Basics of testing mobile apps

Assignment

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Install the "Instagram" app to your mobile device.

Create a checklist for testing this app with sections for different types of testing.

The checklist should contain at least **4 types of testing** and at least **5 tests of each type**.

CHECKLIST

**corrected after catching up with the video lesson & presentation

1.

- Check that the app switches to landscape viewport when the device is flipped.

- Check for color noise on UI elements on low brightness up to highest brightness levels.

- Check if double tapping on posts fills the like icon with red color.

- Check if the Feed loads the media content, on an infinite scroll, within 2 seconds max.

2.

- Check that the app keeps the current post's comments page after reopening it from background

- Check if device's CPU lowers when the app is sent in the background and inactive

- Check if the app's Video Call is stalled when switching Wi-Fi for 5G mobile data during the call

- Check if the app launches, under 2 seconds, on critical battery levels (under 3%)

- Check if the app crashes over 4 hours of continuous Reels play

3.

- Check that the app is refreshing for new posts during an audio call (using carrier and mobile data)

- Check if the app displays errors while refreshing feeds with Wi-fi interruptions (active/inactive)

- Check if the New Reel function disabled the camera after accepting a Video Call on Whatsapp
- Check if the app displays an error while taking a photo, after disabling Camera access from device's menu
- Check if New Reel feed is consistent while receiving over 5 SMS banner alerts

4.

- Check if the Feed media is related to the Geo-IP location, e.g. Romania mobile data location - with Romanian content on feed
- Check if switching app language, the app translates all visual elements accordingly
- Check if photo-tagging on a post, automatically detects nearby location based on Geo-IP
- Check if 'See translation' function converts the displayed language to English
- Check if allowing app's access to contacts, sync's existing IG accounts accordingly

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1. TYPE: Functional - GUI

Checks:

- Check if the email input alerts the user for invalid format - on the Register screen.
- Check if tapping the user icon, the app switches to the user's profile.
- Check if a Reel clip could be swiped upwards.
- Check if tapping Like on a post, the animation fills the heart icon with red.
- Check if the Feed page displays the load icon on pull and refresh interaction.

2. TYPE: Non-Functional - System - Configuration / Installation

Checks:

- Check if IG can be installed on Android devices OS 13.x and higher from Playstore.
- Check if IG can be installed on iPhone devices iOS 16.x and higher from AppStore.
- Check if IG can be installed on iPod Touch iOS 14.x and higher from from Appstore.
- Check if IG can be installed on desktops Windows 10 and higher from Microsoft Store.
- Check if IG can be installed on iPad devices iPad OS 16 from AppStore.

3. TYPE: Performance / Interoperability

Checks:

- Check if the app launches under 3 seconds on iPhone devices, as a new instance.

- Check if the app launches under 2 seconds on 1% low battery on iPhone devices.

- Check if the app plays Reels on 30fps constant, while running on low battery (1%).

- Check if the app receives notifications in the background while having an on-going phone call.

- Check if the app loads all content, under 2 seconds, from the Search grid, on poor signal strength mobile data.

4. TYPE: Functional - Integration - about API

Checks:

- Check if the login form autofills username and password from Google passwords manager

- Check if the Find your Account form finds accounts by their usernames.

- Check if the Login with Facebook signs into the app with the valid account.

- Check if a stored photo on the device can be shared to Instagram as a Story.

- Check if an already taken username cannot be chosen when creating a new account.