# Questão 1:

## Solução em PHP:

<?php

class ReviewUrl

{

public $company\_url = strtolower('test.trustedcompany.com');

public $page = 0;

public $public\_key = 'd43d6dbe8a04eb719fe56b409543f174';

public $private\_key = 'a68d2d878761ec390a0d91a70cc7a056';

public function GerarUrl($company\_url, $page, $public\_key, $private\_key )

{

$key = hash\_hmac('md5', $public\_key . $company\_url, $private\_key);

$url = 'https://trustedcompany.com/api/v1/company/reviews/' . $company\_url . '?' . http\_build\_query(array('key' => $public\_key . '-' . $key,

'page' => $page));

return $url;

}

}

?>

## Solução em C#

using System.Text;

using System.Security.Cryptography;

namespace Test

{

public class GetReviews

{

string company\_url;

int page;

string public\_key;

string private\_key;

public GetReviews()

{

company\_url = "test.trustedcompany.com";

page = 0;

public\_key = "d43d6dbe8a04eb719fe56b409543f174";

private\_key = "a68d2d878761ec390a0d91a70cc7a056";

}

public GetReviews(string company\_url, int page, string public\_key, string private\_key)

{

this.company\_url = company\_url;

this.page = page;

this.public\_key = public\_key;

this.private\_key = private\_key;

}

private string GerarHash()

{

var data = Encoding.UTF8.GetBytes(public\_key + company\_url);

var key = Encoding.UTF8.GetBytes(private\_key);

var hmac = new HMACMD5(key);

var hashbytes = hmac.ComputeHash(data);

return System.BitConverter.ToString(hashbytes).Replace("-", "").ToLower();

}

public string GerarUrl()

{

string hash = GerarHash();

string url = "https://trustedcompany.com/api/v1/company/reviews/" + company\_url + "?key=" + public\_key + "-" + hash + "&page=" + page;

return url;

}

}

}

# Questão 2

## Solução em PHP:

<?php

class UniqueLink

{

public $company\_id = 564869;

public $company\_secret = 'a907f5ed930d7d6a6778e60f7fb7acc78f5dc9e2';

public $customer\_name = 'Fabio';

public $customer\_email = 'fcs1983@gmail.com';

public $order\_id = 'xxxx';

public function GerarUrl ($company\_id, $company\_secret, $customer\_email, $order\_id )

{

$hash = sha1 ($company\_id . $company\_secret . $customer\_email . $order\_id);

$url = 'http://trustedcompany.com/review-invite/' . $company\_id . '/ul/' . $hash . '?a=' . base64\_encode($customer\_email) . '&b=' . $customer\_name . '&c=' . $order\_id;

return urlencode ($url);

}

}

?>

## Solução em C#:

using System;

using System.Text;

using System.Security.Cryptography;

using System.Web;

namespace Test

{

public class UniqueLink

{

int company\_id;

string company\_secret;

string customer\_email;

string customer\_name;

string order\_id;

public UniqueLink()

{

company\_id = 564869;

company\_secret = "a907f5ed930d7d6a6778e60f7fb7acc78f5dc9e2";

customer\_email = "fcs1983@gmail.com";

customer\_name = "Fabio";

order\_id = "xxxx";

}

public UniqueLink(int company\_id, string company\_secret, string customer\_email, string customer\_name, string order\_id)

{

this.company\_id = company\_id;

this.company\_secret = company\_secret;

this.customer\_email = customer\_email;

this.customer\_name = customer\_name;

this.order\_id = order\_id;

}

private string GerarHash()

{

string encode = company\_id + company\_secret + customer\_email + order\_id;

ASCIIEncoding AE = new ASCIIEncoding();

byte[] HashValue, MessageBytes = AE.GetBytes(encode);

SHA1Managed SHhash = new SHA1Managed();

string strHex = "";

HashValue = SHhash.ComputeHash(MessageBytes);

strHex = BitConverter.ToString(HashValue);

return strHex;

}

public string GerarUrl()

{

string hash = GerarHash();

ASCIIEncoding AE = new ASCIIEncoding();

byte[] email\_bytes = AE.GetBytes(customer\_email);

string email\_base64 = Convert.ToBase64String(email\_bytes);

string url = "http://trustedcompany.com/review-invite/" + company\_id + "/ul/" + hash + "?a=" + email\_base64 + "&b=" + customer\_name + "&c=" + order\_id;

return HttpUtility.UrlPathEncode(url);

}

}

}

# Questão 3

Select

A.CustomerName 'Customer Name',

A.PostalCode 'Postal Code',

C.EmployeeName 'Driver Name'

From Orders B

Inner Join

Customers A On B.CustomerID = A.CustomerID

Inner Join

Employee C On B.EmployeeID = C.EmployeeID;

where c.role = 'Driver';