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Overview

Thanks for considering Thirdwayv for your next employment opportunity. This assignment aims to assess your knowledge of fundamental Mobile Testing principles. There is no single correct answer, and the goal is to explore your approach to this assignment, which will also be used as a discussion subject during the interview process.

The contents of this document should be treated as Confidential. You are expected to prepare the assignment without consulting with other third parties. Please delete any physical copies of this document and the downloaded copy upon completing the assignment.

This assignment is meant to evaluate candidates of various levels of expertise with Mobile Testing. In case you are not able to complete all tasks, either due to lack of time or lack of experience in particular areas of the assignment, we still encourage you to submit the deliverable you can prepare, however incomplete it may be, along with any notes about what you were unable to complete. It will help us understand where you can best fit into our team and prepare for the live technical interview.

The candidate might consider that any of the details in this document contain ambiguous or incomplete requirements. In that case, the candidate shall use their best judgment to fill in the gaps with assumptions and interpretations, and those assumptions should be documented within the code where appropriate.

Task

Implement a well-structured project using the Appium library and robot framework To automate calculator app testing.

You can refer to this link to learn how to set up the robot framework and Appium library setup.

<https://www.pentalog.com/blog/mobile-development/mobile-automation-with-robot-framework-and-appium/>

The app has three activities:

- Login activity (Figure 1).
- Calculator activity (Figure 2).
- Calculations history activity (Figure 3).

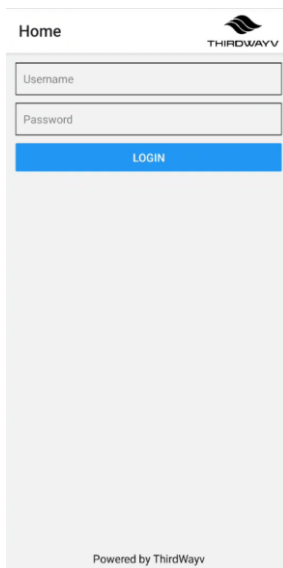


Figure 1

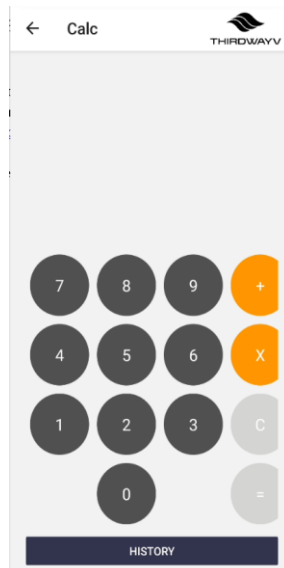


Figure 2

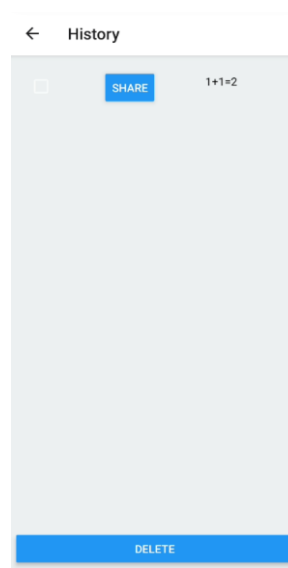


Figure 3

Test cases you need to implement:

1. **Login with invalid credentials should fail to log in.**
 - Wrong credentials
 - Empty credentials.
2. **Login with valid credentials (Username: admin, Password: 1234) should log in successfully.**
3. **Test addition and multiplication to generate correct results.**
4. **Test the clear button should clear the screen.**
5. **Test History button should open the calculations history.**
6. **Test the delete option on the history screen should delete all checked calculations.**

Contact Information

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