```
eloy-aws-api-service/src/handlers/getDeviceByld/getDeviceByld.go (97.3%)
                                                                                                                      covered
package main
     "github.com/aws/aws-sdk-go/aws/session"
"github.com/aws/aws-sdk-go/service/dynamodb"
      'github.com/aws/aws-sdk-go/service/dynamodb/dynamodbattribute'
'github.com/aws/aws-sdk-go/service/dynamodb/dynamodbiface'
var ERROR_MISSING_ID_FIELD = 1
var ERROR_INTERNAL_SERVERS_DATABAE = 2
var ERROR_NO_ITEM_FOUNDED = 3
type SuccessResponse struct {
    Device types.Device `
 // get a device from DynamoDB database with provided id
func (ig *dynamoDBAPI) getFromDatabase(id string) ( *dynamodb.GetItemOutput, error) {
     // Get table name from OS's environment
     tableName := aws.String(os.Getenv("DEVICES_TABLE_NAME"))
     var input = &dynamodb.GetItemInput{
    TableName: tableName,
           Key: map[string]*dynamodb.AttributeValue{
                      S: aws.String(id),
           },
      result, err := ig.DynamoDB.GetItem(input)
      return result, err
// main AWS lambda function starting point.
// It gets an id from client, parse it and tries to get corresponding device fromdynamodb.
func GetDeviceById(request events.APIGatewayProxyRequest) (events.APIGatewayProxyResponse, error) {
     region := os.Getenv("AWS_REGION")
var getter = new(dynamoDBAPI)
     sess, err := session.NewSession(&aws.Config{Region: &region},)
     svc := dynamodb.New(sess)
getter.DynamoDB = dynamodbiface.DynamoDBAPI(svc)
     // get requested id from APIGatewayProxyRequest
id := request.PathParameters["id"]
     3
     result, err := getter.getFromDatabase(id)
     validationResult := validateDatabaseResult(result, err)
     return validationResult , nil
     // If an internal error occured in the database, return HTTP error 500
// todo: log here
if err != nil {
           return events.APIGatewayProxyResponse{
Body: createErrorResponseJson(ERROR_INTERNAL_SERVERS_DATABAE),
StatusCode: 500,
```

```
StatusCode: 404
return events.APIGatewayProxyResponse{
    Body: createSuccessResponseJson(result),
   StatusCode: 200,
```

```
func createErrorResponseJson(errorState int) (jsonString string) {
    if errorState == ERROR_MISSING_ID_FIELD {
        errorResponse := types.ErrorResponse { ErrorMessage: types.ErrorMessage { Code: 404,Message: "No ID Field Provided",},}
        errorResponse.son, := json.MarshalIndent(SerrorResponse, "", "\t")
        return string(errorResponseJson)
    } else if errorState == ERROR_INTERNAL_SERVERS_DATABAE {
        errorResponse := types.ErrorResponse { ErrorMessage: types.ErrorMessage { Code: 500,Message: "Internal Server's Error occured",},}
        errorResponses: = types.ErrorResponse { ErrorMessage: types.ErrorMessage { Code: 404,Message: "Desired device with provided id was not founded",},}
    } else {
        errorResponses: = types.ErrorResponse { ErrorMessage: types.ErrorMessage { Code: 404,Message: "Desired device with provided id was not founded",},}
        return string(errorResponse)son, := json.MarshalIndent(SerrorResponse, "", "\t")
        return string(errorResponse)son(result *dynamodb.GetItemOutput) (jsonString string) {
        // create json file of database's returned Item
        item := types.Device(}
        dynamodbattribute.UnmarshalMap(result.Item, &item)
        successResponse: = successResponse {
        item,
        }
        successResponse.:= json.MarshalIndent(&successResponse, "", "\t")
        return string(successResponseJson)
    }
}

func main() {
        lumbds.Start(GetDeviceById)
}
```