



University of Mila
Computer Science Department

Third-year Bachelor
Mobile Applications Course

Chapter 1

Part 2

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2025/2026



Statistics



42matters

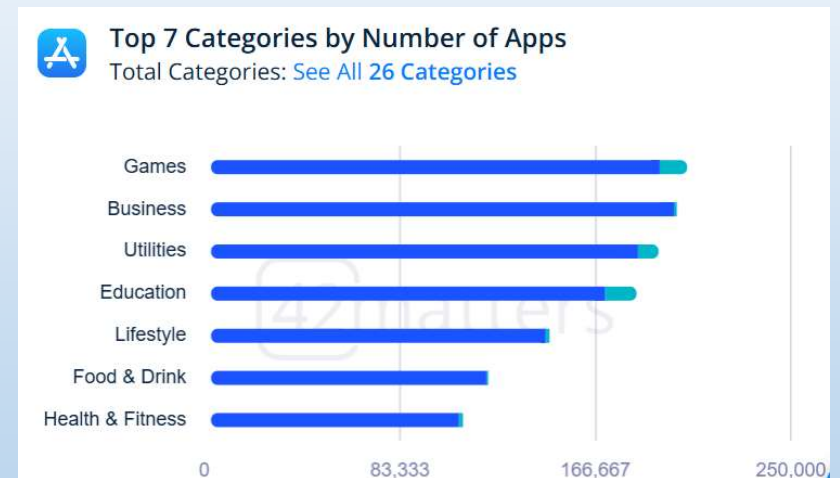
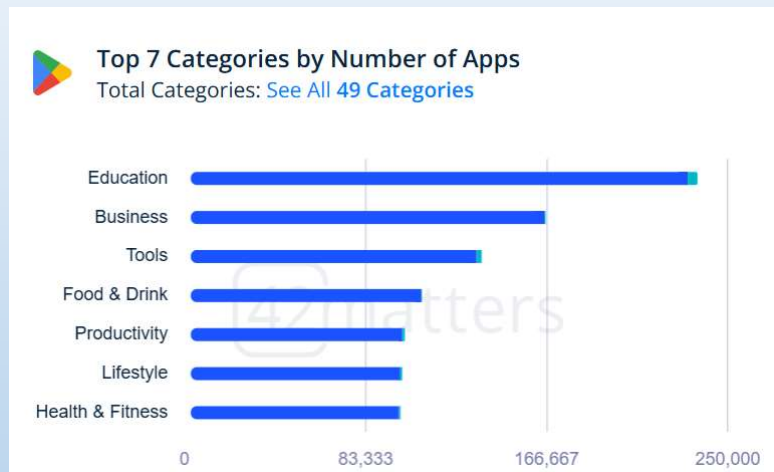
20 February 2025

1,907,646 applications
are available for download
on the
App Store

2,062,857 applications are
available for download on
the **Google Play Market**

42matters

20 February 2025



Bigohtech 2024

App	Revenue (\$bn)
TikTok	2.7
Honor of Kings	1.47
YouTube	1.2
PUBG Mobile	1.14
Google One	1.07
Candy Crush Saga	0.95
Disney+	0.94
Genshin Impact	0.94
Roblox	0.86
Royal Match	0.83

Estimated that revenues will increase over the
next few years



Atteignant environ **613 milliards** de dollars
d'ici **2025**

What is a Mobile Application?



In computing terminology

Application → executed program → computer or mobile device

Application → allows the user → to perform one or more actions related to a single theme

**These applications are available on download
PLATFORMS for mobile devices**

Mobile application



Downloadable software that can be easily installed on a **smartphone**, just like we install software on a laptop.

Download



It can be done in two ways

Directly on the **phone** via an internet connection

On a **computer** by connecting it to the mobile phone

For mobinautes (in french)



A mobile application is **similar** to a specialized website because of:

1. Its connection to the internet
2. The fact that the interface of a website and a mobile application can appear identical. However, an application is fundamentally defined as software.

In this sense, mobile applications can be grouped into several categories based on basic criteria

Working without internet



Standalone applications



They operate without requiring an internet or phone connection

Applications requiring a connection



These applications must have access to the internet in order to function

Connected applications



They require an internet connection to function properly

Applications interacting with other mobile users



They strengthen connections between mobile users instead of passively connecting on social networks

Types of Mobile Apps





Types

Types of Mobile Apps





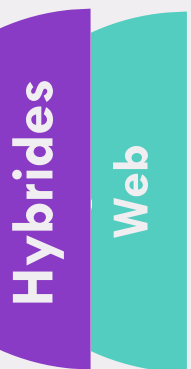
- Specific to a particular operating system
- This category is the most widespread today
- They are developed specifically for Android or iOS



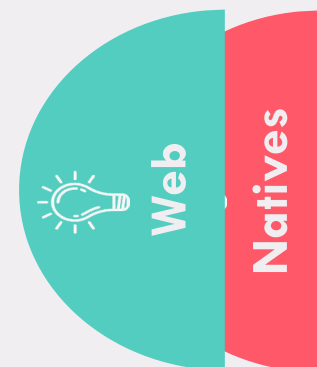
- Their development is carried out using the Software Development Kit (SDK) of the target platform.
- The term Native Apps comes from the fact that these applications are developed using only the platform's native language.

Kotlin and JAVA ⇔ Android ⇔ **Android Studio**

Objective C et Swift ⇔ Apple ⇔ **Xcode**



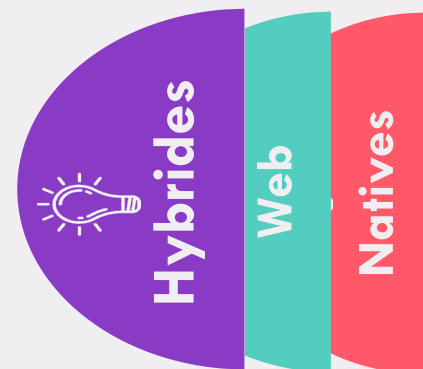
- Correspond to websites
- These sites are designed to provide a display fully optimized for mobile phones
- A web application also has the advantage of being accessible from a computer through a web browser



- The use of a web browser such as Microsoft Edge, Google Chrome, or Mozilla Firefox is essential to access this type of application.
- Unlike native applications, which require prior downloading and installation, web apps can be accessed directly through a mobile browser.
- Generally, these applications are developed using web technologies such as HTML5 or CSS3.

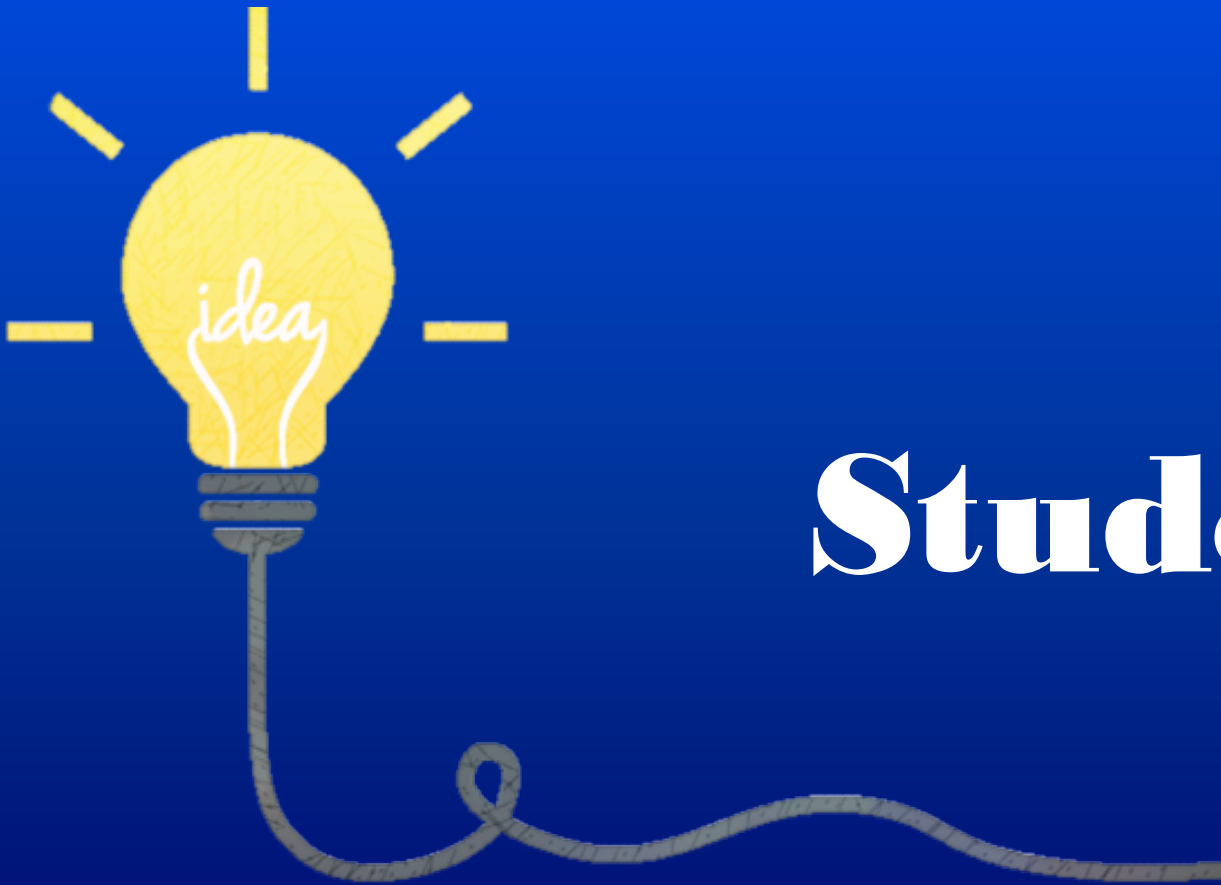


- They are presented as a mix between **Native Apps** and **Web Apps**.
- They are mainly developed using **HTML5**, and also use web languages such as **CSS** and **JavaScript**.
- They are not dependent on a specific platform. Unlike Web Apps, they can access all the features available on a mobile phone.
- They are embedded within a native application and run via a **WebView**. They can access information from the user's device.

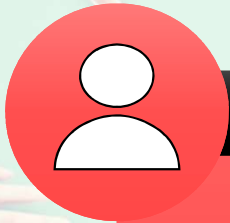


Did you know?

Android 1.0
Android 1.1
Android 1.5 Cupcake
Android 1.6 Donut
Android 2.0 Eclair
Android 2.2 Froyo
Android 2.3 Gingerbread
Android 3.0 Honeycomb
Android 4.0 Ice Cream Sandwich
Android 4.1 Jelly Bean
Android 4.4 KitKat
Android 5.0 Lollipop
Android 6.0 Marshmallow
Android 7.0 Nougat
Android 8.0 Oreo
Android 9.0 Pie
Android 10 Q
Android 11
Android 12
Android 13



Student ideas



Boudjatat Aya

An integrated mobile application that connects customers, retailers, and wholesalers.



Djebbar Chihab eddine

Programmé des applications mobile avec des nouvelles idées



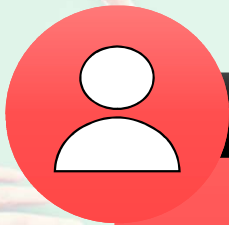
Boudjellal Safa

It would be extremely helpful if we had the freedom to choose whether we use Flutter or Android (Kotlin-Java) for development - i am personally interested in implementing animations and 3D to my projects which can make an app look more engaging and of course Any new and modern techniques



Abdelatif Belkays

An app that displays items for rent or sale
An app that offers laundry services



Zettili Fatima zohra

Prendre rendez vous chez le médecin

YOUR **FUTURE** IS DEFINED BY

WHAT **YOU** DO **TODAY**
~~NOT TOMORROW~~