



SRS Of Whatsapp for students

Computer Science (National University of Sciences and Technology)

Software Requirements Specification For



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Introduction

Purpose

This report depicts in considerable detail, the computer program prerequisites of WhatsApp, a web moment informing application. This report will portray the issues WhatsApp extraordinary to address, the useful prerequisites and non-functional necessities of the proposed system..

Intended Audience and Reading Suggestions

This report is planning for the stakeholders of the application, to help within the advancement prepare of WhatsApp as well as to serve a reference to clarify any future issues that the stakeholders may run into.

Definitions, abbreviations

- **Account**

User must have a device in order to run the Application. Like, on Android, IOS, Blackberry, Windows or Symbian. User Account is connected to the contact data he gave amid the initialization of the application. User can be contact only with that information.

- **Last Seen, Profile Picture, Status, Receipts**

- WhatsApp Allows User To Upload an image as a profile picture as his identity
- Last seen shows the last point in time when the user was using the application.
- Online Tag Shows That User is using The app at the Moment
- Status Show the written statement What He Want Flex according To His mood depending in the usage to all his recipients.
- Receipts show that the message sent to the targeted recipient.
- Single receipt means that the message has been sent but the Internet Connection on To the Other End Is Not Stable. ..
- Double receipt Means that the message has been received By Other End
- .Blue colored receipt Means that the recipient has read the message.

- **Network Usage**

In arrange to appreciate consistent advantage of WhatsApp, User is assumed to be associated to Web at any given point of time. WhatsApp employments impressively lesser organize assets than any other chatting application accessible within the showcase. WhatsApp moreover gives the client with the choice to restrain assets to approaching media.

- **Recipient**

WhatsApp can be utilized to talk with more than a single client at any given point of time. The Recipient must have the app To receive message.

- **Group**

A Gather of clients extending from 1-256 can be included into a bunch and can be speaked with at the same time. Any bunch client can include modern individuals into the gather not surpassing 150. As it were the Gather Admin has the official consents to evacuate a part of the bunch. Bunch admin can too give other individuals of the gather with Admin permissions.

- **Privacy**

Whatsapp gives consistent ways to spare the user's security. The user can choose which data is accessible for other users to see and which data isn't. Data like last seen, Profile Picture, Status can be put out for seeing to everybody or as it were to contacts or no one.

- **Backup**

An Encrypted Backup of all the conversations is saved in Internal Memory in case of device

WhatsApp maybe a restrictive, cross-platform, scrambled moment informing client for smartphones. It employments the Web to send content messages, archives, pictures, video, client area and sound messages to other clients utilizing standard cellular versatile numbers .As of February 2016, WhatsApp had a user base of one billion, making it the foremost well known informing application. WhatsApp Inc., based in Mountain See, California, Joined together States, was obtained by Facebook Inc. on February 19, 2014, for roughly US\$19.3 billion

Overall Description

Product Perspective

WhatsApp does not work autonomously. It works at the side the inner servers and sending and accepting application on either conclusion devices

Communication interface: WhatsApp communicates with the internal servers via a communication network.

Software interface: The messages sent through the communication Network are particular to the target Recipient. At any point, two known users will take an interest in the application..

Hardware interface: The software will run on any device running on iOS, Android, Symbian, BlackBerry operating systems.

User interfaces: The GUI of the Application is user friendly and need no external assistance to understand the application.

Customer: The customer user interface should be intuitive, such that 99.9% of all new WhatsApp users are able to use the Application without any assistance.

Message Processing: Every message send through the application is processed by the internal servers and sent to the recipient. Message processing is done at very high processing rates so as to avoid delay in the conversations between the users. A maximum of 27 billion messages are processed in a single day by WhatsApp internal servers.

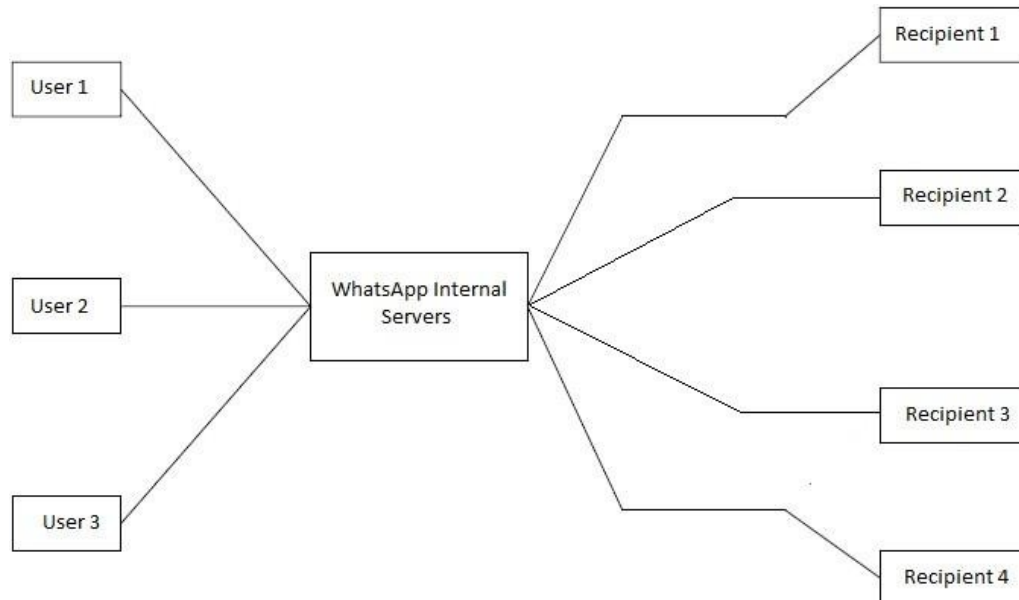


Figure: WhatsApp Network

User Classes and Characteristics

Characteristics: There are several users of the WhatsApp network:

Customers are simple members of the general public with no special training.

Operating Environment

- The hardware, software and technology used should have following specifications:
Ability to run the Latest Version of Application.
- Ability to use Network
resources Touch screen for
convenience Keypad (in case
touchpad fails)
- Continuous power supply and network supply

Ability to connect to WhatsApp network Ability to
take input from user
Ability to validate user

Design and Implementation Constraints

Login

Validate User:

- Validate for User's Mobile Number by Verification SMS.
Check for any previous existing User Backups on the
device. If a Backup is available, prompt to "Restore
Backup",

Assumptions and Dependencies

- Hardware never fails
- Always connected to the Internet
Unlimited number of messages per
day
- Unlimited number of changes to profile per day

Application Analysis

Now a days the applications are accessible for informing but there's not a single application which can handle different things like informing, protection, area sharing, broadcasting, gather messages, record sharing etc...

User Side

- No covered Cost
- Multimedia :- (Send Video, Pictures, and Voice notes to your companions and contacts) Bunch Chat

- No need to Log In/Out
- No need to add Buddies
Record voice messages.
- Know when people have seen your messages. Status
Update
- As Open As SMS
- And Much More (Share location, Exchange contacts, Custom wallpaper, Email chat history, Broadcast messages)

Developer Side

Hardware Requirements (Recommended):

60 GB HD
Android Phone (optional) I-3
or above processor
2 GB RAM

Software Requirements:

Operating System: Windows XP or above, LINUX Software: Mobile
IDE Plugins
Development Tools: Android SDK
Database: SQLite

Minimum requirement API-13

● Feasibility Study

Technical Feasibility: Framework will work on android portable or tablet which needs android 2.1 and up form. Simple to create application utilizing open source

Economic Feasibility: This application is created utilizing open source program. So, there are not any issues related to improvement devices. After develop this application, we'll put it on Google play which is additionally an open source so client can effectively download.

Operational Feasibility: The framework will be GUI based so the client will effectively get it and no require for preparing. The framework will donate quick reaction. It's a quicker way to communicate.

- **Other Requirements**

Data Base

The Application must be able to use several data formats according to the data formats that are provided by the data bases. A transaction should have all the properties of a data base transaction (Atomicity, Consistency, Isolation, and Durability).