MARBLE HACKATHON PROBLEM SET
GOAL, OBJECTIVES AND REQUIREMENTS

INTRODUCTION

A feature-rich application is needed to allow for easy processing and understanding of election information. With this in mind, the Marble application having already streamlined the delivery ofelection information to citizens, needs a set of features that aid in easy visualization, communication, navigation, etc. of election data. This will make it a well-rounded tool that can be relied on

This document presents the platforms the application needs to be build for, the key features and functionalities, and the non-functional requirements to be considered and incorporated into the application.

PROBLEM SET/CHALLENGE

Participants are tasked with improving the existing features and developing new ones to help achieve the outlined goal and objectives of the project.

GOAL AND OBJECTIVES

The Goal of this hackathon is to further develop and improve on the Marble application to facilitate better information deliver thus better election reporting. The objectives are as follows:

1. Develop Marble for the iOS and Android platform.
2. Develop a well-designed, bespoke backend dashboard for Marble.
3. Better app theming: logos, colors, icons etc. (UI/UX)

FEATURES AND FUNCTIONALITIES

- Live Election Results
- Election Information (Date, Candidate, Profiles, results)
- Constituencies
- Parties
- Polling Stations (users identify can identify their polling station using a unique code on their voters' card)

- Schedules: the application should include official election calendar
- How to Guides: Information on how to vote, generally, and per the new voting system.
- Navigation to polling stations in a map view.
- Stats dashboard for the application's data.
- Comprehensive political party information, including their manifesto.
- Push Notifications for up-to-date alerts.
- More customization ability to modify application preferences/settings.
- Setup an FAQ form through which people can ask questions relating to elections.
- Registration verification form.
- A virtual 'I Voted Sticker' for vote celebration.
- Comprehensive information about the IEC.
- Comprehensive info about Gambia Participates and the Marble project.
- And any other features that developers can think to add.

NON-FUNCTIONAL REQUIREMENTS
- Fast and intuitive user interface.
- Ability to view information offline
- Low data usage
- Scalable