

THE AUTOMATION GHANA GROUP

JONATHAN PRINCE NKANSAH

ANDROID APP FOR PROJECT WBS REPORTING | [Executive Summary](#)

WEB PORTAL

A [portal](#) is a web-based platform that collects information from different sources into a single user interface and presents users with the most relevant information for their context. The quality of a portal can be distinguished into three facets: integration, consistency and personalisation.

[Integration](#) capabilities allow to the unity of systems and data on the back end. Whereas [consistency](#) across digital touchpoints gives the united systems a shared look and feel on the front end. [Personalisation](#) through a combination of biographical data (who they are) and behavioral data (what they did on the site), contextualises experiences.

Android and iOS [compatibility](#) is another facet that arises with mobile app development. iOS is a closed system whereas Android is more open. A popular solution to this is resorting to cross-platform application tools. Otherwise, Java should be used for developing android apps and Swift for iOS.

OBJECTIVES

- [Backend Portal](#) – developing software backend as repository for all telemetered data and project WBS from site to project administrator.
- [Web-based management](#) – development should allow remote access on the web.
- [Android, iOS and Windows compatibility](#) – development should exist for Android, iOS and Windows.
- [Notification Status](#) – development should feature a centralised access to information from site.
- [Report](#) – product should as serve portal for communicating reports from site to project administrators.

DELIVERABLES

PROGRESS REPORT

- Providing updates towards the completion of the project.

PROJECT PROTOTYPE

- Providing a working prototype implementation of the project.

USER MANUAL

- Documenting technical assistance to operating the prototype.

As well as:

- A backend portal for the app (field service app).
- Providing various reports including running projects, personnel activities and man hours.
- Providing a mobile app that runs on android, IOS and windows.
- Providing notification system for assigned tasks and feedback.
- Providing a demo of the solution.
- Providing a user manual.

ECONOMIC ADVANATAGE

This project aims at:

- [Enhancing remote supervision](#), hence, limiting burden on fuel and transportation cost for site supervision; and
- [Monitoring and optimising the labour-force](#) required on site, consequent to cost reductions.

PRODUCTIVITY

This project aims at:

- Effecting a [flexible administrator-site communication](#).
- [Rendering easy access to staff and project data](#), for auditing purposes.
- [Optimising work schedules](#); and
- [Deciding critical and non-critical tasks](#) with the goal of preventing time-frame problems.