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**LEARNING REPORT**

**DIGI BOX AUTOMATION TESTING**

**DigiBox**

**Document History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ver. Rel. No.** | **Release Date** | **Prepared. By** | **Reviewed By** | **Approved By** | **Remarks/Revision Details** |
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# PROBLEM STATEMENT:

Develop automated test case, test data and automated test script for the following screen of the Digi Box application.

# LITERATURE SURVEY:

1. **The Oracle Problem in Software Testing: A Survey**

Testing involves examining the behaviour of a system in order to discover potential faults. Given an input for a system, the challenge of distinguishing the corresponding desired, correct behaviour from potentially incorrect behavior is called the “test oracle problem”. Test oracle automation is important to remove a current bottleneck that inhibits greater overall test automation. Without test oracle automation, the human has to determine whether observed behaviour is correct. The literature on test oracles has introduced techniques for oracle automation, including modelling, specifications, contract-driven development and metamorphic testing. When none of these is completely adequate, the final source of test oracle information remains the human, who may be aware of informal specifications, expectations, norms and domain specific information that provide informal oracle guidance. All forms of test oracles, even the humble human, involve challenges of reducing cost and increasing benefit. This paper provides a comprehensive survey of current approaches to the test oracle problem and an analysis of trends in this important area of software testing research and practice.

1. **Automated Testing of Android Apps: A Systematic Literature Review**

Automated testing of Android apps is essential for app users, app developers, and market maintainer communities alike. Given the widespread adoption of Android and the specificities of its development model, the literature has proposed various testing approaches for ensuring that not only functional requirements but also nonfunctional requirements are satisfied. In this paper, we aim at providing a clear overview of the state-of-the-art works around the topic of Android app testing, in an attempt to highlight the main trends, pinpoint the main methodologies applied, and enumerate the challenges faced by the Android testing approaches as well as the directions where the community effort is still needed. To this end, we conduct a systematic literature review during which we eventually identified 103 relevant research papers published in leading conferences and journals until 2016. Our thorough examination of the relevant literature has led to several findings and highlighted the challenges that Android testing researchers should strive to address in the future. After that, we further propose a few concrete research directions where testing approaches are needed to solve recurrent issues in app updates, continuous increases of app sizes, as well as the Android ecosystem fragmentation.

# Requirements:

## High Level Requirements

|  |  |
| --- | --- |
| ID | DESCRIPTION |
| H\_01 | Selenium Software |
|  |  |
|  |  |

## Low Level Requirements

|  |  |
| --- | --- |
| ID | DESCRIPTION |
| L\_01 | Operations |
|  |  |
|  |  |

# Test Plan

## High Level Test Plan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **DESCRIPTION** | **PRE-CONDITION** | **EXPECTED INPUT** | **EXPECTED OUTPUT** | **ACTUAL OUTPUT** |
| H01 | To add Studio | Add Studio details | Is Admin | Added studio |  |
| H02 | To add Airline | Add Airline details | Is Admin | Added airline |  |
| H03 | To manage User | Managing the users | Is Admin | Managing the users and their details |  |
| H04 | To add Media | Adding the media contents | Is studio user | Adding the media contents to the page |  |
| H05 | To Modify media | Modifying the media content | Is studio user | Modifying the media content |  |
| H06 | To remove media contents | Removing media contents | Is Studio user | Removing the media contents |  |
| H07 | To buy a movie | Buying the movie | Buying from studio & labs | Buying the media like movies |  |
| H08 | To buy TV shows | Buying TV shows | Buying studio content | Buying the media like TV shows |  |
| H09 | To buy Audio & special contents | Buying Audio & Special contents | Buying audio content | Buying the media like audio and special contents |  |

## Low Level Test Plan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | DESCRIPTION | PRE-CONDITION | EXPECTED INPUT | EXPECTED OUTPUT | ACTUAL OUTPUT |
| L01 | Validating the login details | Authenticated users | Valid credentials | Login to the dashboard |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |