

## **Software Testing Life Cycle (STLC) for a Mobile Application: (LinkedIn):**

**(STLC):** stands for Software Testing Life Cycle. It is a set of processes and activities performed by testing teams to ensure the quality and reliability of software products.

### **STLC consists of:**

1. Requirement Analysis.
2. Test Planning.
3. Test Design.
4. Test Environment Setup.
5. Test Execution.
6. Defect Reporting.
7. Defect Tracking and Management.
8. Test Closure.

### **list of ideas we would test for:**

#### **User Authentication:**

- Verify user registration process.
- Test login functionality with valid and invalid credentials.
- Check forgot password functionality.
- Verify Login functionality with different authentication methods (email, phone number, LinkedIn account).
- Verify that users can log in using their social google accounts.

#### **Profile Setup:**

- Test profile creation with required information.
- Test profile editing and updating.
- Test profile picture upload and cropping.
- Test profile visibility settings.

### **Feed and Content:**

- Test feed loading and refresh functionality.
- Test content sharing options.
- Test multimedia content playback (videos, images).
- Test article reading and commenting.

### **Compatibility Testing:**

Verify that the application is compatible with various mobile devices (phones and tablets) and their different versions (iOS, Android). Ensure compatibility with different operating system versions (e.g., Android 9, iOS 14).

### **Download and Installation:**

Check that the application can be downloaded from the official app store (Google Play Store, Apple App Store). Verify that the installation process completes without any errors or crashes. Verify that user can uninstall the application.

### **App Icons and Names:**

Confirm that the app icon and name are displayed correctly on the home screen after installation.

### **Localization and Internationalization:**

- Test the app's support for multiple languages and regions.
- Verify the accuracy of translated text and localized content.
- Test the alignment and layout of UI elements with different text lengths and character sets.
- Verify that date, time, and currency formats adapt to the user's locale.

### **Search:**

- Test the layout and functionality of search screens (e.g., people, jobs, companies).
- Verify the accuracy and relevance of search results.
- Test filtering and sorting options for search results.
- Verify the behavior of recommendation and suggestion features (e.g., suggested connections, recommended jobs).

**Network connection:**

- Test the app's behavior when using a Wi-Fi network for network connectivity.
- Test the app's behavior when using cellular data for network connectivity.
- Test the app's behavior when switching between different network connections (e.g., Wi-Fi to cellular data, cellular data to Wi-Fi).
- Verify that the app seamlessly transitions between network connections without disrupting ongoing activities.
- Test the app's behavior when using different cellular data speed connection for network connectivity (3G/4G/5G).

**Networking:**

- Test the 'Connect' feature and verify that users can send connection requests to other LinkedIn members.
- Test the 'Follow' feature for influencers or companies and verify that users can follow updates from their network.
- Test the 'Message' feature and verify that users can send and receive messages within the app.

**Content Interaction:**

- Test the ability to post updates, articles, or media content to the user's feed and verify proper rendering.
- Test interactions with posts (e.g., like, comment, share) and verify that actions are reflected correctly.
- Test the 'Save' feature for bookmarking interesting posts or articles for later reference.

**Incoming Call Interruption:**

- Simulate an incoming call while the user is browsing the LinkedIn app.
- Verify that the app pauses or minimizes its activity and provides a notification for the incoming call.
- Test the app's ability to resume its previous state after the call ends without losing any data or progress.

**Incoming Message Notification:**

- Send a message to the user's device while they are actively using the LinkedIn app.
- Verify that the app displays a notification for the incoming message without disrupting the user's current activity.
- Test the app's ability to handle message notifications gracefully and allow the user to respond or dismiss the notification as needed.

**Low Battery Warning:**

- Simulate a low battery scenario while the user is interacting with the LinkedIn app.
- Verify that the app displays a low battery warning/notification to alert the user about the battery status.
- Test the app's behavior when the device enters low power mode, ensuring that it optimizes resource usage to conserve battery life without compromising functionality.

**Device Rotation:**

- Rotate the device orientation (landscape to portrait or vice versa) while the user is navigating within the LinkedIn app.
- Verify that the app adjusts its layout and content dynamically to accommodate different screen orientations without visual glitches or layout issues.
- Test the app's responsiveness to device rotation and ensure a seamless user experience across different screen orientations.

**Prioritization of the test cases:**

- User Authentication
- Profile Setup
- Feed and Content
- Compatibility Testing
- Download and Installation:
- App Icons and Names:
- Localization and Internationalization

- Search:
- Network Connection
- Content interaction
- Interruption
- Device Rotation

### **Bugs found:**

#### **Bug1 found in LinkedIn app:**

Title: In message section profile picture of some chats don't appear.

#### **Reproduce Steps:**

1. Open the app.
2. Navigate to messages section. (Notice that some people you have a conversation with them their profile picture don't appear)
3. Open the chat with one of them (Notice that their profile picture is displayed).

#### **Expected result:**

When user open messages section the profile picture of his friends

Should be displayed.

#### **Actual Result:**

When user open messages section the profile picture of some friends

Doesn't appear.

Priority: low

Severity: low

Attachment:



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**Bug 2 found in yalla kora app:**

Title: when user open an ongoing match and go to minute-by-minute section he got a blank page

Reproduce Steps:

- 1.open yalla kora app.
- 2.naviagte to matches page.

3. choose ongoing match.

4. go to minute-by-minute section.

Expected Result:

User should find minute by minute news about the match.

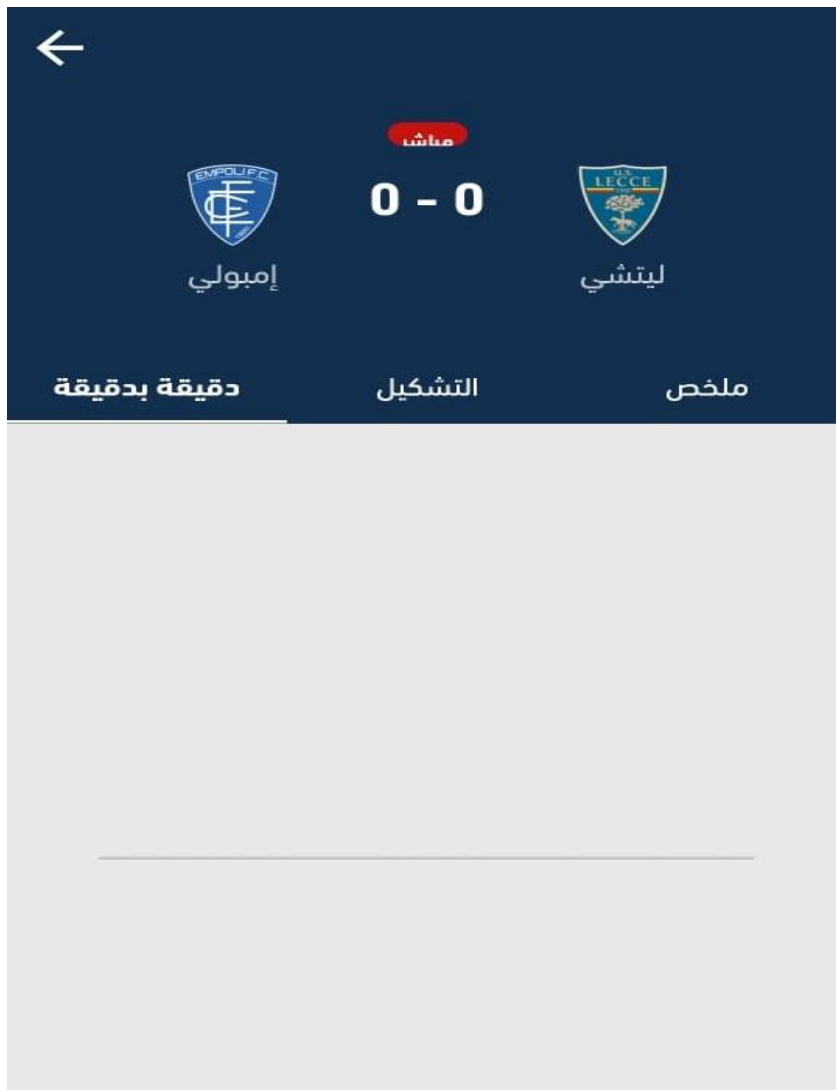
Actual Result:

User gets a blank page.

Severity: medium.

Priority: medium.

Attachment:



### Bug 3 found in yalla kora app:

Title: word “مباشر” is not centered in the red box.

Reproduce steps:

- 1.open yalla kora app.
- 2.naviagte to matches page.
- 3.choose ongoing match.

Expected Results:

word “مباشر” should be centered in the red box.

Actual Result:

word “مباشر” is not centered in the red box.

Attachment:





Severity: low.

Priority: low.

#### **Bug 4 found in yalla kora app:**

Title: slow response from the app when navigating between ended match section

1.open yalla kora app.

2.naviagte to matches page.

3.choose an ended match.

4.navigate between “ملخص”, “التشكيل”, “دقيقة بدقيقة” sections

Expected Result:

App response should be fast and smooth.

Actual result:

App response is slow, app freezes for some seconds before moving to anther section.

Severity: medium.

Priority: medium.

Attachment:

[https://drive.google.com/file/d/1VvONsa1oBGNtFXyJAYfTZHJ\\_a62SJUQI/view?usp=drivesdk](https://drive.google.com/file/d/1VvONsa1oBGNtFXyJAYfTZHJ_a62SJUQI/view?usp=drivesdk)

#### **Bug 5 found in yalla kora app:**

Title: word “انتهت” is not centered in the grey box.

Reproduce steps:

1.open yalla kora app.

2.naviagte to matches page.

3. choose ended match.

Expected Results:

word “انتهت” should be centered in the grey box.

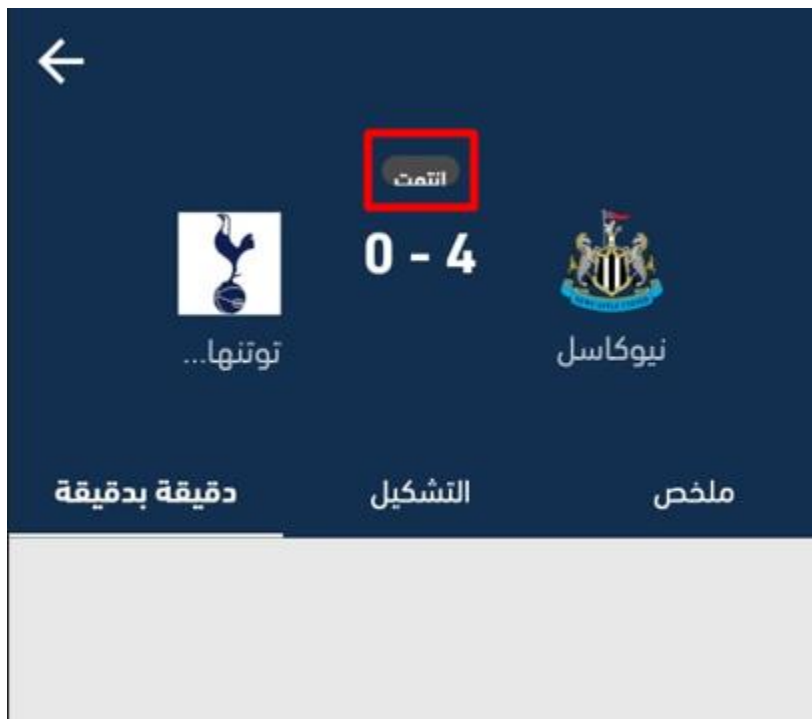
Actual Result:

word “انتهت” is not centered in the grey box.

Severity: low.

Priority: low.

Attachment:



### **Bug 6 found in yalla kora app:**

Title: every time user opens the app and go to “فرقك” section the app will ask him to choose his favorite team.

Reproduce steps:

1. open yalla kora app.

2. navigate to “فرقك” section.

3. choose “الدوري المصري”.

4. select “المصري”, “الزمالك”, “الاهلي”.

5. exit the app and reopen it again.

6. navigate to “فرقك” section.

Expected Results:

User should find the teams he has already choose.

Actual Result:

User will find “أضف فريقك” button to choose his favorite tea.

Severity: medium.

Priority: medium.

Attachment:

<https://drive.google.com/file/d/1WMDx9LZpUCxFmVZBjYM0juJHtgNZ2wIt/view?usp=drivesdk>