

Mobile Platform - Introduction

CS2B01 - Desarrollo Basado en Plataformas - Unidad 3

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Logros

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- Discuss the constraints that mobile platforms put on developers [Familiarity]
- Discuss the performance vs power tradeoff [Familiarity]
- Compare and Contrast mobile programming with general purpose programming [Familiarity].

Introducción

Pair work

Enumera las diferencias:





Α.

В.

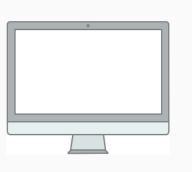
C.

D.

Ε

Pair work

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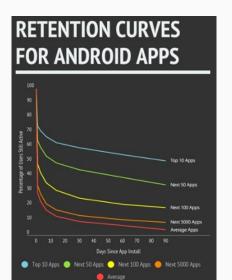




- A. Storage
- B. Screen sizes
- C. Battery
- D. Network bandwidth
- E. Updates

Client-Side Storage

• The average app loses 77% of its users within 3 days. Within 90 days, they've lost over 95% of those users [1].



Client-Side Storage

• Why? Most users simply don't have enough storage on their phones to download all the apps they want.



Reading 4 [2]

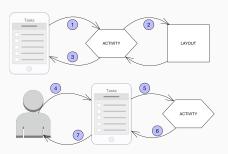
Understand the Activity Lifecycle

Android SDK

Activities and Views

- The activity is a single, focused thing that the user can do [4, 3].
 - Each activity is associated with a window in which to draw the user interface.
- The **view** is the basic building block for user interface components [4].
 - · Responsible for drawing and event handling.
 - · Examples: button, textbox

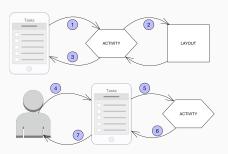
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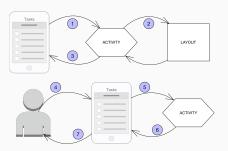
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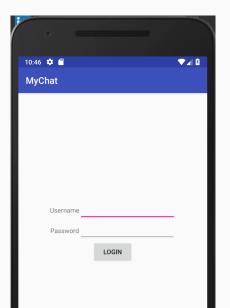


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- 7. ..which the user sees on the device.



Group Work

· Implement a mobile app to do a login in MyChat app



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Conclusion

Summary

Get the source of this demo presentation from

github.com/CSUTEC-CS2B01-B



Questions?

Abstract

- 1. Logros
- 2. Introducción
- 3. Android SDK
- 4. Conclusion

References I



The 5 ux constraints of mobile apps.

https://www.appcues.com/blog/ the-5-ux-constraints-of-mobile-apps-how-you-can-work

Accessed: 2018-05-20.



Understand the activity lifecycle.

https://developer.android.com/guide/components/activities/activity-lifecycle#javaUnderstand the Activity Lifecycle.

Accessed: 2018-05-20.



P. Deite.

Android How to Program (3rd Edition).

" Pearson.", 2016.

References II



D. Griffiths and D. Griffiths. Head First Android Development: A Brain-Friendly Guide. " O'Reilly Media, Inc.", 2017.