

Hello World

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1. 仕様

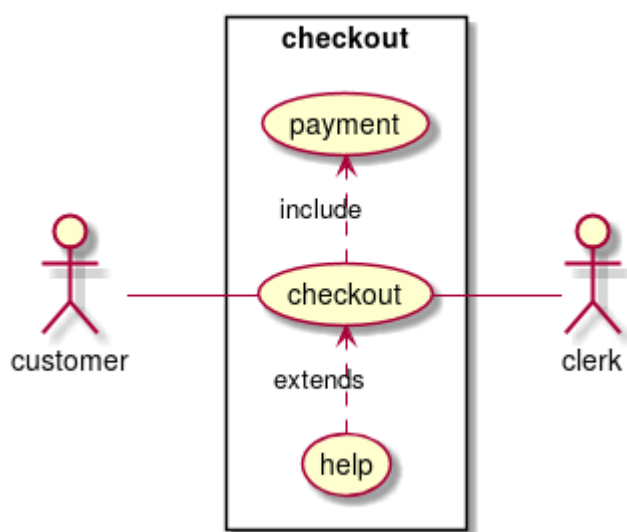
2. 設計

2.1. TODOリスト

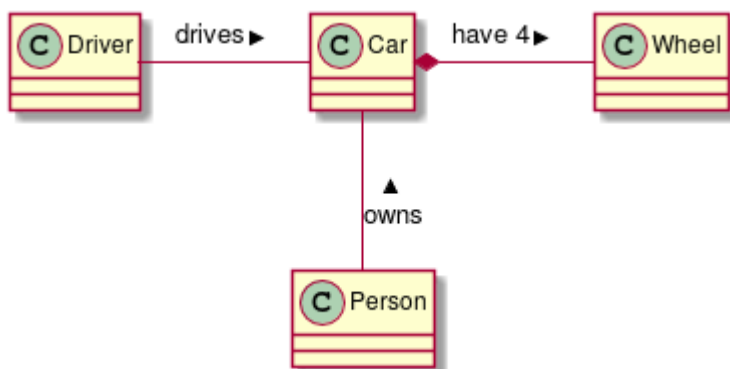
☐ TODO

☒ ~~TODO-DONE~~

2.2. ユースケース図



2.3. クラス図



2.4. シーケンス図



3. 実装

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Net.Http;
using System.Net.Http.Headers;
using Newtonsoft.Json;

using Amazon.Lambda.Core;
using Amazon.Lambda.APIGatewayEvents;

// Assembly attribute to enable the Lambda function's JSON input to be converted into
// a .NET class.
[assembly: LambdaSerializer(typeof(Amazon.Lambda.Serialization.Json.JsonSerializer))]

namespace HelloWorld
{
    public class Function
    {
        private static readonly HttpClient client = new HttpClient();

        private static async Task<string> GetCallingIP()
        {
            client.DefaultRequestHeaders.Accept.Clear();
            client.DefaultRequestHeaders.Add("User-Agent", "AWS Lambda .Net Client");

            var stringTask =
client.GetStringAsync("http://checkip.amazonaws.com/").ConfigureAwait(continueOnCaptur
edContext:false);

```

```

        var msg = await stringTask;
        return msg.Replace("\n","");
    }

    public APIGatewayProxyResponse FunctionHandler(APIGatewayProxyRequest
apigProxyEvent, ILambdaContext context)
    {

        string location = GetCallingIP().Result;
        Dictionary<string, string> body = new Dictionary<string, string>
        {
            { "message", "hello world" },
            { "location", location },
        };

        return new APIGatewayProxyResponse
        {
            Body = JsonConvert.SerializeObject(body),
            StatusCode = 200,
            Headers = new Dictionary<string, string> { { "Content-Type",
"application/json" } }
        };
    }
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.Net.Http;
using System.Net.Http.Headers;

using Newtonsoft.Json;
using Xunit;
using Amazon.Lambda.Core;
using Amazon.Lambda.TestUtilities;
using Amazon.Lambda.APIGatewayEvents;

namespace HelloWorld.Tests
{
    public class FunctionTest
    {
        private static readonly HttpClient client = new HttpClient();

        private static async Task<string> GetCallingIP()
        {
            client.DefaultRequestHeaders.Accept.Clear();
            client.DefaultRequestHeaders.Add("User-Agent", "AWS Lambda .Net Client");

```

```

        var stringTask =
client.GetStringAsync("http://checkip.amazonaws.com/").ConfigureAwait(continueOnCaptur
edContext:false);

        var msg = await stringTask;
        return msg.Replace("\n","");
    }

[Fact]
public void TestHelloWorldFunctionHandler()
{
    TestLambdaContext context;
    APIGatewayProxyRequest request;
    APIGatewayProxyResponse response;

    request = new APIGatewayProxyRequest();
    context = new TestLambdaContext();
    string location = GetCallingIP().Result;
    Dictionary<string, string> body = new Dictionary<string, string>
    {
        { "message", "hello world" },
        { "location", location },
    };

    var ExpectedResponse = new APIGatewayProxyResponse
    {
        Body = JsonConvert.SerializeObject(body),
        StatusCode = 200,
        Headers = new Dictionary<string, string> { { "Content-Type",
"application/json" } }
    };

    var function = new Function();
    response = function.FunctionHandler(request, context);

    Console.WriteLine("Lambda Response: \n" + response.Body);
    Console.WriteLine("Expected Response: \n" + ExpectedResponse.Body);

    Assert.Equal(ExpectedResponse.Body, response.Body);
    Assert.Equal(ExpectedResponse.Headers, response.Headers);
    Assert.Equal(ExpectedResponse.StatusCode, response.StatusCode);
}
}
}

```

4. 参照

- PlantUML[\[http://plantuml.com\]](http://plantuml.com)