Software Testing Project Report

On

Dashboard Reporting (Testlink Module)

Submitted To

Mr. Sreenivasa Sharma

Submitted By

Devesh Singh Rawat (MT2013046)

Joydeep (MT2013062)

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1. Introduction:

1.1.Purpose:

Purpose of this document is to document the development details of Dashboard Reporting.

Document could be referred to understand the flow or technical details

1.2.Scope:

This document aims to document specifics related to the Testlink module only

2. Project Objective:

In present scenario, Altisource uses various tools to capture various stages of project development. Each stage uses specific tools to capture required data. Report corresponding to the captured data may or may not be shown by tool. Also for single project phase company might use different tools for ex: For testing of the project company could use JIRA or SELENIUM, so even testing data for the project might not be at single place. So, to generate one shot report for higher management to give overall and précised progress status of the project is very difficult.

To overcome all these challenges, Dashboard Reporting project is being developed. Project aims to develop reporting system that can capture all aspects of the project life cycle. It also aims to generate summary reports that could be used by higher management to obtain one shot high level and accurate reports on project development status.

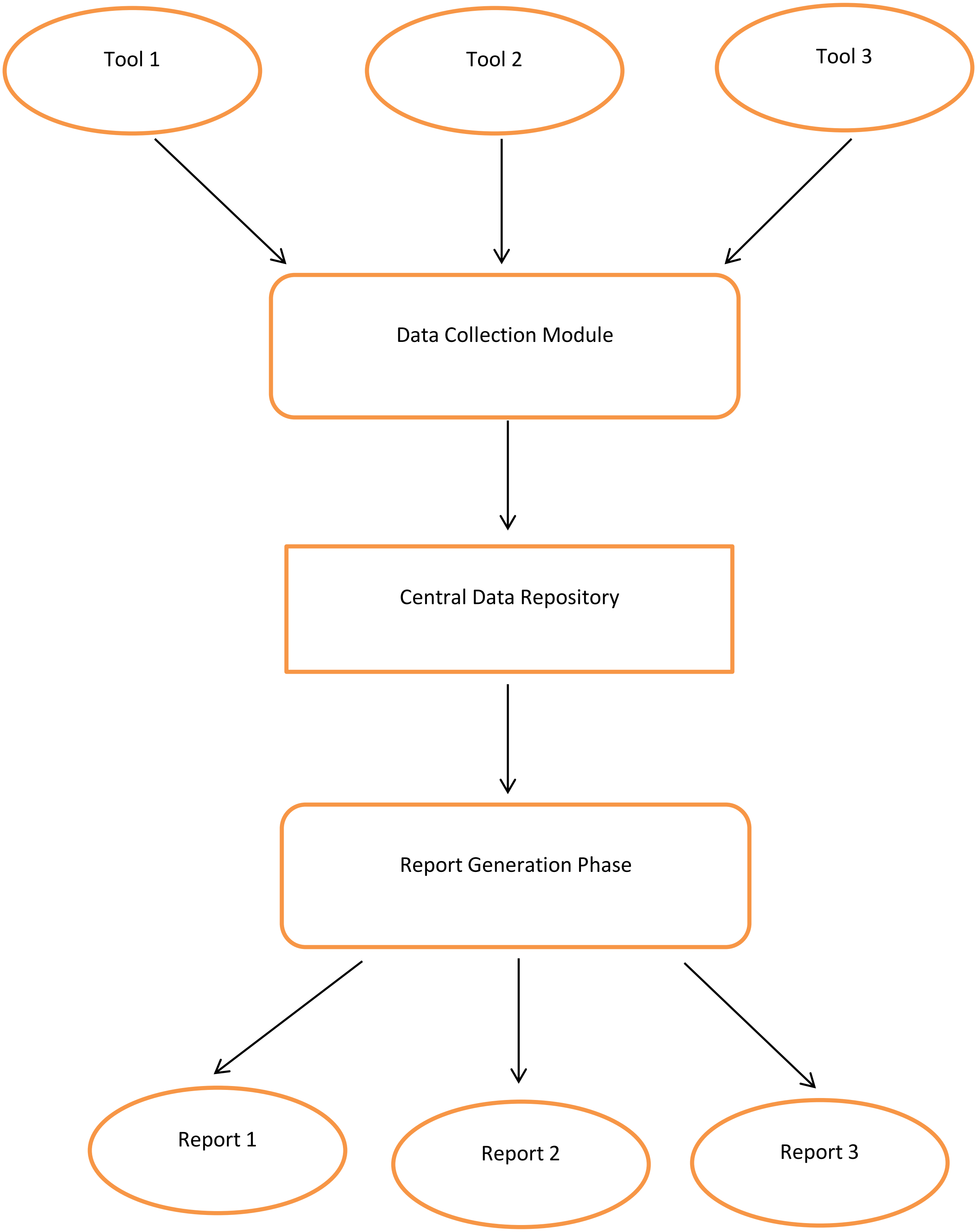
3. Project Architecture:

3.1. Connect to tool(s) database via API's

3.2. Fetch data from tool(s)

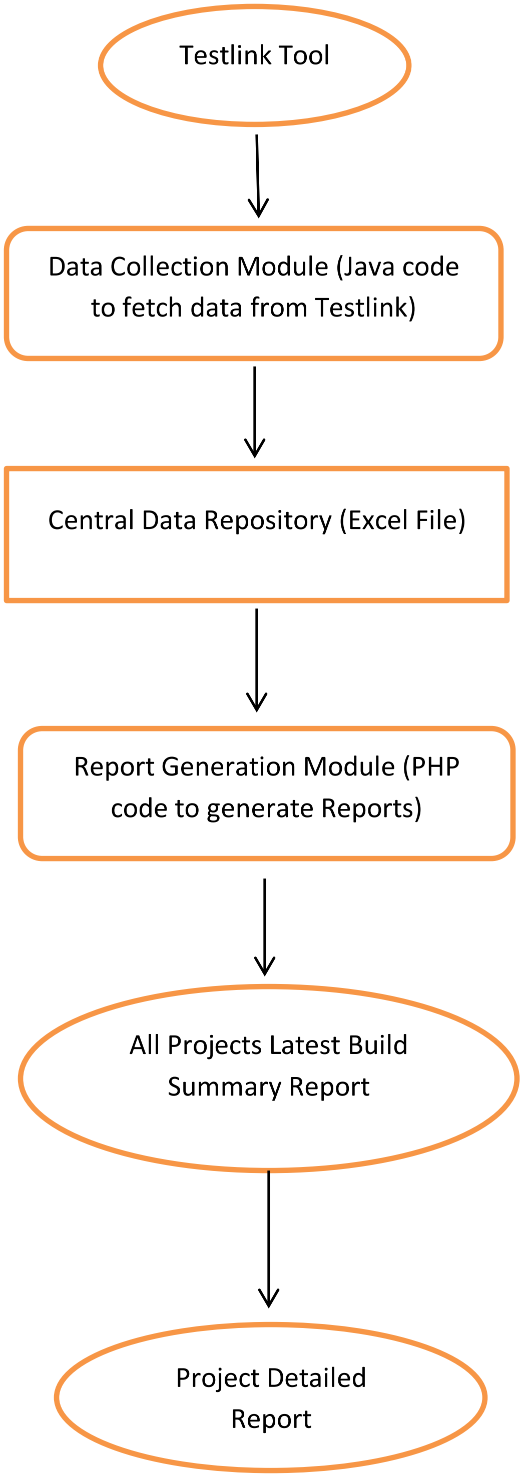
3.3. Store Data locally in Flat file(s) or Database from various tools (presently storing data in flat files)

3.4. Generate reports on integrated data



Dashboard Report Project Flow

4. Testlink Module Flow:


Testlink Tool
Data Collection Module (Java code to fetch data from Testlink)
Central Data Repository (Excel File)
Report Generation Module (PHP code to generate Reports)
All Projects Latest Build Summary Report
Project Detailed Report

Testlink Module Flow

4.1.Data Collection Phase (Java Code):

4.1.1. **testLinkAPIImplementation** class calls **latestBuild() ,** to fetches latest build information from the **Testlink** for all projects in the tool

4.1.2. Writes the data into the excel file, location of the excel file could be configured from the **sourcBuildExcel** variable present in the **latestBuild** class

4.1.3. Then **testLinkAPIImplementation** class calls **allProjectSummay(),** to fetches latest build information from the **Testlink** for all projects in the tool

4.1.4. Writes the data into the excel file for each project in Testlink, location of the excel file could be configured from the **allProjectsExcel** variable; file name should be same as project name only folder path could be configured. One file is generated corresponding to the one project in the Testlink in this step

4.2.Report Generation Phase (PHP Code):

4.2.1. **latestSummaryTestLink.php** reads excel file with data from previous step, and generates report for the latest build of all projects. File path could be configured by **$excelFilePath** variable.

4.2.2. Report provides link to the project wise summary reports, on clicking on any project in reports generated in previous step

4.2.3. On clicking on project, projectDetailedData.php **reads** the file with same name as of project. File path can be configured by **$excelFilePath** variable

4.2.4. Google graph API is being used to plot graphs