

## 3JVA – Google Android Development Project

Document content

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Delivery

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## 1 CONTEXT

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SupSMS company wants to provide a backups service of contacts and SMS and needs you to develop it.

This system to save sms and contacts from a smartphone on an external server of the SUPSMS company. For that, use SUPSMS API.

**This project must be done by groups, each containing 3 or 4 students maximum.  
Working in a bigger group will be sanctioned by penalties points.**

## 2 SPECIFICATIONS

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The first version of the website will be composed of several functionalities listed below:

- Login:
  - Login an user
  - Logout
- Backups:
  - Can save all sms
  - Can save all contacts

### 2.1 LOGIN

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To access SUPSMS services, it's necessary to connect a user.

A user is defined by a username, a password, a phone number, last name, first name, postal address and email.

To authenticate a user, use the username and password.

It's necessary to have a login activity on the application at starting if the application doesn't know the username and password of the user.

When authentication is successful, the API of services returns the user in a JSON object.

### 2.2 SMS BACKUPS

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Sms sent and received must be sent in JSON format in an array named "sms".

It's also necessary to send the username and password of the application user.

The body text messages must be encoded in base 64 to avoid encoding problem.

### 2.3 CONTACTS BACKUPS

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Contacts must be sent in JSON format in an array named "contacts".

It's also necessary to send the username and password of the application user.

A contact is composed of at least the following information:

- an id as "\_ID"
- an display name as "DNAME"
- a phone number as "PNUM" or a email address as "EMAIL"

You can add other information.

### 2.4 API

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An online version of the API is available at <http://91.121.105.200/API/>

It is possible to download the API to have it on your own server.

A user exists to test the functionality of your application.

Username "admin" password "admin"

This API works by HTTP POST.

Three methods are available:

To check an user use the "login" action:

Parameters:

- action=login
- login= "an username"
- password= "the password"

If successful, returns a json of the user and a state "success" as "true".

If failure, returns a state "success" as "false" in a JSON object.

To send a SMS backup use the "backupsms" action:

Parameters:

- action=backupsms
- login= "an username"
- password= "a password"
- box= "sent" or "inbox"
- sms= "a json array of SMS object"

If successful, returns a state "success" as "true" in a JSON object.

If failure, returns a state "success" as "false" in a JSON object.

To send a contacts backup use the "backupcontacts" action:

Parameters:

- action=backupcontacts
- login= "an username"
- password= "a password"
- contacts= "a json array of contacts object"

If successful, returns a state "success" as "true" in a JSON object.

If failure, returns a state "success" as "false" in a JSON object.

You can find examples on <http://91.121.105.200/API/>

### 2.5 ABOUT ACTIVITY

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This activity shows a resume of this mobile application and presents your team.

### 2.6 LOG OUT

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This functionality must log the user out and returns the user to the login activity.

## 3 INSTRUCTIONS

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- Plagiarism is forbidden.
- Make accessible his code on a public sharing platform (as GitHub) before the end of the evaluation is forbidden.

Don't abiding by these rules will result in suspension of your assessment and will be considered cheating.

## 4 NOTATION

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Functionalities	Points
Backup sms	3
Backup contacts	2
Login	2
Log out	1
About activity	1
Code Quality & Conventions	1
Oral presentation	5
Oral technical questions	5
<b>TOTAL</b>	<b>20/20</b>

## 5 RETURN

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Return your graded exercise as a ZIP archive named as follows:

**3JVA\_SupSMS\_Campus\_IdBooster.zip.**

For example: 3JVA\_SupSMS\_Troyes\_10000.zip

Not following this convention will result in point loss.

Create an archive with your source code and an APK.

You will send the archive **to your Teacher SUPINFO email address and a copy to**

**3JVA@supinfo.com** to secure your project. Send it **before the 8<sup>th</sup> February 2015 before midnight**. After that delay, your graded exercise **will not be corrected and the mark 0 will be assigned to you.**