```
<template>
  <div>
    <div>
      <v-card class="mx-auto" max-width="344" outlined>
        <v-card-title>DynamoDb tutorial</v-card-title>
        <v-card-actions>
          <div class="d-flex flex-column justify-center">
            <v-btn color="primary" @click="addItem()">Add item to table</v-btn>
            <br />
            <v-btn color="primary" @click="deleteItem()">Delete item</v-btn>
            <br />
            <v-btn color="primary" @click="getItem()">Get item out table</v-btn>
            <br />
            <v-btn color="primary" @click="updateItem()">Update item</v-btn>
          </div>
        </v-card-actions>
      </v-card>
    </div>
  </div>
</template>

<script>
const AWS = require("aws-sdk");
// Set the region where your identity pool exists
AWS.config.region = "eu-west-1";

// Configure the credentials provider to use your identity pool
AWS.config.credentials = new AWS.CognitoIdentityCredentials({
  IdentityPoolId: "eu-west-1:c413ea15-7a3c-4f9d-b133-afc5b06ccaae"
});

export default {
  data() {
    return {
      credentials: null
    };
  },
  computed: {},
  created() {
    if (this.credentials) {
      // have credentials
      console.log("in created(), have credentials");
    } else {
      // no credentials
      console.log("in created(), getting credentials...");
      this.credentials = this.getCredentials();
    }
  },
  methods: {
    getCredentials() {
      console.log("in getCredentials()");

      var promise = AWS.config.credentials.getPromise();
      promise.then(
        function() {
          console.log("result...");
          var creds = {
            accessKeyId: AWS.config.credentials.accessKeyId,
            secretAccessKey: AWS.config.credentials.secretAccessKey,
            sessionToken: AWS.config.credentials.sessionToken
          };
          console.log("got credentials: " + JSON.stringify(creds, null, 2));
          return creds;
        },
        function(err) {
          console.log("err..." + JSON.stringify(err, null, 2));
          return null;
        }
      );
    },
    addItem() {
      console.log("in addItem()");
      // adds given item
      var docClient = new AWS.DynamoDB.DocumentClient({
        apiVersion: "2012-08-10"
      });

      var params = {
        TableName: "TestDynamo",
        Item: {
          phone: "123456789",
          name: "Bob"
        }
      };

      if (this.credentials) {
        console.log("in addItem(), have credentials, adding item...");
        docClient.put(params, function(err, data) {
          if (err) {
            console.log("Error adding item", JSON.stringify(err, null, 2));
          } else {
            console.log("Success adding item", JSON.stringify(data, null, 2));
          }
        });
      } else {
        console.log("in addItem(), credentials null, getting credentials...");

        var that = this;
        var promise = AWS.config.credentials.getPromise();
        promise.then(
          function() {
            console.log("in addItem(), got credentials, adding item...");
            var creds = {
              accessKeyId: AWS.config.credentials.accessKeyId,
              secretAccessKey: AWS.config.credentials.secretAccessKey,
              sessionToken: AWS.config.credentials.sessionToken
            };
            that.credentials = creds;
            docClient.put(params, function(err, data) {
              if (err) {
                console.log("Error adding item", JSON.stringify(err, null, 2));
              } else {
                console.log(
                  "Success adding item",
                  JSON.stringify(data, null, 2)
                );
              }
            });
          },
          function(err) {
            console.log(
              "err getting credentials..." + JSON.stringify(err, null, 2)
            );
            that.credentials = null;
          }
        );
      }
    },
    deleteItem() {
      // deletes item for given key
      console.log("in deleteItem()");

      var docClient = new AWS.DynamoDB.DocumentClient({
        apiVersion: "2012-08-10"
      });

      var params = {
        TableName: "TestDynamo",
        Key: {
          phone: "123456789"
        },ReturnValues:"NONE"
      };

      if (this.credentials) {
        console.log("in deleteItem(), got credentials....");

        docClient.delete(params, function(err, data) {
          if (err) {
            console.log(
              "error deleting item, err: " + JSON.stringify(err, null, 2)
            );
          } else {
            console.log(
              "success deleting item: " + JSON.stringify(data, null, 2)
            );
          }
        });
      } else {
        console.log("in deleteItem(), no credentials....getting credentials");
        var that = this;
        var promise = AWS.config.credentials.getPromise();
        promise.then(
          function() {
            console.log("in deleteItem(), got credentials, deleting item...");
            var creds = {
              accessKeyId: AWS.config.credentials.accessKeyId,
              secretAccessKey: AWS.config.credentials.secretAccessKey,
              sessionToken: AWS.config.credentials.sessionToken
            };
            that.credentials = creds;
            docClient.delete(params, function(err, data) {
              if (err) {
                console.log(
                  "error deleting item, err: " + JSON.stringify(err, null, 2)
                );
              } else {
                console.log(
                  "success deleting item: " + JSON.stringify(data, null, 2)
                );
              }
            });
          },
          function(err) {
            console.log(
              "err getting credentials..." + JSON.stringify(err, null, 2)
            );
            that.credentials = null;
          }
        );
      }
    },
    updateItem() {
      // updates (ovewrites) existing item, adds item if not exist, returns updated attributes
      console.log("in updateItem()");

      var docClient = new AWS.DynamoDB.DocumentClient({
        apiVersion: "2012-08-10"
      });

      var params = {
        TableName: "TestDynamo",
        Key: { phone: "123456789" },
        UpdateExpression: "set #n = :x",
        ExpressionAttributeNames: { "#n": "name" },
        ExpressionAttributeValues: {
          ":x": "Peter"
        },
        ReturnValues: "ALL_OLD"
      };

      if (this.credentials) {
        console.log("in updateItem(), got credentials....");

        docClient.update(params, function(err, data) {
          if (err) {
            console.log(
              "error updating item, err: " + JSON.stringify(err, null, 2)
            );
          } else {
            console.log(
              "success updating item: " + JSON.stringify(data, null, 2)
            );
          }
        });
      } else {
        console.log("in updateItem(), no credentials....getting credentials");
        var that = this;
        var promise = AWS.config.credentials.getPromise();
        promise.then(
          function() {
            console.log("in updateItem(), got credentials, updating item...");
            var creds = {
              accessKeyId: AWS.config.credentials.accessKeyId,
              secretAccessKey: AWS.config.credentials.secretAccessKey,
              sessionToken: AWS.config.credentials.sessionToken
            };
            that.credentials = creds;
            docClient.update(params, function(err, data) {
              if (err) {
                console.log(
                  "error updating item, err: " + JSON.stringify(err, null, 2)
                );
              } else {
                console.log(
                  "success updating item: " + JSON.stringify(data, null, 2)
                );
              }
            });
          },
          function(err) {
            console.log(
              "err getting credentials..." + JSON.stringify(err, null, 2)
            );
            that.credentials = null;
          }
        );
      }
    },
    getItem() {
      console.log("in getItem()");

      var docClient = new AWS.DynamoDB.DocumentClient({
        apiVersion: "2012-08-10"
      });

      var params = {
        TableName: "TestDynamo",
        Key: {
          phone: "123456789"
        }
      };

      if (this.credentials) {
        console.log("in getItem(), got credentials....");

        docClient.get(params, function(err, data) {
          if (err) {
            console.log(
              "error getting item, err: " + JSON.stringify(err, null, 2)
            );
          } else {
            console.log(
              "success getting item: " + JSON.stringify(data, null, 2)
            );
            if(data==null){
              console.log('data is null');
            }else{
              console.log('data is not null');

            }
          }
        });
      } else {
        console.log("in getItem(), no credentials....getting credentials");
        var that = this;
        var promise = AWS.config.credentials.getPromise();
        promise.then(
          function() {
            console.log("in addItem(), got credentials, getting item...");
            var creds = {
              accessKeyId: AWS.config.credentials.accessKeyId,
              secretAccessKey: AWS.config.credentials.secretAccessKey,
              sessionToken: AWS.config.credentials.sessionToken
            };
            that.credentials = creds;
            docClient.get(params, function(err, data) {
              if (err) console.log(err);
              else console.log(data);
            });
          },
          function(err) {
            console.log(
              "err getting credentials..." + JSON.stringify(err, null, 2)
            );
            that.credentials = null;
          }
        );
      }
    }
  }
};
</script>

```