# KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY



# SOFTWARE REQUIREMENT SPECIFICATION (SRS)

# BY GROUP 6 (SOFTECH)

# Software Requirement Specifications

## Purpose:

*Number Man* is an android application (2D game) which helps individuals to sharpen their logic skills. The game is solely for checking efficiency not accuracy. It does this through the use of simple mathematical operations.

## Scope:

There is only one user.

Using Google play server users will have their profiles stored and will be allowed to check their progress with other users.

## Abbreviations, Acronyms, Definitions

NM

Number man: The main character

## Tools Used

*Game engine:* Unity – is a cross-plate form game engine developed by Unity Technologies and used to develop video games for PC, consoles, mobile devices and websites.

*IDE:* Visual basic

*Language:* C-Sharp

*Design:* Adobe Photoshop, Adobe Flash, Adobe Illustrator

## References

- IEEE standard by 830 – 1993
- Youtube.com
- Wikipedia – www.wikipedia.com

## Technologies to be used

- Google play services
- Android SDK

## Overview

*Existing system:*

- Registration for users

*Drawbacks:*

- Only on android platforms.

*Proposed systems:*

- Cross-platform

*Our Plan:*

- Improve performance through updates
- Add more achievements
- Add other types of operation such as subtraction, multiplication and division.

# Overall Description

## Software Interface

Android OS

*Minimum requirement:*

Android 4.0 "ice cream sandwich" (API Level 14)

*Recommendation:*

Marshmallow (API Level 23)

## Hardware Interface

*Minimum requirement:*

RAM = 512MB

Processor = Qualcomm – 1GHz dual-core, [mediatek@1.2GHz](mediatek@1.2GHz) dual-core

GPU = Adreno 230, Mali, power VR

*Recommendation:*

Qualcomm 2.46GHz quad-core

Clock Speed 300 MHz – 2.46 GHz

## Communication Interface

Graphic User Interface (GUI)

## Constraints

- GUI is only in English
- Optional Login

## Operations

You can save and retrieve your progress.

## User characteristics

Everyone (3+)

## Assumptions and dependencies

Future version shall operate on iOS

## Software system attributes

*Reliability:*

Minimal system crashes.

*Maintainability:*

Regular bug fixes.