



ft_hangouts

The Grand Ambassador

Summary: This project is designed to help you become familiar with mobile development. You will be creating a contact management application specifically for Android.

Version: 5

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Foreword

No snow on Mount Fuji,
Nore flowers in the cherry trees,
No grass on my flowerbeds,
its reign is mineral.

Magic is the liquid,
magic is the source,
magic is the crystal,
magic is the garden.

[illegible]

crystal, crystal, crystal, crystal

You cannot touch it.

You're not ready, you can just gaze it,
Your eyes are ready, you can stand it.

Wooaaaa

Oh it's beautiful, it's beautiful, it's beautiful

The wizard gardener
doen't need manure in his garden.

Shiny like stars,
Shiny like a waveless sea,
Shiny like a big dog teeth.

Shiny like insects,
Shiny like a sausage,
Shiny like teen skin.

crystal oh crystal
crystal oh crystal
crystal oh crystal
crystal oh crya ha ha

Salut C'est Cool - The wizard gardener

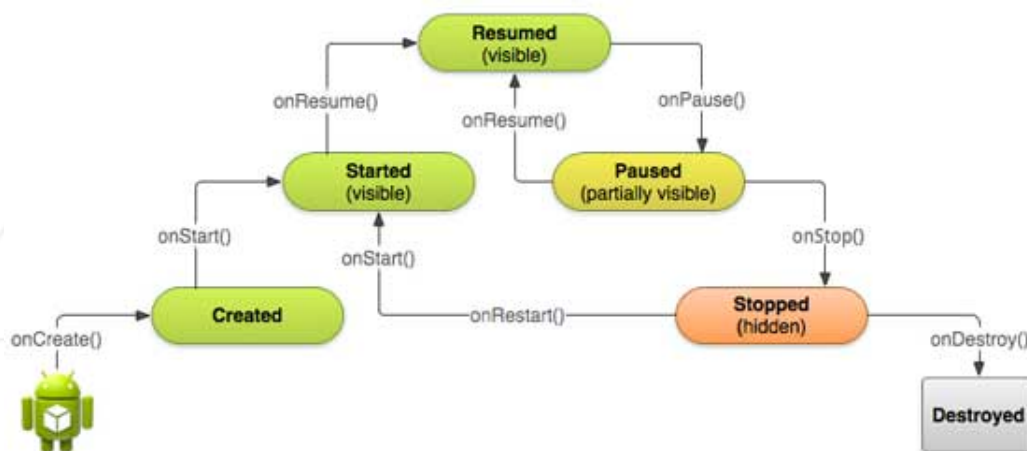
Chapter II

Introduction

In this project, you will design a mobile application that enables users to create and manage contacts and send text messages.

The goal is to gain hands-on experience with how mobile applications work, and more specifically, how the Android operating system interacts with your application. You will use the Android SDK to develop your application.

Here is an overview of the Android Activity Lifecycle:



Chapter III

Objectives

You must complete several tasks to understand how an Android app functions. The goal is to create an app that allows users to create contacts (with at least 5 fields), edit them, and delete them. Once a contact is saved, users should be able to exchange text messages.

Contacts must be stored persistently using an SQLite database. Do not use the system's shared contact table—create your own. A summary of each contact should be displayed in a list on the app's homepage. Users should be able to tap on each contact to view their details.

Your app must support two different languages, one of them being the default. Changing the system language should update the app's language accordingly. When the app is sent to the background, the timestamp should be saved and displayed in a *Toast* when the app returns to the foreground. A menu should allow users to change the header color. The app icon must be the 42's logo.

Chapter IV

General Instructions

- This project will be evaluated by humans only.
- Feel free to use any language you like.
- No external libraries are allowed (including for UI design).



You are strongly advised to use Android Studio as your IDE. Note that Google no longer supports the ADT plugin for Eclipse.

Chapter V

Mandatory part

You must implement the following features:

- Create a contact.
- Edit a contact.
- Delete a contact.
- Homepage displaying a summary for each contact.
- Send text messages to contacts.
- Receive text messages from saved contacts.
- Display a conversation history showing sender and receiver.
- Menu to change the header color.
- Support two different languages.
- Display a Toast with the time the app was last backgrounded.
- App supports both landscape and portrait modes.
- App icon must be the 42's logo.

Chapter VI

Bonus part

You can implement the following additional features:

- Add a profile picture to each contact.
- Automatically create a new contact if a message is received from an unknown number, using the number as the name.
- Improve the UI using clean Material Design principles.
- Add functionality to call a contact directly from the app.



The bonus part will only be evaluated if the mandatory part is **Perfect**. "Perfect" means all mandatory features must be fully implemented and functioning correctly. If any mandatory feature is missing or not working, the bonus part will not be evaluated.

Chapter VII

Submission and peer-evaluation

Submit your assignment in your `Git` repository as usual. Only the content of the repository will be evaluated during the defense. Double-check folder and file names to make sure they are correct.