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# **Space Aliens - CircuitPython Game**

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**Jan 23, 2020**



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Today, I have:

1. created a new Cloud9 instance
2. connected the root of Cloud9 instance to my forked GitHub repo
3. create index.html file in the root of Cloud9
4. update GitHub repo
5. create Amplify instance connected to GitHub repo



# CHAPTER 1

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January 08

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I have created a role in IAM, for Lambda to access DynamoDB





## CHAPTER 2

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January 09

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Today I have:

1. created a new Lambda function
2. added in the Boto3 library to access the database
3. query the database to return a row of information
4. returned the row in JSON format from the lambda function

I also practiced and learned what would happen if no actual data is given (ex: fake email that doesn't exist in the table)

5. created a DynamoDB table
6. placed some data into my database for testing
7. changed the "capacity" of the database

I also worked on Boto3 to deal with the decimal problem in the age number.



## CHAPTER 3

January 10 & 13

I have worked on the following:

1. API GATEWAY
2. Error handling
3. HTML
4. Cognito
5. Sign in
6. Sign out

Listing 1: index

```
<!DOCTYPE html>
<html>
  <head>
    <title>AWS serverless web app</title>
  </head>
  <body>
    <p><a href="https://protect-your-home.auth.us-east-1.amazoncognito.com/signup?
↪client_id=5kuvupcm2totvfsfh2a73lehd&response_type=code&scope=aws.cognito.signin.
↪user.admin+email+openid+phone+profile&redirect_uri=https://example.com">Sign up</a>
↪</p>
    <p><a href="./sign-in.html">Sign in</a></p>
    <p><a href="./sign-out.html">Sign out</a></p>
  </body>
</html>
```

Listing 2: sign-in

```
<!DOCTYPE html>
<html lang="en">
```

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```

<head>
<meta charset="utf-8">

<!-- Javascript SDKs-->
<script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
<script src="js/amazon-cognito-auth.min.js"></script>
<script src="https://sdk.amazonaws.com/js/aws-sdk-2.596.0.min.js"></script>
<script src="js/amazon-cognito-identity.min.js"></script>
<script src="js/config.js"></script>
</head>

<body>
<form>
  <h1>Please sign in</h1>

  <input type="text" id="inputUsername" placeholder="Email address" name=
↪ "username" required autofocus>
  <input type="password" id="inputPassword" placeholder="Password" name="password
↪ " required>
  <button type="button" onclick="signInButton()">Sign in</button>
</form>

<br>
<div id='logged-in'>
  <p></p>
</div>

<p>
  <a href="./profile.html">Profile</a>
</p>

<br>
<div id='home'>
  <p>
    <a href='./index.html'>Home</a>
  </p>
</div>

<script>

  var data = {
    UserPoolId : _config.cognito.userPoolId,
    ClientId : _config.cognito.clientId
  };
  var userPool = new AmazonCognitoIdentity.CognitoUserPool(data);
  var cognitoUser = userPool.getCurrentUser();

  function signInButton() {
    // sign-in to AWS Cognito

    var authenticationData = {
      Username : document.getElementById("inputUsername").value,
      Password : document.getElementById("inputPassword").value,
    };

    var authenticationDetails = new AmazonCognitoIdentity.
↪ AuthenticationDetails(authenticationData);

```

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```

var poolData = {
  UserPoolId : _config.cognito.userPoolId, // Your user pool id here
  ClientId : _config.cognito.clientId, // Your client id here
};

var userPool = new AmazonCognitoIdentity.CognitoUserPool(poolData);

var userData = {
  Username : document.getElementById("inputUsername").value,
  Pool : userPool,
};

var cognitoUser = new AmazonCognitoIdentity.CognitoUser(userData);

cognitoUser.authenticateUser(authenticationDetails, {
  onSuccess: function (result) {
    var accessToken = result.getAccessToken().getJwtToken();
    console.log(result);

    //get user info, to show that you are logged in
    cognitoUser.getUserAttributes(function(err, result) {
      if (err) {
        console.log(err);
        return;
      }
      console.log(result);
      document.getElementById("logged-in").innerHTML = "You are logged in_
↪as: " + result[2].getValue();
    });

    },
    onFailure: function(err) {
      alert(err.message || JSON.stringify(err));
    },
  });
}
</script>

</body>
</html>

```



## CHAPTER 4

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January 14 - 17

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Brief summary of multiple days





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#### **5.1 Start Scene**

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#### **5.2 Splash Scene**

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#### **5.3 Game Over Scene**

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