

INVESTIGATING THE APPLICABILITY OF SESSION INITIATION PROTOCOL BASED INSTANT MESSAGING APPLICATION ON MOBILE PHONE

By

POROYE A.O. [2561906]

Supervised by

William D. (Bill) Tucker & Prof. Isabella M. Venter



INTRODUCTION

What it is to be done?

How it is going to be done?

User Requirement Document

I. Problem as seen by Users

- I. Similar tasks done on a desktop be easy to do on mobile
- II. Requires friendly, easy to use, easy to learn, and well done media formatting.

II. A description of the problem domain

- I. Porting an IM application onto mobile.
- II. Rendering an uncomplicated, simple but elegant GUI

III. what should be expected of Software

A basic IM apps ported onto a mobile handset given it some similar features

IV. What should not be expected

Providing new set of functionalities, going beyond that basic smartphones features.

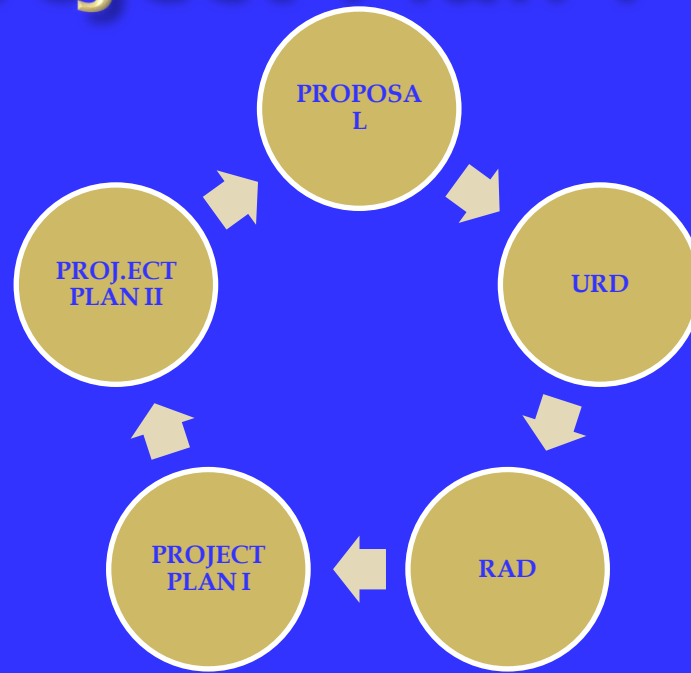
Requirement Analysis Document Part A

- Technical perspective of problem
 - Interoperability, portability, platform independence & open source
- Constituent parts of problem
 - The radio bandwidth, memory size, media formats available, screen output, keypad based input, buffering of information, others include Central Processing Unit(CPU) performance, power from battery, connectivity and security.
- Analysis and identification of details

Requirement Analysis Document Part B

- ❑ Existing & Alternative technical solutions
 - ❑ A browser based application requiring no download, nor technical support by cellular operator for enabling connection to their IM services over the internet.
- ❑ Possible method of approach
 - ❑ Android from Google: open source, interoperability, cost e.t.c.
 - ❑ Bluetooth connectivity: browser based no downloads and other hassles
 - ❑ 3GPP & 3GPP 2 devices: standards that provides uniform delivery of rich multimedia & handles media formatting quality.
- ❑ User testing ways
 - ❑ In between waterfall & incremental model will be used.
 - ❑ Prototyping for validation & verification purposes.
 - ❑ Conducting frequent controlled experiments involving users

Project Plan I



- ❑ What has been done up until this point
 - User Requirement Document
 - Requirement Analysis Document
 - A project Plan

Project Plan II

- The next phase
 - We will develop a prototype
 - Carry out user testing
 - Provide a working Application
 - User and technical documentation
 - Debugging and final phase test
 - Deployment
- Summary