INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO
(ISEP)

LICENCIATURA EM ENGENHARIA DE TELECOMUNICAÇÕES E
INFORMÁTICA (LETI)

DESENVOLVIMENTO DE SOFTWARE E SISTEMAS MÓVEIS (DSSMV)

DSSMV: PL: Week 5

Setting Up School Application Web Service and School Client screens

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1   Boot Service: SchoolApplication Webservice

To develop this project we need to have an webservice up and running.

For that we will use a school application.

To run it on your computer download it from moodle the zip named: `SchoolDiskAPI.zip`

After that use only ONE of the following approaches (one per section) to execute the webservice on your computer.

1.1   Boot Service: Java

- Install JAVA 11 in your PC. Provably it is already installed.

- In the folder were you extracted `SchoolDiskAPI.zip` run the following command:

`java -jar dist/SchoolDiskAPI-0.0.1-SNAPSHOT.jar`

If it fails you can also try (PAY ATENTION the version number may vary from one PC to other):

`"C:\Program Files\Amazon Corretto\jdk11.0.12_7\bin\java.exe" -jar dist/SchoolDiskAPI-0.0.1-SNAPSHOT.jar`

- Check the webservice docs in http://localhost:8585/swagger-ui.html

- Perform REST requests

1.2   Boot Service: Gradle

- In the folder were you extracted `schoolApi.zip` run the following command:

`.\gradlew.bat bootRun`

- Check the webservice docs in http://localhost:8585/swagger-ui.html

- Perform REST requests

1.3   Boot Service: Docker

- Install docker desktop in your PC. You can download from https://www.docker.com/products/docker-desktop

- In the folder were you extracted `schoolApi.zip` run the following command:

`docker-compose up -d -build`

- Check the webservice docs in http://localhost:8585/swagger-ui.html
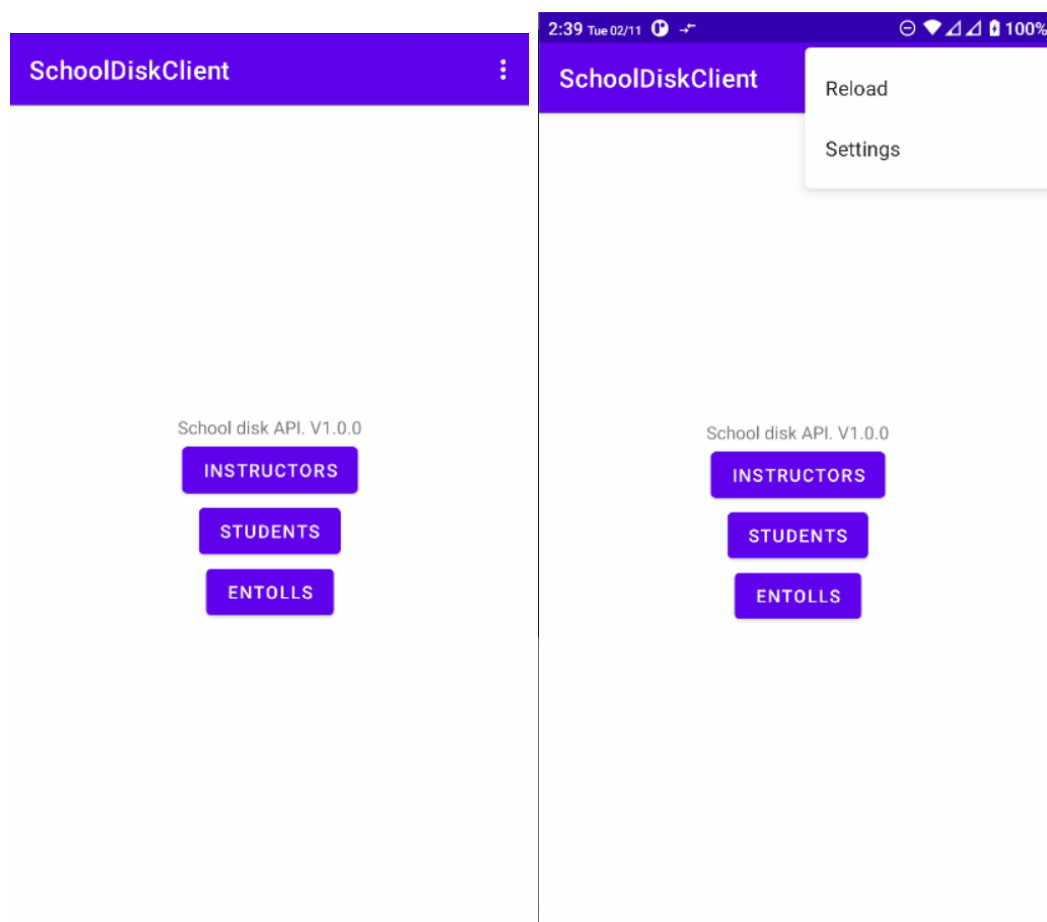
- Perform REST requests

2   School Client: The Screens

In IntelliJ create a new android project.

And create the following screens sequence:
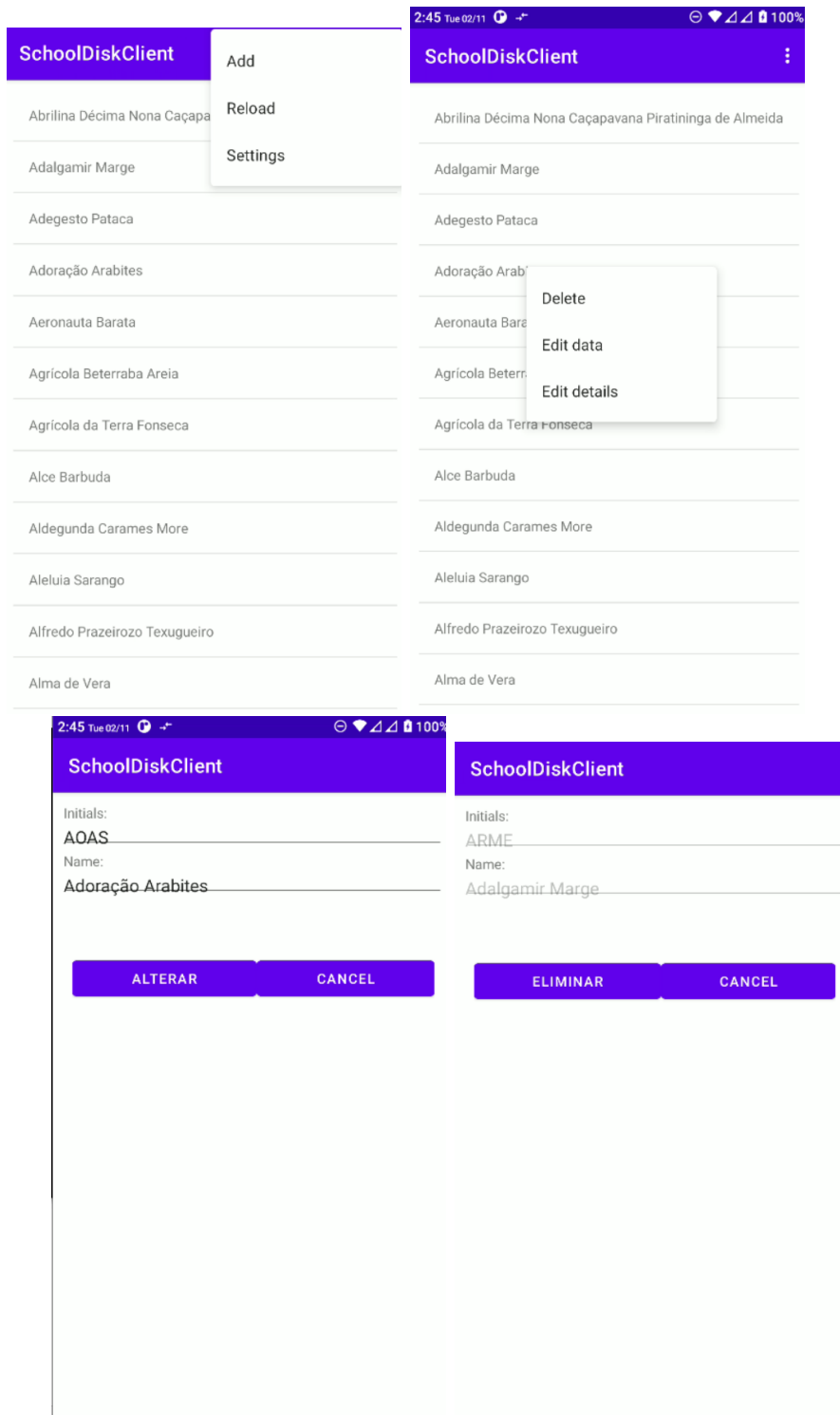

The settings screens should look like this:

When the user clicks on SET the ip of the remote API should be stored in the shared preferences. You can verify that in the request /v1/school/version in the swagger docs.

Then draw the instructors screen. It should look like this:

If you want to test your UI we suggest to have a simulated database in

`strings.xml` as performed on previous exercises.