

# Xamarin Assignment 2 Report

The final application for Xamarin assignment 2 is a fake user generator for services provides. . The application allows the user to create, review and delete fake user data. This assignment consists of 3 pages that consumes the “https://randomuser.me/api” web service. This web API is a free, open-source API for generating random user data. Like Lorem Ipsum but for people. The API provides a JSON object that can be parsed and apply in our assignment. Example of the received JSON object:

```
{
  "results": [
    {
      "gender": "male",
      "name": {
        "title": "mr",
        "first": "brad",
        "last": "gibson"
      },
      "location": {
        "street": "9278 new road",
        "city": "kilcoole",
        "state": "waterford",
        "postcode": "93027",
        "coordinates": {
          "latitude": "20.9267",
          "longitude": "-7.9310"
        },
        "timezone": {
          "offset": "-3:30",
          "description": "Newfoundland"
        }
      },
      "email": "brad.gibson@example.com",
      "login": {
        "uuid": "155e77ee-ba6d-486f-95ce-0e0c0fb4b919",
        "username": "silverswan131",
        "password": "firewall",
        "salt": "TQA1Gz7x",
        "md5": "dc523cb313b63dfe5be2140b0c05b3bc",
        "sha1": "7a4aa07d1bedcc6bcf4b7f8856643492c191540d",
        "sha256": "74364e96174afa7d17ee52dd2c9c7a4651fe1254f471a78bda0190135dcd3480"
      },
      "dob": {
        "date": "1993-07-20T09:44:18.674Z",
        "age": 26
      },
      "registered": {
        "date": "2002-05-21T10:59:49.966Z",
        "age": 17
      },
      "phone": "011-962-7516",
      "cell": "081-454-0666",
      "id": {
        "name": "PPS",
        "value": "0390511T"
      },
      "picture": {
        "large": "https://randomuser.me/api/portraits/men/75.jpg",
        "medium": "https://randomuser.me/api/portraits/med/men/75.jpg",
        "thumbnail": "https://randomuser.me/api/portraits/thumb/men/75.jpg"
      },
      "nat": "IE"
    }
  ],
  "info": {
    "seed": "fea8be3e64777240",
    "results": 1,
    "page": 1,
    "version": "1.3"
  }
}
```

Based on the received data I have created models for address, login, name, picture and street. For the other data I haven't made use of them because it doesn't need to be displayed to the user such as salt, md5, info, longitude, latitude, etc. Using the web API, the user of the application can create a fake user, review the fake user details once the user is created and delete a fake user. The application also stores the fake user in an SQLite database. The database is capable of getting all the fake users from the database to be displayed, updating and inserting fake users and deleting existing users. The database stores a user with the following fields mandatory int id auto increment by 1, mandatory strings service name, at least 1 or all of the optional string fields gender, name, email, username, password, phone, cell, picture, address and dob of type datetime.

```
[PrimaryKey, AutoIncrement]  
public int ID { get; set; }
```

```
string serviceName;
```

```
string gender;  
string name;  
string email;  
string username;  
string password;  
DateTime? dob;  
string phone;  
string cell;  
string picture;  
string address;
```