

Web-Based Instant Messaging

Charles Atuchukwu

Supervisor: Dr. W. Tucker

Co-Supervisor: Mr. M. Norman

3rd November 2009



UNIVERSITY *of the*
WESTERN CAPE

A place of quality, a place to grow, from hope to action through knowledge

Introduction

- ❖ Instant messaging (IM).
- ❖ Web-based Instant Messaging.
- ❖ Advantages of web-based IM.
 - Platform independent
 - No download, installation or configuration
 - No firewall problem

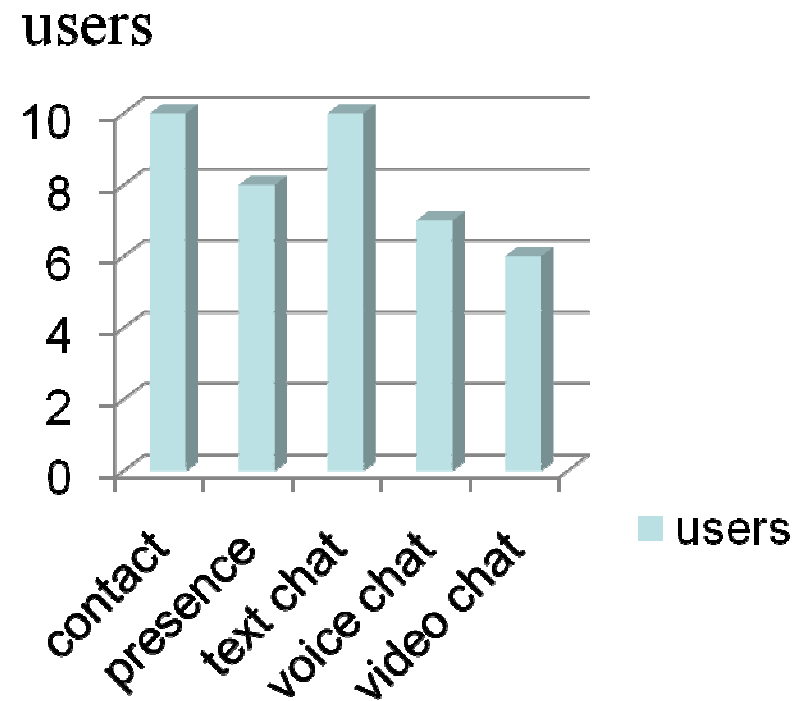


User Requirements & Analysis

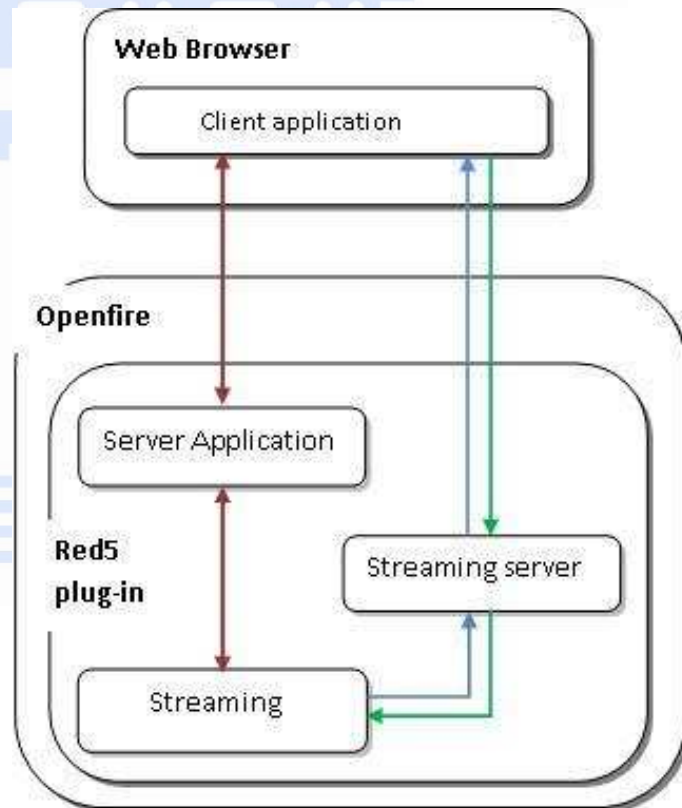
User requirements

- ❖ Contact list
- ❖ Presence awareness
- ❖ Text chat
- ❖ Voice chat
- ❖ Voice chat

Requirement analysis



Design & implementation



❖ Installation, setup, and configuration of computing infrastructure.

- Openfire server
- Red5 plug-in
- MySQL



Test strategies

❖ Validation tests

❖ Portability tests

❖ System tests

➤ Performance tests

➤ Stress tests

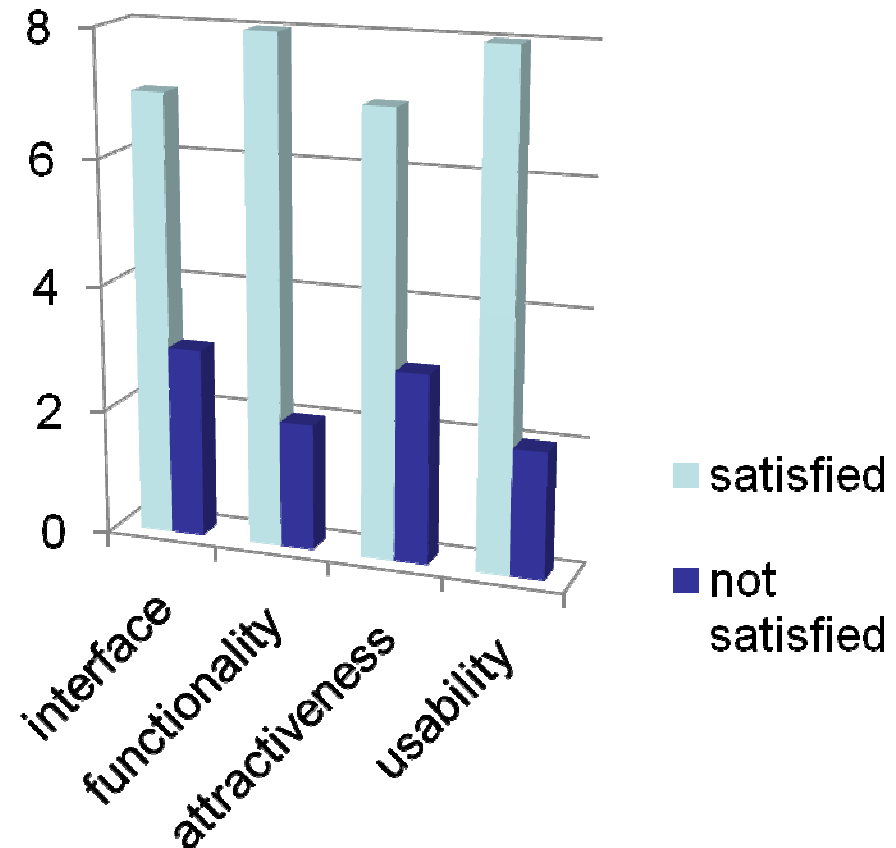


Validation tests

❖ Questionnaire

- Ten users
- Three background questions
- Nine open and close ended questions.
- Two scenarios

❖ Different locations on campus



Portability tests

Tests

- ❖ The system was tested on
 - different browsers (internet explorer, Mozilla Firefox and safari)
 - operating systems (windows, Linux, and Mac)
 - architecture (Intel and Mac)
- ❖ To determine its portability



Results

- ❖ Browsers
 - Different results
 - flash player
- ❖ Operating systems
 - Works very well
- ❖ Platform
 - works very well

System tests

- ❖ Performance tests

- ❖ Stress tests

- ❖ Tool

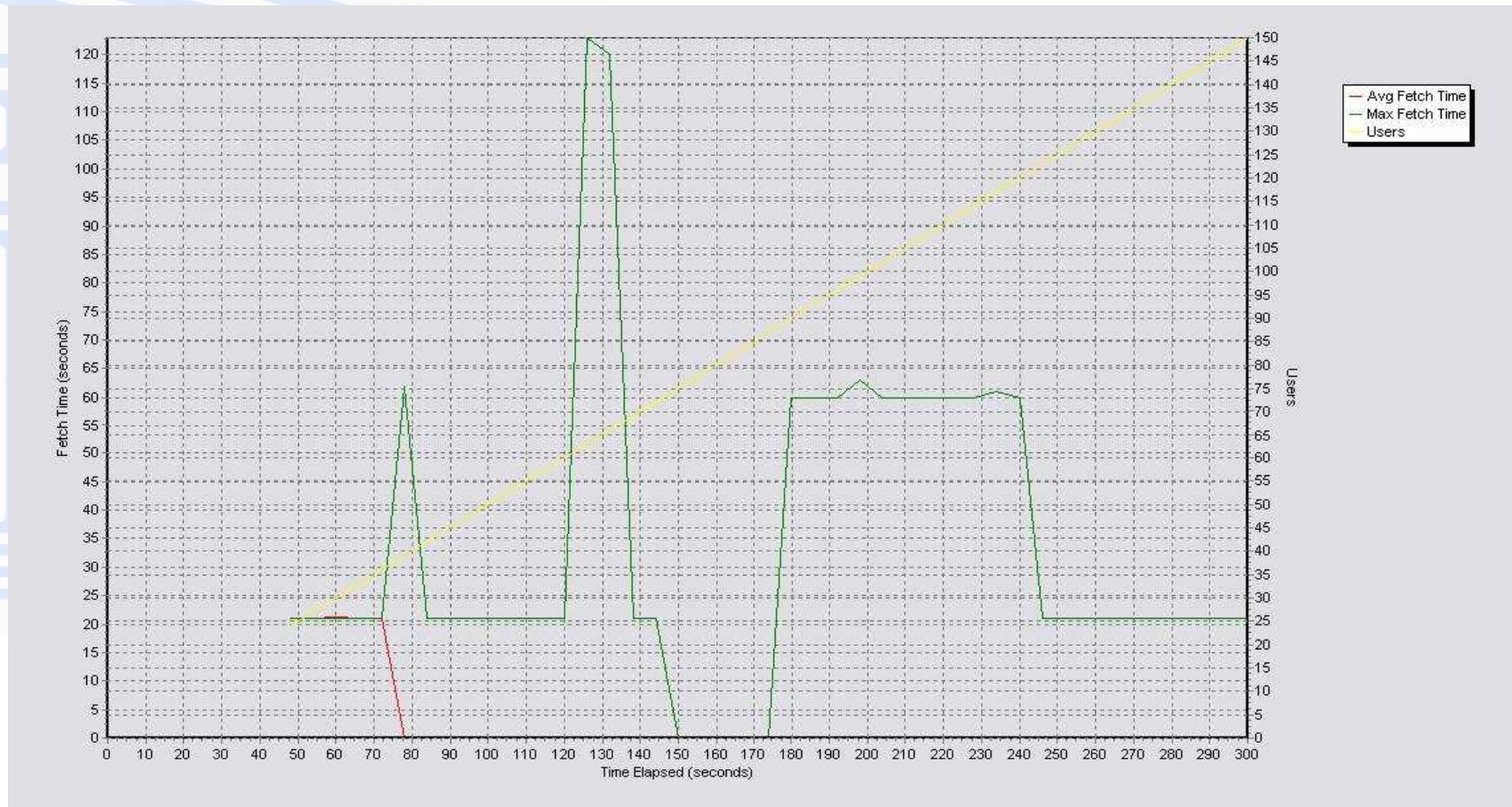
 - Dieseltest

 - 10,000 users

 - 5 minutes



System tests contd.



Demo

- ❖ Text chat
- ❖ Voice chat
- ❖ Video chat





Q & A

