- Summary

## Chapter 8: AWS Lambda

- Common Use Cases for AWS Lambda
- Key Concepts
- Common Tasks
- Summary

## Chapter 9: Integrating the AWS SDK for iOS

- Integrating the AWS SDK for iOS Using CocoaPods
- Integrating the AWS SDK for iOS Using Carthage
- Integrating the AWS SDK for iOS Using Dynamic Frameworks
- Summary

## Chapter 10: Implementing User Signup and Login Using Amazon Cognito User Pools

- Introducing Amazon Cognito User Pools
- Examining the AWSChat Xcode Project
- Creating an Amazon Cognito User Pool

- Retrieving the App Client Secret
- Updating the AWS Chat Application
- Summary

## Chapter 11: Implementing Login Using Facebook

- Creating an App on Facebook
- Adding the Facebook SDK to the Xcode Project
- Creating an Amazon Cognito Identity Pool
- Updating the Application User Interface
- Summary

## Chapter 12: Implementing Login Using Google

- Adding the Google SDK to the Xcode Project
- Updating the Identity Pool
- Updating the AWSChat Application
- Summary

## Chapter 13: Accessing Amazon DynamoDB

- Creating Amazon DynamoDB Tables
- Populating the User Table with an AWS Lambda Function

- Testing the AWS Lambda Function
- Updating the AWSChat App
- Summary

## Chapter 14: Adding AWSChat Support with Amazon DynamoDB and Amazon S3

- Updating the DynamoDBController Class
- Configuring Amazon S3
- Creating the S3Controller Class
- Updating the ChatManager Class
- Updating the User Interface of the App
- Summary

## Chapter 15: Using AWS Lambda to Generate Thumbnails

- Creating a Node.JS Lambda Function Deployment Package
- Updating the AWS Lambda Execution Service Role
- Creating an AWS Lambda Function Using the AWS Management Console
- Testing the AWS Lambda Function
- Updating the S3Controller Class
- Updating the ChatManager Class

- Updating the User Interface of the App
- Summary

## Chapter 16: Integrating the AWS SDK for Android with Android Studio

- Integrating the AWS SDK for Android Using Gradle
- Integrating the AWS SDK for Android by Importing JAR Files
- Summary

## Chapter 17: Implementing User Signup and Login Using Amazon Cognito User Pools

- Introducing Amazon Cognito User Pools
- Examining the AWSChat Android Studio Project
- Creating an Amazon Cognito User Pool
- Retrieving the App Client Secret
- Updating the AWS Chat Application
- Summary

## Chapter 18: Implementing Login Using Facebook

- Creating an App on Facebook
- Adding the Facebook SDK to the Android Studio Project

- Creating an Amazon Cognito Identity Pool
- Updating the Application User Interface
- Summary

## Chapter 19: Implementing Login Using Google

- Installing the Google Play Services SDK
- Creating an App on the Google Developer Console
- Updating the Android Studio Project
- Updating the Identity Pool
- Updating the Identity Pool Controller Class
- Updating the Application User Interface
- Summary

## Chapter 20: Accessing Amazon DynamoDB

- Creating Amazon DynamoDB Tables
- Populating the User Table with an AWS Lambda Function
- Testing the AWS Lambda Function
- The User Class
- The Friend Class

- The Chat Class
- The ChatManager Class
- The DynamoDBController Class
- Linking the User Pool to the Identity Pool
- The Updated Home Activity
- The AddFriendActivity Class
- Summary

## Chapter 21: Adding AWSChat Support with Amazon DynamoDB and Amazon S3

- Updating Project Settings
- Updating the DynamoDBManager Class
- Configuring Amazon S3
- Creating the S3Controller Class
- Updating the ChatManager Class
- Updating the User Interface of the App
- Summary

## Chapter 22: Using AWS Lambda to Generate Thumbnails

- Creating a Node.js Lambda Function Deployment Package

- Creating an AWS Lambda Function Using the AWS Management Console
- Testing the AWS Lambda Function
- Updating the S3Controller Class
- Updating the ChatManager Class
- Updating the User Interface of the App
- Summary

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