```
package main
       "fmt"
       "github.com/aws/aws-sdk-go/aws"
        "github.com/aws/aws-lambda-go/lambda"
       "github.com/aws/aws-sdk-go/service/dynamodb/dynamodbattribute"
        "github.com/aws/aws-sdk-go/service/dynamodb/dynamodbiface
type dynamoDBAPI struct{
var dynamodbapi *dynamoDBAPI
func init(){
       databseStruct = new(types.DatabseStruct)
region := os.Getenv("AWS_REGION")
        dynamodbapi = new(dynamoDBAPI) // crate a setter that can be used for inserting
        sess, err := session.NewSession(&aws.Config{Region: &region},)
        databseStruct.SessionError = err
        svc := dynamodb.New(sess)
        dynamodbapi.DynamoDB = dynamodbiface.DynamoDBAPI(svc)
        if err != nil {
    fmt.Println("There is an error while creating database session: " + err.Error())
        fetchedTableName :=os.Getenv("DEVICES_TABLE_NAME")
        if len(fetchedTableName)==0 {
                databseStruct.TableName = nil;
                fmt.Println("It is not possible to fetch device tabel name")
  main AWS lambda function starting point.
  It gets some inputs from client as json, parse it and tries to insert it into dynamodb.
  valid input json is like types.Device struct
        // there is some internal server error
        if databseStruct.SessionError != nil || databseStruct.TableName == nil {
        // validate inputs of client's request (APIGatewayProxyRequest).
        newDevice, err := validateInputs(request)
        // if inputs are not suitable, return HTTP 400 error
        if err != nil {
                return events.APIGatewayProxyResponse{
                                        + err.Error(),
                        Bodv:
                        StatusCode: 400,
                }, nil
        _, err = dynamodbapi.insertItemToDatabase(newDevice)
        // If an internal error occured in the database , return HTTP error 500
        if err != nil {
                return events.APIGatewayProxyResponse{
                        Body:
                                     createErrorResponseJson(500,"Internal Server's Error occured"),
                        StatusCode: 500,
                }, nil
```

```
func validateInputs(request events.APIGatewayProxyRequest) (types.Device, error) {
        var errorFlag bool = false
        // Initialize device json object(struct)
        device := types.Device{
                ID:
                DeviceModel:
                Name:
                Note:
                Serial:
        errorMessage := ""
        if len(request.Body) == 0 {
                errorMessage = "No inputs provided, please provide inputs in json format."
                return types.Device{}, errors.New(createErrorResponseJson(400, errorMessage))
        var err = json.Unmarshal([]byte(request.Body), &device)
        if err != nil {
                errorMessage = "Wrong format: Inputs must be a valid json."
                return types.Device{}, errors.New(createErrorResponseJson(400, errorMessage))
        errorMessage = "Following fields are not provided: "
        if len(device.ID) == 0 {
                errorMessage += "id, "
                errorFlag = true
        if len(device.DeviceModel) == 0 {
                errorMessage += "deviceModel, "
                errorFlag = true
        if len(device.Name) == 0 {
                errorMessage += "name, "
                errorFlag = true
        if len(device.Note) == 0 {
                errorMessage += "note, "
                errorFlag = true
        if len(device.Serial) == 0 {
                errorMessage += "serial, "
                errorFlag = true
        if errorFlag == true {
                return types.Device{}, errors.New(createErrorResponseJson(400, errorMessage))
        return device, nil
func createErrorResponseJson(errorCode int, errorMessage string) (jsonString string) {
        errorResponse := types.ErrorResponse { ErrorMessage: types.ErrorMessage { Code: errorCode, Message: errorMessage,},}
       errorResponseJson, _ := json.MarshalIndent(&errorResponse, "", "\t")
return string(errorResponseJson)
        successResponse := SuccessResponse {
                "requested item inserted",
                newDevice,
        successResponseJson, _ := json.MarshalIndent(&successResponse, "", "\t")
        return events.APIGatewayProxyResponse {
                Body: string(successResponseJson),
                StatusCode: 201,
        }, nil
```