# Android exercise

You have to develop the Android app for an IUD (AKA CRUD) example application. We provide the HTTP REST endpoints and you have to build everything from there.

The only mandatory requirement is to use Android as framework and make it look awesome.

Other optional and desirable features:  
(Choose those which you feel comfortable with)

* functional
  + (client side) list filtering
  + adaptive layout
  + undo feature in edition
  + server error handling
  + unit testing
  + multi-language support
* design
  + use the material theme

## Suggestions

Feel free to use any third party library you like.

Small files and semantic folder structure will be appreciated.

We like fragments, they help to keep the files small. Not mandatory.

We know is a very ~~stupid~~ simple app (it’s an exercise), but work thinking it’s the beginning of a larger project. Some elements have no sense for the IUD requirement but it would be great if anyone want to add the IUD for another entity.

We are very (VERY) strict with naming and conventions ([the “other” hard problem](http://martinfowler.com/bliki/TwoHardThings.html)). There is no Good Convention, just choose one and keep it coherent.

# API

data format: JSON

## user model

int Id // database identity

string Name

DateTime Birthdate

## endpoints

### get all

* url: <http://hello-world.innocv.com/api/user/getall>
* method: **GET**
* params: **<none>**
* returns: **List<user>**

### get

* url: <http://hello-world.innocv.com/api/user/get>/{id}
* method: **GET**
* params: **id** (int)
* returns: **user**

### create

* url: <http://hello-world.innocv.com/api/user/create>
* method: **POST**
* params: **user**
* returns: **user** (with generated id)

### update

* url: <http://hello-world.innocv.com/api/user/update>
* method: **POST**
* params: **user**
* returns: **user**

### remove

* url: <http://hello-world.innocv.com/api/user/remove>/{id}
* method: **GET**
* params: **id** (int)
* returns: **<void>**