



# CSCI 5409: ASSIGNMENT 4

Workflows and Workflow Management

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## 1. WEB URL

### a. REST Web service

Mortgage:

URL: <https://a4-mortgage.herokuapp.com/mortgage/>

Insurance:

URL: <https://a4-insurance.herokuapp.com/insurance/>

Employee:

URL: <https://a4-employer.herokuapp.com/employees/>

### b. Client

Mortgage

URL: <https://web.cs.dal.ca/~jadeja/csci5409/a4/createMortgage.php>

Insurance:

URL: <https://web.cs.dal.ca/~jadeja/csci5409/a4/createInsurance.php>

Employee:

URL: <https://web.cs.dal.ca/~jadeja/csci5409/a4/createEmployee.php>

### c. Web service Log

Download Heroku CLI tool to your machine via following link

<https://devcenter.heroku.com/articles/heroku-cli>

After complete installation, open terminal or CMD in your machine in the project directory (Web Service).

**Login ID:** [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

**Password:** Nirav@261

Now type following command “**heroku auth:login**”

```
PS C:\Users\nirav\Desktop\CSCI5409 Cloud Computing\Assignments\A4\REST Framework\mortgage> heroku auth:login
heroku: Enter your login credentials
Email [nirav.jadeja@dal.ca]: nirav.jadeja@dal.ca
Password: *****
Logged in as nirav.jadeja@dal.ca
```

Once you logged in, type following command “**heroku logs -a a3-csci5409**” for logs

```
C:\Users\nirav\Desktop\CSCI5409 Cloud Computing\Assignments\A4\REST Framework\mortgage> heroku logs -a a4-mortgage
```

### Response (Logs):

```
2018-06-26T01:32:05.316011+00:00 app[web.1]: 10.47.231.89 - - [26/Jun/2018:01:32:05 +0000] "GET /static/rest_framework/css/default.css HTTP/1.1" 304 - "https://a3-csci5409.herokuapp.com/Student/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/67.0.3396.99 Safari/537.36"
2018-06-26T01:32:05.320898+00:00 app[web.1]: 10.9.223.58 - - [26/Jun/2018:01:32:05 +0000] "GET /static/rest_framework/js/ajax-form.js HTTP/1.1" 304 - "https://a3-csci5409.herokuapp.com/Student/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/67.0.3396.99 Safari/537.36"
2018-06-26T01:32:05.320972+00:00 app[web.1]: 10.65.204.162 - - [26/Jun/2018:01:32:05 +0000] "GET /static/rest_framework/css/bootstrap-tweaks.css HTTP/1.1" 304 - "https://a3-csci5409.herokuapp.com/Student/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/67.0.3396.99 Safari/537.36"
2018-06-26T01:32:05.322297+00:00 app[web.1]: 10.51.186.226 - - [26/Jun/2018:01:32:05 +0000] "GET /static/rest_framework/js/jquery-3.3.1.min.js HTTP/1.1" 304 - "https://a3-csci5409.herokuapp.com/Student/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/67.0.3396.99 Safari/537.36"
```

The reason for providing this procedure for logs is that There wasn't other option to write logs, as Heroku wasn't writing any logs on bluenose server. Here, Logs shows that GET request with different time stamps.

## 2. Environment/Resources used

Hardware/Software Used: Acer Nitro5 with Windows 10, Atom (Editor), Chrome (Testing), FileZilla Desktop Client (For making connection with server), Bluenose Dalhousie Server (For Client Hosting), Heroku Cloud (For REST Web Service), Python-Django (For REST Web Service), PHP, HTML (For Client app), Heroku CLI (For web service testing and Logs), DB (SQLite3 – Django Inbuilt Engine).

Here, I have created 3 separate DB for each web service. For Mortgage web service, DB name is mortgage and schema are as follows.

Table Name: mortgage
Primary Key: mortgage_ID
mortgage_Name mortgage_Address mortgage_City mortgage_Province mortgage_Occupation mortgage_PhoneNumber mortgage_CompanyName mortgage_InsuranceName

Mortgage Web Service Table

For Insurance web service, DB name is insurance and schema are as follows.

Table Name: insurance
Primary Key: insurance ID
insurance_Name insurance_Value

Insurance Web Service Schema

For Employee web service, DB name is employee and schema are as follows.

Table Name: employee
Primary Key: employee_ID
employee_Name employee_Salary employee_Occupation

Employee Web Service schema

Further Mortgage ID will be of 3 digits and further validation have applied on client side. For insurance side, insurance ID will be of 5 digits and for employee side, employee id will be of 3 digits. The sample inputs are also provided along with input text.

For Client-side application, I have built in PHP and HTML. For implementing REST requests, I have used CURL library with JSON encoded/decoded data. In addition, communication between client app and web service is taking place over HTTPS.

#### a. REST Web Service (Heroku Cloud)

##### Mortgage

← → ↻ Secure | https://a4-mortgage.herokuapp.com/mortgage/

## Mortgage List

GET /mortgage/  
HTTP 200 OK  
Allow: GET, POST, HEAD, OPTIONS  
Content-Type: application/json  
Vary: Accept

[ ]

- [HTML form](#)
- [Raw data](#)

Mortgage id

Mortgage name

Mortgage address

Mortgage city

Mortgage province

Mortgage occupation

Mortgage phoneNumber

Mortgage companyName

Mortgage insuranceName

POST

##### Insurance

← → ↻ Secure | https://a4-insurance.herokuapp.com/insurance/

## Insurance List

GET /insurance/  
HTTP 200 OK  
Allow: GET, POST, HEAD, OPTIONS  
Content-Type: application/json  
Vary: Accept

[ ]

- [HTML form](#)
- [Raw data](#)

Insurance id

Insurance name

Insurance value

POST

## Employee

← → ↻ Secure | https://a4-employer.herokuapp.com/employees/

### Employees List

GET /employees/  
HTTP 200 OK  
Allow: GET, POST, HEAD, OPTIONS  
Content-Type: application/json  
Vary: Accept

```
[
  {
    "employee_id": 100,
    "employee_name": "Nirav Jadeja",
    "employee_occupation": "CEO",
    "employee_salary": "1000000000000000"
  }
]
```

- [HTML form](#)
- [Raw data](#)

Employee id

Employee name

Employee occupation

Employee salary

POST

## b. Client app (on Bluenose DAL Server)

### Mortgage

← → ↻ Secure | https://web.cs.dal.ca/~jadeja/csci5409/a4/createMortgage.php

### CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**Enter the details**

Application ID:  Enter new application ID (Max 3 digits are allowed)

Full Name:  Enter your full name E.g. Nirav Jadeja (Only Letters)

Address:  Enter your address E.g. 123 abcd sdf

City:  Enter your city name

Province:  Enter your province name

Occupation:  Enter your occupation E.g. Data Scientist

Phone number:  Enter your contact details E.g. (777)888-9999

Employee Name:  Enter your employee name E.g. Google Inc

Insurance Provide Name:  Enter your insurance compa E.g. abcd insurance

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [niravjadeja@dal.ca](mailto:niravjadeja@dal.ca)

Create New Application

## CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**View Status**

**Application ID:**  (Max 3 digits are allowed)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

Authenticate user

### Insurance

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

**Enter the details**

**Insurance ID**  (5 digit numbers are allowed i.e 12345)

**Insurance Name**  **E.g. Nirav Jadeja (only letters)**

**Insurance Value**  **E.g. 12000 (only digits)**

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

Create a new insurance policy

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

**Read Insurance's Details**

**Insurance ID**  (5 digit numbers are allowed i.e 12345)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

Authenticate insurance ID



## Employee

Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/createEmployee.php>

### CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Enter the details

**Employee ID**  Enter your employee ID (Max 3 digits are allowed)

**Employee Name**  Enter your name E.g. Nirav Jadeja (only letters)

**Employee Occupation**  Enter your occupation E.g. Data Scientist

**Employee Salary**  Enter your salary E.g. 12000 (only digits)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

#### Create a new Employee ID

Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/searchEmployee.php>

### CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Read Employee Details

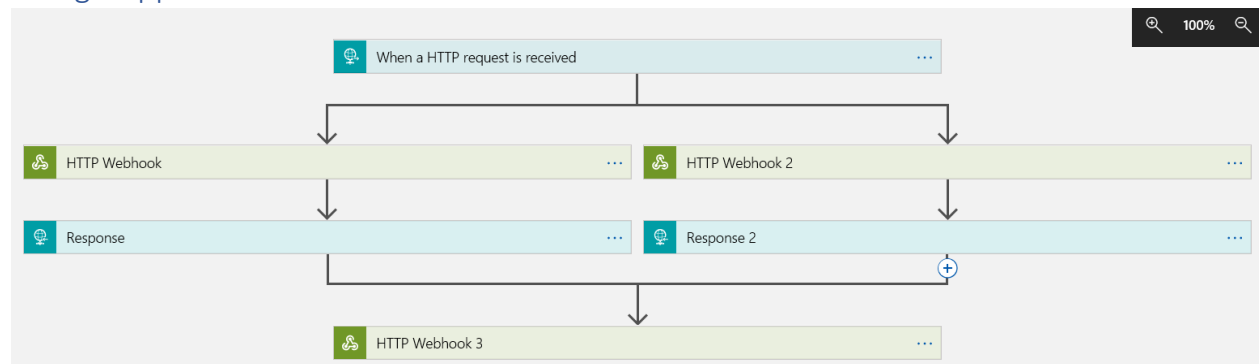
**Employee ID**  Enter your employee ID (Max 3 digits are allowed)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

#### Authenticate an employee ID

## c. Logic app Workflow



### 3. Code Reference

#### Reference:

```
.button {
    background-color: #4CAF50;
    border: none;
    color: white;
    padding: 15px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
}
```

#### My Code:

```
background-color: #4CAF50; /* Green */
border: none;
color: white;
padding: 15px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;">
```

#### Reference:

```
$json = json_decode($json_data);
echo $json->profile->displayName;
```

#### My Code:

```
$obj = json_decode($result);
```

```
echo "<td>".$obj->student_id."</td>";
```

#### Reference:

```
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS,$data_json);
```

#### My Code:

```
// 1 for post request
curl_setopt($ch, CURLOPT_POST, 1);

// encoded JSON data attached with curl post fields
curl_setopt($ch, CURLOPT_POSTFIELDS, $jsonDataEncoded);

//declaring application type as JSON.
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));

//Execute the request
$result = curl_exec($ch);
```

### Reference:

```
$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_CUSTOMREQUEST, "DELETE");
curl_setopt($ch, CURLOPT_POSTFIELDS,$data_json);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);
curl_close($ch);
```

### My Code:

```
$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_CUSTOMREQUEST, 'DELETE');
curl_setopt($ch, CURLOPT_POSTFIELDS);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);
curl_close($ch);
```

### Reference:

```
$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS,$data_json);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);
curl_close($ch);
```

### My Code:

```
// curl initialization
$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $url);

// content type JSON
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));

// mode of request
curl_setopt($ch, CURLOPT_CUSTOMREQUEST, 'PATCH');

// attaching data with headers
curl_setopt($ch, CURLOPT_POSTFIELDS,$data_json);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

// excute command
$response = curl_exec($ch);
curl_close($ch);
```

## 4. Testing

### a. Wrong input in Insurance, Mortgage, Employee Details

#### Mortgage:

Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/createMortgage.php>

---

### CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**Enter the details**

Application ID:  (Max 3 digits are allowed)

Full Name:  Please match the requested format. **Jadeja (Only Letters)**

Address:  E.g. 123 abcd sdf

City:

Province:

Occupation:  E.g. Data Scientist

Phone number:  E.g. (777)888-9999

Employee Name:  E.g. Google Inc

Insurance Provide Name:  E.g. abcd insurance

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

<https://web.cs.dal.ca/~jadeja/csci5409/a4/searchMortgage.php>

### CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

#### View Status

Application ID:  (Max 3 digits are allowed)

Please fill out this field.


Developed by:  
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## CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

### View Status

Application ID:  (Max 3 digits are allowed)

 Please match the requested format.

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Insurance:

## CSCI 5409: Assignment 4


[Take a New Insurance](#)  
[Send your Insurance's details](#)

### Enter the details

Insurance ID  (5 digit numbers are allowed i.e 12345)

Insurance Name  E.g. Nirav Jadeja (only letters)

Insurance Value  E.g. 12000 (only digits)

 Please match the requested format.

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

### Read Insurance's Details

Insurance ID  (5 digit numbers are allowed i.e 12345)

 Please fill out this field.

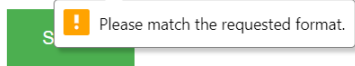
Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

Read Insurance's Details

Insurance ID  (5 digit numbers are allowed i.e 12345)



Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Employee:

## CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Enter the details

Employee ID  (Max 3 digits are allowed)

Employee Name  E.g. Nirav Jadeja (only letters)

Employee E.g. Data Scientist

Employee Salary  E.g. 12000 (only digits)

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Read Employee Details

Employee ID  (Max 3 digits are allowed)



Developed by:  
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## CSCI 5409: Assignment 4

[Create New Employee](#)

[Send your Employee's details](#)

Read Employee Details

Employee ID  (Max 3 digits are allowed)

S



Please match the requested format.

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### b. Wrong User Authentication

## CSCI 5409: Assignment 4

[Take a New Insurance](#)

[Send your Insurance's details](#)

Read Insurance's Details

Insurance ID  (5 digit numbers are allowed i.e 12345)

Submit

Record not found, please try again.

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Create New Employee](#)

[Send your Employee's details](#)

Read Employee Details

Employee ID  (Max 3 digits are allowed)

Submit

Record not found, please try again.

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Create a New Application](#)

[View Your Application Status](#)

### View Status

Application ID:  (Max 3 digits are allowed)

Submit

**Record not found, please try again.**

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)



## 5. Normal Operation

### a. Create Operation

#### Mortgage:

Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/createMortgage.php>

### CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**Enter the details**

**Application ID:**  (Max 3 digits are allowed)

**Full Name:**  **E.g. Nirav Jadeja (Only Letters)**

**Address:**  **E.g. 123 abcd sdf**

**City:**

**Province:**

**Occupation:**  **E.g. Data Scientist**

**Phone number:**  **E.g. (777)888-9999**

**Employee Name:**  **E.g. Google Inc**

**Insurance Provide Name:**  **E.g. abcd insurance**

Submit

Developed by:  
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## CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

### Enter the details

Application ID:  (Max 3 digits are allowed)

Full Name:  E.g. Nirav Jadeja (Only Letters)

Address:  E.g. 123 abcd sdf

City:

Province:

Occupation:  E.g. Data Scientist

Phone number:  E.g. (777)888-9999

Employee Name:  E.g. Google Inc

Insurance Provide Name:  E.g. abcd insurance

Submit

Information Created!!

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Insurance:

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

### Enter the details

Insurance ID  (5 digit numbers are allowed i.e 12345)

Insurance Name  E.g. Nirav Jadeja (only letters)

Insurance Value  E.g. 12000 (only digits)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

Enter the details

Insurance ID  (5 digit numbers are allowed i.e 12345)

Insurance Name  E.g. Nirav Jadeja (only letters)

Insurance Value  E.g. 12000 (only digits)

Submit

Information Created!!

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Employee:

## CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Enter the details

Employee ID  (Max 3 digits are allowed)

Employee Name  E.g. Nirav Jadeja (only letters)

Employee Occupation  E.g. Data Scientist

Employee Salary  E.g. 12000 (only digits)

Submit

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Create New Employee](#)  
[Send your Employee's details](#)

Enter the details

Employee ID  (Max 3 digits are allowed)

Employee Name  E.g. Nirav Jadeja (only letters)

Employee Occupation  E.g. Data Scientist

Employee Salary  E.g. 12000 (only digits)

Submit

Information Created!!

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## b. Authenticate Operation

### Mortgage:

 Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/searchMortgage.php>

---


## CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**View Status**

Application ID:  (Max 3 digits are allowed)

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

 Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/searchMortgage.php>

---

## CSCI 5409: Assignment 4

[Create a New Application](#)  
[View Your Application Status](#)

**View Status**

Application ID:  (Max 3 digits are allowed)

Application ID	633
Applicant Name	nirav jadeja
Address	address
City	halifax
Province	NS
Occupation	student
Contact Number	(777)888-9999
Employee Details	self employee
Insurance Details	abcd insurance
Application Status	Pending

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Insurance:

 Secure | <https://web.cs.dal.ca/~jadeja/csci5409/a4/searchInsurance.php>

---

## CSCI 5409: Assignment 4

[Take a New Insurance](#)  
[Send your Insurance's details](#)

**Read Insurance's Details**

Insurance ID  (5 digit numbers are allowed i.e 12345)

Developed by:  
Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Take a New Insurance](#)

[Send your Insurance's details](#)

**Read Insurance's Details**

Insurance ID  (5 digit numbers are allowed i.e 12345)

Submit

Sr. No.	Insurance ID	Insurance Name	Insurance Value	I agree to send details	Send Details
1	14526	nirav jadeja	1000	<input type="checkbox"/> I agree	<a href="#">Send Details</a>

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

### Employee:

## CSCI 5409: Assignment 4

[Create New Employee](#)

[Send your Employee's details](#)

**Read Employee Details**

Employee ID  (Max 3 digits are allowed)

Submit

Developed by:

Mr. Niravsinh Jadeja | B00789139 | [nirav.jadeja@dal.ca](mailto:nirav.jadeja@dal.ca)

## CSCI 5409: Assignment 4

[Create New Employee](#)

[Send your Employee's details](#)

**Read Employee Details**

Employee ID  (Max 3 digits are allowed)

Submit

Sr. No.	Employee ID	Employee Name	Employee Occupation	Employee Salary	I agree to send details	Send Details
1	455	nirav jadeja	student	12000	<input type="checkbox"/> I agree	<a href="#">Send Details</a>

Developed by:

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