# Sexta Edición Programathon

Conexión al backend
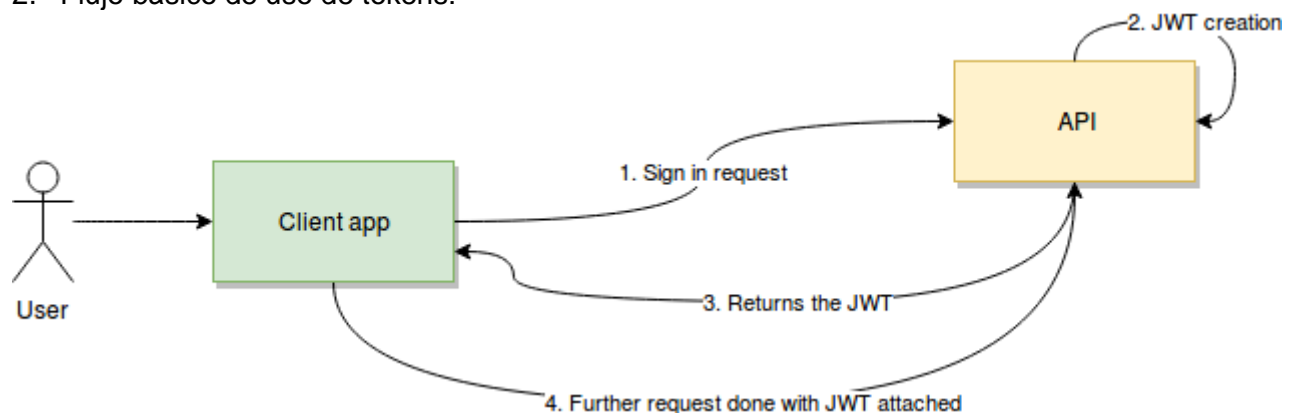
**Octubre, 2019**

## a. Realizar la Conexión

## Ruta entregada

| IP | 192.168.128.21 |
|---|---|
| Instancia | INS11 |
| Puerto | 8111 |
| Equipo | **Runtime Terror** |
| URL Swagger | http://192.168.128.21:8111/ApiServer/swagger/index.html |
| URL API | http://192.168.128.21:8111/ApiServer/api/ |
| Base de Datos | Dehvi1INS11 |

1. Se deben utilizar JWT Tokens.

2. Flujo básico de uso de tokens:



3. Devhi Api Log In Request:

POST /api/login
curl -X POST "https://**ruta_entregada:puerto**/api/login" -H "accept: application/json" -d "{ \"username\": \"12345678\", \"password\": \"Te$t1234\"}"

Request:

{

"Username": "12345678"

"Password": "Te$t1234"

}

Username=>DNI

Response :

```
{
 "LoginData": {
  "access_token":
```
"eyJhbGciOiJSUzI1NiIsImtpZCI6IjlCQ0U2OTc1MDUzMkU3QjNEOUU3MkU4ODcwOTZENDk2RUEyNzdBOEIiLCJ0eXAiOiJKV1QiLCJ4NXQiOiJtODVwZFFVeTU3U1FFo1eTZJY0piVWx1b25lb3MifQ.eyJuYmYiOjE1NzA2MzYzMzYysImV4cCI6MTU3MDYzOTkzNiwiaXNzIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTciLCJhdWQiOlsiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTcvcmVzb3VyY2VzIiwiRGVvdmlBBUEkiXSwiY2xpZW50X2lkIjoiZGVvdmlfYXBpiwic3ViIjoiMSIsImF1dGhfdGltZSI6MTU3MDYzNjMzNSwiaWRwIjoibG9jYWwiLCJnaXZlbl9uYW1lIjoiVGVzdCBVc2VyIiwiZW1haWwiOiJsb2dVc2VyIiwicm9sZSI6IjUiLCJzY29wZSI6WyJlbWFpbCIsIm9wZW5pZCIsInJvbGUiLCJhcGkucmVzb3VyY2UiLCJvZmZsaW5lX2FjY2VzcyJdLCJhbXIiOlsicHdkIl19.RBJ3g2nkmdoGIBoJNdqcpcKw-ZHR1CPC2bcROv_1TuExJkvpWHkkjLOxGMC8lEL-WhkYiiqd_02UfsMsCdkLffkd7wNZrf7dUgvW7ucMDJ80-4dH60qrWBjr6BVF0K6ZPheFSvoQ1jkkCnjdyk-eFny7m90yvbO_adFxjKPeWoIHqTKdqJJDwa-0BQib5exvVMDuWk89r2WC5UIyTaSKLE5mAjFAvl-XxWzVG31wkoEGPxIuJPfwyjQCKPmyhSMugWGhGD0T-H9nrfdGqPPRdx-yuV5ceYnzvCGEHY_ZrOJ86vHjY2mTVaFdE5IqWhVrprxbTBfa7QcQJJ1_QrDzww",
```
    "expires_in": 3600,
    "token_type": "Bearer",
    "refresh_token":
```
"76fd116dcb41946640ad35fb3269d20bb7cf9438696627551b252cfc3af51aaa",
```
    "scope": "api.resource email offline_access openid role"
  },
  "UserInfo": {
   "uid": 1,
   "givenName": "Test User",
   "email": "logUser",
   "role": "Profesor"
  }
}
```

4. Los request futuros luego del LogIn requieren el header de "Authorization" con el siguiente formato:
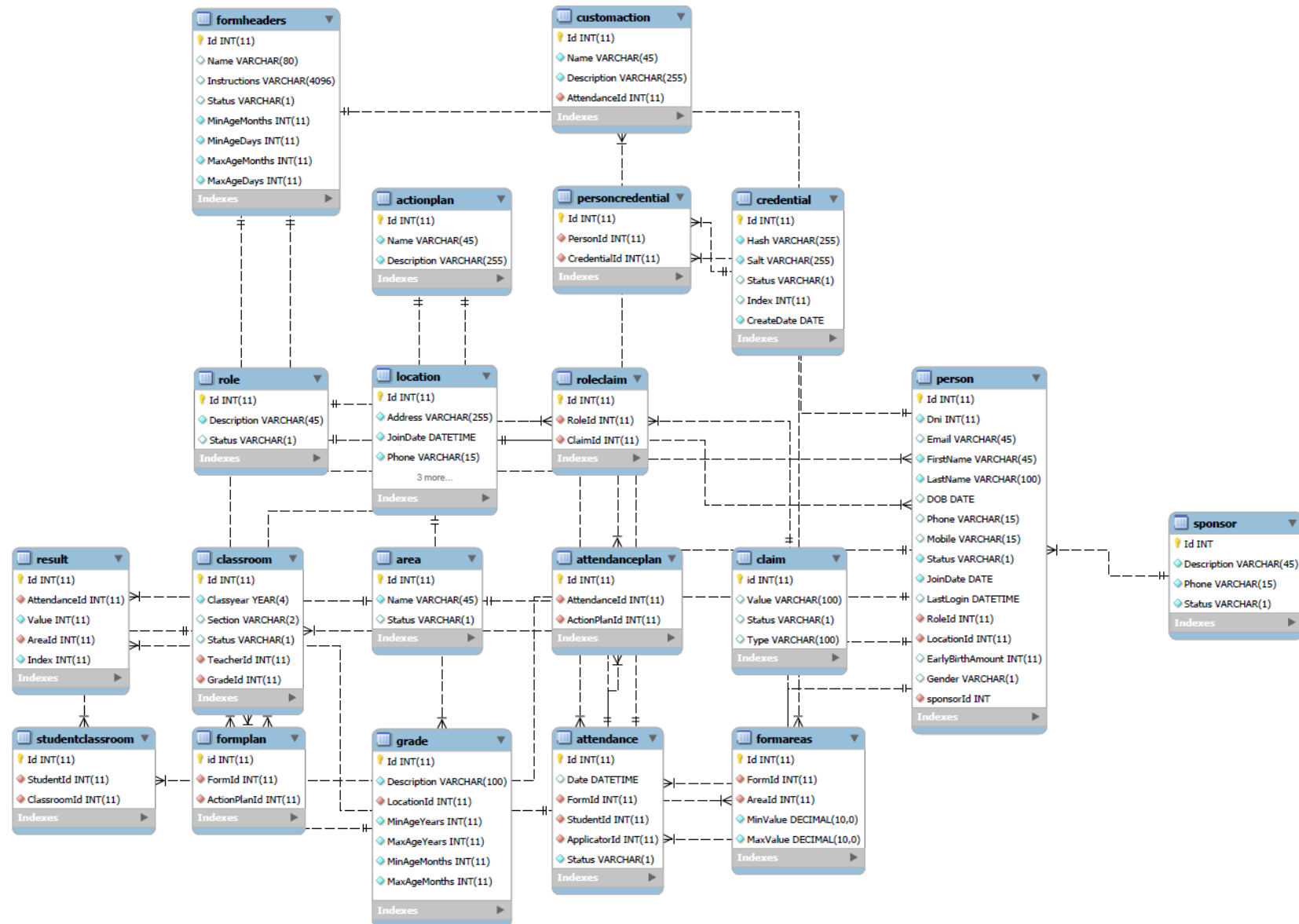
"Authorization: Bearer eyJhbGciOiJSUzI1NiIsImtpZCI6IjlCQ0U2OTc1MDUzMkU3QjNEOUU3MkU4ODcwOTZENDk2RUEyNzdBOEIiLCJ0eXAiOiJKV1QiLCJ4NXQiOiJtODVwZFFVeTU3Uo1eTZJY0piVWx1b25lb3MifQ.eyJuYmYiOjE1NzA2MzYzMzYysImV4cCI6MTU3MDYzOTkzNiwiaXNzIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTciLCJhdWQiOlsiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTcvcmVzb3Vy

Y2VzIiwiRGVodmlBUEkiXSwiY2xpZW50X2lkIjoiZGVodmlfYXBpIiwic3ViIjoiMSIsImF1dGhfdGltZSI6MTU3MDYzNjMzNSwiaWRwIjoibG9jYWwiLCJnaXZlbl9uYW1lIjoiVGVzdCBVc2VyIiwiZW1haWwiOiJsb2dVc2VyIiwicm9sZSI6IjUiLCJ6b25laW5mbyI6IjEiLCJzY29wZSI6WyJlbWFpbCIsIm9wZW5pZCIsInJvbGUiLCJhcGcucmcb3VyY2UiLCJvZmZsaW5lX2FjY2VzcyJdLCJhbXIiOlsicHdkIll19.RBJ3g2nkmdoGlBoJNdqcpcKw-ZHR1CPC2bcROv_1TuExJkvpWHkkjLOxGMC8lEL-WhkYiiqd_02UfsMsCdkLffkd7wNZrf7dUgvW7ucMDJ80-4dH60qrWBjr6BVF0K6ZPheFSvoQ1jkkCnjdyk-eFny7m90yvbO_adFxjKPeWoIHqTKdqJJDwa-0BQib5exvVMDuWk89r2WC5UIyTaSKLE5mAjFAvl-XxWzVG31wkoEGPxIuJPfwyjQCKPmyhSMugWGhGD0T-H9nrfdGqPPRdx-yuV5ceYnzvCGEHY_ZrOJ86vHjY2mTVaFdE5IqWhVrprxbTBfa7QcQJJ1_QrDzww"

5. Ejemplo request con Curl:

curl -X GET "https://**ruta_entregada:puerto**/ApiServer/api/ClassRoom/GetMyClassRoom" -H "accept: application/json" -H "Authorization: Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IjlCQ0U2OTc1MDUzMkU3QjNEOUU5MkU4ODcwOTZENDk2RUEyNzdBBOEIiLCJ0eXAiOiJKV1QiLCJ4NXQiOiJtODVwZFFVzTU3UFo1eTZJY0piVWx1b25lb3MifQ.eyJuYmYiOjE1NzA2MzYzMzYsImV4cCI6MTU3MDYzOTkzNiwiaXNzIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTciLCJhdWQiOlsiaHR0cHM6Ly9sb2NhbGhvc3Q6NDQzMTcvcmVzb3VyY2VzIiwiRGVodmlBUEkiXSwiY2xpZW50X2lkIjoiZGVodmlfYXBpIiwic3ViIjoiMSIsImF1dGhfdGltZSI6MTU3MDYzNjMzNSwiaWRwIjoibG9jYWwiLCJnaXZlbl9uYW1lIjoiVGVzdCBVc2VyIiwiZW1haWwiOiJsb2dVc2VyIiwicm9sZSI6IjUiLCJ6b25laW5mbyI6IjEiLCJzY29wZSI6WyJlbWFpbCIsIm9wZW5pZCIsInJvbGUiLCJhcGcucmVzb3VyY2UiLCJvZmZsaW5lX2FjY2VzcyJdLCJhbXIiOlsicHdkIll19.RBJ3g2nkmdoGlBoJNdqcpcKw-ZHR1CPC2bcROv_1TuExJkvpWHkkjLOxGMC8lEL-WhkYiiqd_02UfsMsCdkLffkd7wNZrf7dUgvW7ucMDJ80-4dH60qrWBjr6BVF0K6ZPheFSvoQ1jkkCnjdyk-eFny7m90yvbO_adFxjKPeWoIHqTKdqJJDwa-0BQib5exvVMDuWk89r2WC5UIyTaSKLE5mAjFAvl-XxWzVG31wkoEGPxIuJPfwyjQCKPmyhSMugWGhGD0T-H9nrfdGqPPRdx-yuV5ceYnzvCGEHY_ZrOJ86vHjY2mTVaFdE5IqWhVrprxbTBfa7QcQJJ1_QrDzww"

b.      Diagrama de la Base de Datos

**formheaders**
- Id INT(11)
- Name VARCHAR(80)
- Instructions VARCHAR(4096)
- Status VARCHAR(1)
- MinAgeMonths INT(11)
- MinAgeDays INT(11)
- MaxAgeMonths INT(11)
- MaxAgeDays INT(11)
- Indexes

**customaction**
- Id INT(11)
- Name VARCHAR(45)
- Description VARCHAR(255)
- AttendanceId INT(11)
- Indexes

**actionplan**
- Id INT(11)
- Name VARCHAR(45)
- Description VARCHAR(255)
- Indexes

**personcredential**
- Id INT(11)
- PersonId INT(11)
- CredentialId INT(11)
- Indexes

**credential**
- Id INT(11)
- Hash VARCHAR(255)
- Salt VARCHAR(255)
- Status VARCHAR(1)
- Index INT(11)
- CreateDate DATE
- Indexes

**role**
- Id INT(11)
- Description VARCHAR(45)
- Status VARCHAR(1)
- Indexes

**location**
- Id INT(11)
- Address VARCHAR(255)
- JoinDate DATETIME
- Phone VARCHAR(15)
- 3 more...
- Indexes

**roleclaim**
- Id INT(11)
- RoleId INT(11)
- ClaimId INT(11)
- Indexes

**person**
- Id INT(11)
- Dni INT(11)
- Email VARCHAR(45)
- FirstName VARCHAR(45)
- LastName VARCHAR(100)
- DOB DATE
- Phone VARCHAR(15)
- Mobile VARCHAR(15)
- Status VARCHAR(1)
- JoinDate DATE
- LastLogin DATETIME
- RoleId INT(11)
- LocationId INT(11)
- EarlyBirthAmount INT(11)
- Gender VARCHAR(1)
- sponsorId INT
- Indexes

**sponsor**
- Id INT
- Description VARCHAR(45)
- Phone VARCHAR(15)
- Status VARCHAR(1)
- Indexes

**result**
- Id INT(11)
- AttendanceId INT(11)
- Value INT(11)
- AreaId INT(11)
- Index INT(11)
- Indexes

**classroom**
- Id INT(11)
- Classyear YEAR(4)
- Section VARCHAR(2)
- Status VARCHAR(1)
- TeacherId INT(11)
- GradeId INT(11)
- Indexes

**area**
- Id INT(11)
- Name VARCHAR(45)
- Status VARCHAR(1)
- Indexes

**attendanceplan**
- Id INT(11)
- AttendanceId INT(11)
- ActionPlanId INT(11)
- Indexes

**claim**
- id INT(11)
- Value VARCHAR(100)
- Status VARCHAR(1)
- Type VARCHAR(100)
- Indexes

**studentclassroom**
- Id INT(11)
- StudentId INT(11)
- ClassroomId INT(11)
- Indexes

**formplan**
- id INT(11)
- FormId INT(11)
- ActionPlanId INT(11)
- Indexes

**grade**
- Id INT(11)
- Description VARCHAR(100)
- LocationId INT(11)
- MinAgeYears INT(11)
- MaxAgeYears INT(11)
- MinAgeMonths INT(11)
- MaxAgeMonths INT(11)
- Indexes

**attendance**
- Id INT(11)
- Date DATETIME
- FormId INT(11)
- StudentId INT(11)
- ApplicatorId INT(11)
- Status VARCHAR(1)
- Indexes

**formareas**
- Id INT(11)
- FormId INT(11)
- AreaId INT(11)
- MinValue DECIMAL(10,0)
- MaxValue DECIMAL(10,0)
- Indexes

c.    Datos precargados.

# Tipos de Usuarios Precargados

| DNI | FirstName | LastName | Status | RoleId | Description |
|-----|-----------|----------|--------|--------|-------------|
| 18184 | Karina | Chinchilla | A | 1 | Super |
| 18182 | Diego | Jimenez | I | 1 | Super |
| 220 | Mauricio | Arias | A | 1 | Super |
| 18183 | Pamela | Gabriels | A | 2 | Administrador |
| 1003 | Maria | Cordero | A | 4 | Estudiante |
| 3001 | Daniel | Jimenez | A | 4 | Estudiante |
| 4004 | Sara | Marin | A | 4 | Estudiante |
| 1004 | Graciela | Marin | A | 4 | Estudiante |
| 3002 | Guillermo | Hernandez | A | 4 | Estudiante |
| 4005 | Daniel | Alonso | A | 4 | Estudiante |
| 1005 | Diego | Camacho | A | 4 | Estudiante |
| 3003 | Pablo | Vitoria | A | 4 | Estudiante |
| 2001 | Allan | Mora | A | 4 | Estudiante |
| 3004 | Daniel | Figueres | A | 4 | Estudiante |
| 2002 | Bryan | Jimenez | A | 4 | Estudiante |
| 3005 | Carmen | Ferrer | A | 4 | Estudiante |
| 2003 | Eduardo | Vitoria | A | 4 | Estudiante |
| 4001 | Martin | Cordero | A | 4 | Estudiante |
| 1001 | Martin | Ulate | A | 4 | Estudiante |
| 2004 | Jorge | Quesada | A | 4 | Estudiante |
| 4002 | Marvin | Ulate | A | 4 | Estudiante |

| | | | | | |
|---|---|---|---|---|---|
| 1002 | Marvin | Chavez | A | 4 | Estudiante |
| 2005 | Ximena | Arias | A | 4 | Estudiante |
| 4003 | Maria | Cordero | A | 4 | Estudiante |
| 5555 | Jorge | Arias | A | 5 | Profesor |
| 6666 | Daniel | Leiton | I | 5 | Profesor |
| 7777 | Jose Jose | Pachuca | A | 5 | Profesor |
| 8888 | Wilmer | Lopez | A | 5 | Profesor |
| 1111 | Yonatan | Leiton | A | 5 | Profesor |
| 9999 | Christoper | Meneses | I | 5 | Profesor |
| 2222 | Carolina | Medina | A | 5 | Profesor |
| 0 | Hanna | Gabriels | A | 5 | Profesor |
| 3333 | Nelson | Solis | A | 5 | Profesor |
| 4444 | Sara | Quesada | A | 5 | Profesor |

## All Teachers

| id | dni | Email | FirstName | LastName | RoleId | Status |
|---|---|---|---|---|---|---|
| 1 | 1111 | jaqloui1@gmail.com | Yonatan | Leiton | 5 | A |
| 2 | 2222 | caromedina@gmail.com | Carolina | Medina | 5 | A |
| 3 | 3333 | nelsolis@outlook.es | Nelson | Solis | 5 | A |
| 4 | 4444 | bryanalex@outlook.com | Sara | Quesada | 5 | A |
| 5 | 5555 | jorgearias@gmail.com | Jorge | Arias | 5 | A |
| 6 | 6666 | danielleiton93@gmail.com | Daniel | Leiton | 5 | I |
| 7 | 7777 | josealfaro83@gmail.com | Jose Jose | Pachuca | 5 | A |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | 8888 | wilmerlopez06@gmail.com | Wilmer | Lopez | 5 | A |
| 9 | 9999 | Meneses23@dehvi.com | Christoper | Meneses | 5 | I |
| 10 | 0 | hannaga45@dehvi.com | Hanna | Gabriels | 5 | A |

## Credentials

| dni | Password |
|---|---|
| TeacherDNI | Te$t1234 |

## Teacher with Students

| Teacherid | dni | Email | FirstName | LastName | RoleId | Status | ClassroomId |
|---|---|---|---|---|---|---|---|
| 1 | 1111 | jaqloui1@gmail.com | Yonatan | Leiton | 5 | A | 1 |
| 2 | 2222 | caromedina@gmail.com | Carolina | Medina | 5 | A | 2 |
| 3 | 3333 | nelsolis@outlook.es | Nelson | Solis | 5 | A | 3 |
| 4 | 4444 | bryanalex@outlook.com | Sara | Quesada | 5 | A | 4 |

## Grades

| Id | Description | MinAgeYears | MaxAgeYears | MinAgeMonths | MaxAgeMonths |
|---|---|---|---|---|---|
| 1 | Sala Cuna | 0 | 0 | 3 | 11 |
| 2 | Maternal I | 1 | 1 | 0 | 11 |
| 3 | Maternal II | 2 | 2 | 0 | 11 |
| 4 | Interactivo I | 3 | 3 | 0 | 11 |
| 5 | Interactivo II | 4 | 4 | 0 | 11 |
| 6 | Transición | 5 | 5 | 0 | 11 |

## All Students

| Classroom Id | Status | Student Id | Id | Dni | DOB | Early BirthA mount | FirstName | LastName | Gender | JoinDate | LocationId | RoleId | sponsorId | Status | SponsorId | Description | SponsorPhone | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | A | 11 | 11 | 1001 | 2016-12-30 | 3 | Martin | Ulate | M | 2019-10-21 | 1 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 1 | A | 12 | 12 | 1002 | 2016-11-20 | 5 | Marvin | Chavez | M | 2019-10-21 | 1 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 1 | A | 13 | 13 | 1003 | 2016-02-14 | 2 | Maria | Cordero | F | 2019-10-21 | 1 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 1 | A | 14 | 14 | 1004 | 2016-05-27 | 0 | Graciela | Marin | F | 2019-10-21 | 1 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 1 | A | 15 | 15 | 1005 | 2016-04-12 | 1 | Diego | Camacho | M | 2019-10-21 | 1 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 2 | A | 19 | 19 | 2004 | 2017-05-27 | 2 | Jorge | Quesada | M | 2019-10-21 | 2 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | A | 20 | 20 | 2005 | 2017-02-14 | 3 | Ximena | Arias | F | 2019-10-21 | 2 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 2 | A | 16 | 16 | 2001 | 2017-01-30 | 5 | Allan | Mora | M | 2019-10-21 | 2 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 2 | A | 17 | 17 | 2002 | 2017-03-30 | 6 | Bryan | Jimenez | M | 2019-10-21 | 2 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 2 | A | 18 | 18 | 2003 | 2017-04-04 | 0 | Eduardo | Vitoria | M | 2019-10-21 | 2 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 3 | A | 21 | 21 | 3001 | 2018-01-30 | 5 | Daniel | Jimenez | M | 2019-10-21 | 3 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 3 | A | 22 | 22 | 3002 | 2018-03-30 | 6 | Guillermo | Hernandez | M | 2019-10-21 | 3 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 3 | A | 23 | 23 | 3003 | 2018-04-04 | 0 | Pablo | Vitoria | M | 2019-10-21 | 3 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 3 | A | 24 | 24 | 3004 | 2018-05-27 | 2 | Daniel | Figueres | M | 2019-10-21 | 3 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |

| 3 | A | 25 | 25 | 3005 | 2018-02-14 | 3 | Carmen | Ferrer | F | 2019-10-21 | 3 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
|---|---|----|----|------|------------|---|--------|--------|---|------------|---|---|---|---|---|-----------|----------|---|
| 4 | A | 27 | 27 | 4002 | 2019-11-20 | 5 | Marvin | Ulate | M | 2019-10-21 | 4 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 4 | A | 28 | 28 | 4003 | 2019-02-14 | 2 | Maria | Cordero | F | 2019-10-21 | 4 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 4 | A | 29 | 29 | 4004 | 2019-05-27 | 0 | Sara | Marin | F | 2019-10-21 | 4 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 4 | A | 30 | 30 | 4005 | 2019-04-12 | 1 | Daniel | Alonso | M | 2019-10-21 | 4 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |
| 4 | A | 26 | 26 | 4001 | 2019-12-30 | 3 | Martin | Cordero | M | 2019-10-21 | 4 | 4 | 1 | A | 1 | Coca Cola | 88734545 | A |