جامعة الأمير
سطام بن عبدالعزيز
PRINCE SATTAM BIN ABDULAZIZ UNIVERSITY

WhatsApp

Softweare Engineering
Project

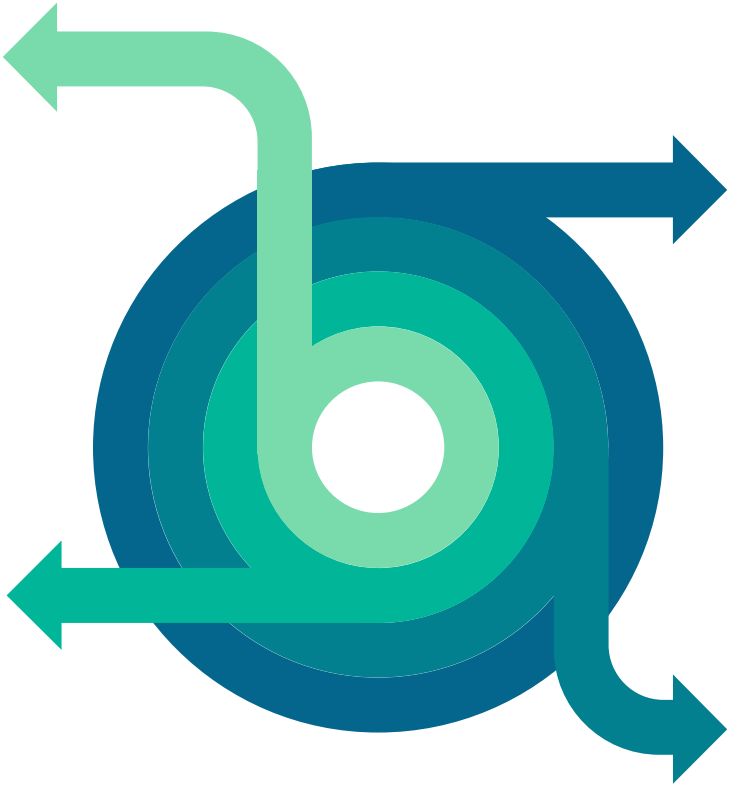
Introduction

WhatsApp is a free and cross-platform messaging app that allows you to make voice and video calls, send text messages, and share photos and documents with others. It is available on iOS, Android, Windows phone, and web. WhatsApp is one of the most popular messaging apps in the world, with over 2 billion active users.

problem and Proposed solution

Expensive SMS fees

WhatsApp offers unlimited messaging and calls over an internet connection.



Slow transmission

Ifeatures allow for faster sending of the message.

Device incompatibility

Davailable on wibe range of devices such as iOS,Android,Windows,web .

group chat

feature allows users to chat with multiple people at the sem time

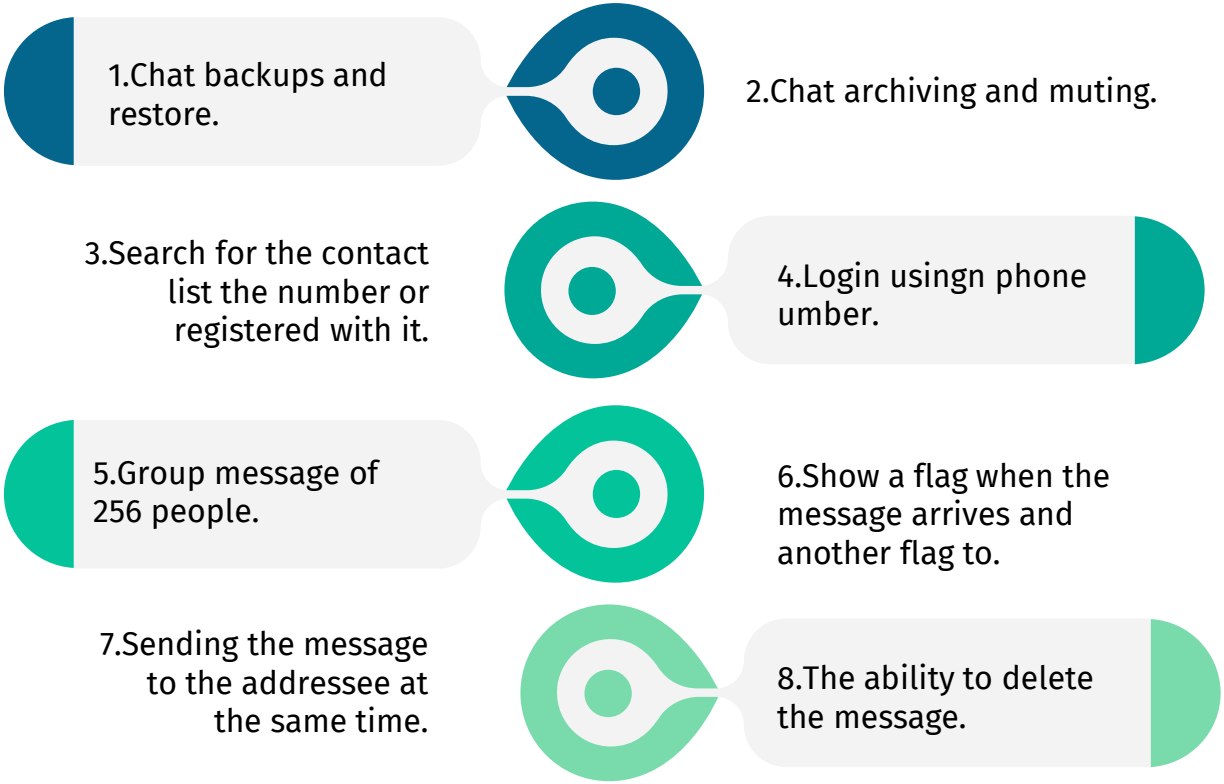
Background

The WhatsApp application was launched in 2009 and was purchased from Facebook for 19 billion.

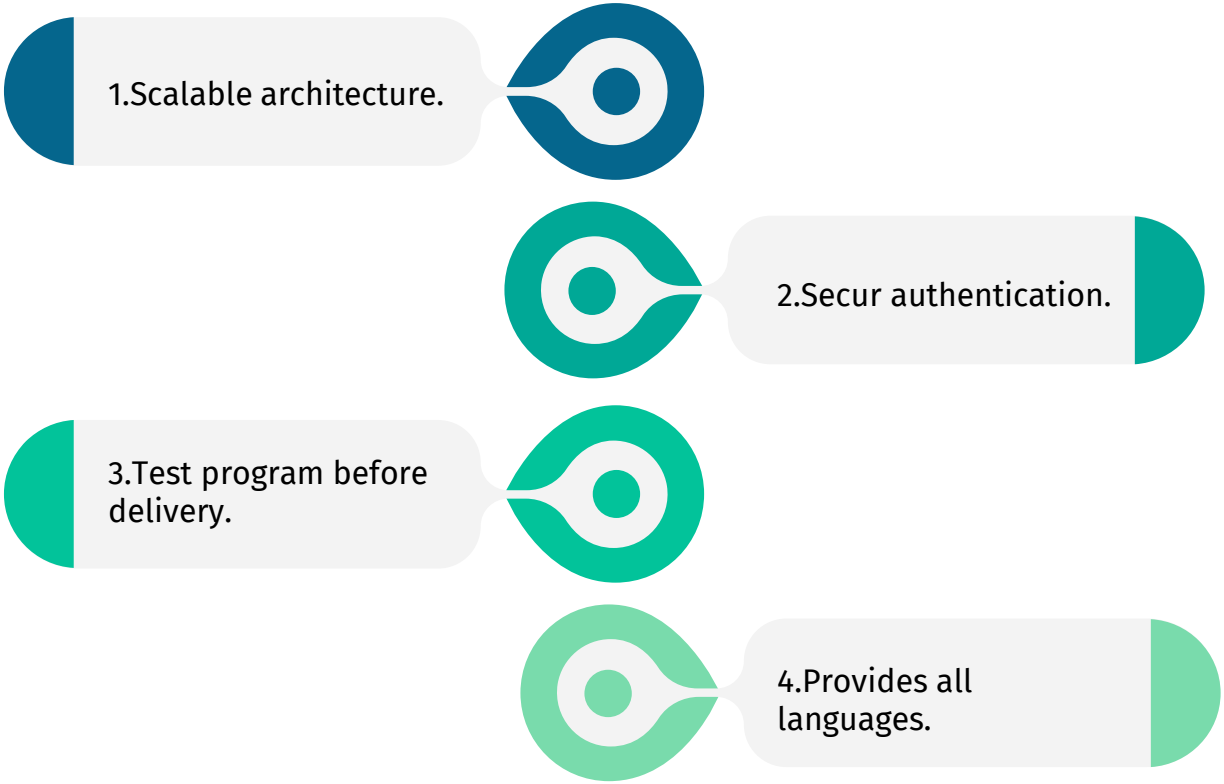
Work plan

Iwaterfall model for WhatsApp analysis, design, implementation, testing, and then publishing application to users.

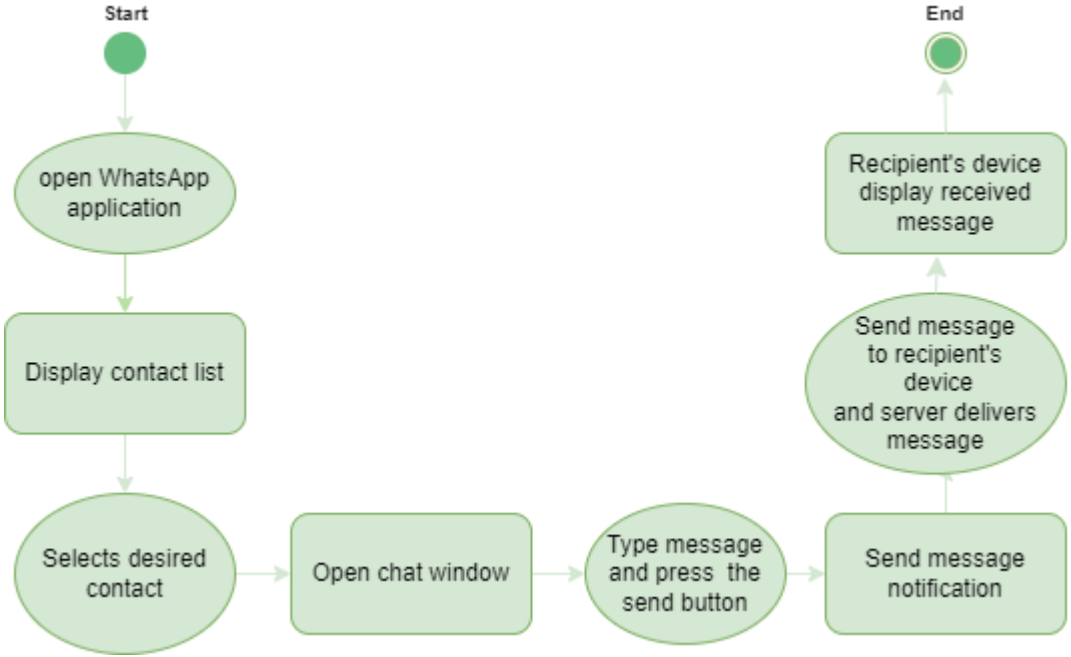
project Requirements: functional requirements



project Requirement: Non-Functional requirement



Activity diagram

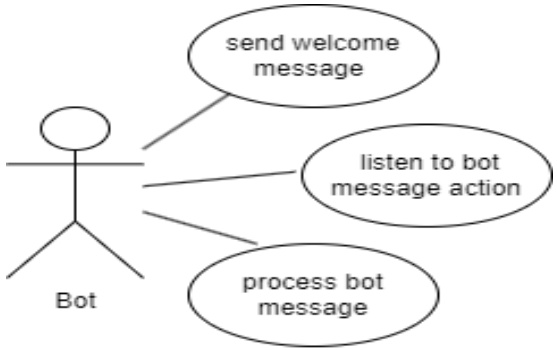


Actor

Actor	Roles
User	Create/edit/save/update/hide/ browse profile – add/ delete/find user - create group - find chat - find/view/send/ forward media - send/view/forward message - send/view/find/ forward document - send/view/ forward location - find/update/view status - send complain - set welcome message- set option bot message- set action bot message
bot	Send welcome message – Process bot message – listen to bot message
Admin	suspend user - recieve complain - suspend group

Actor

find/delete/add user
Create User Group
Send/find/forward media
Send Emoji
send compline
Chat with a contact
Send / find /forward document
send BroadCast Message
Send / forward location
User
Edit/save/create/hide/update browse/Profile
Profile Settings
Edit/find/update/browse Display Status
Manage Accounts
Privacy Setting
Change Number
Delete Account


send welcome message
listen to bot message action
process bot message
Bot

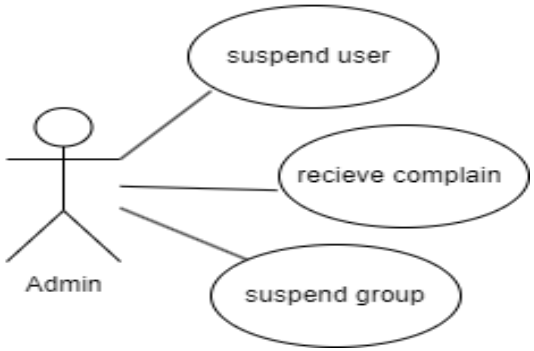

suspend user
recieve complain
suspend group
Admin

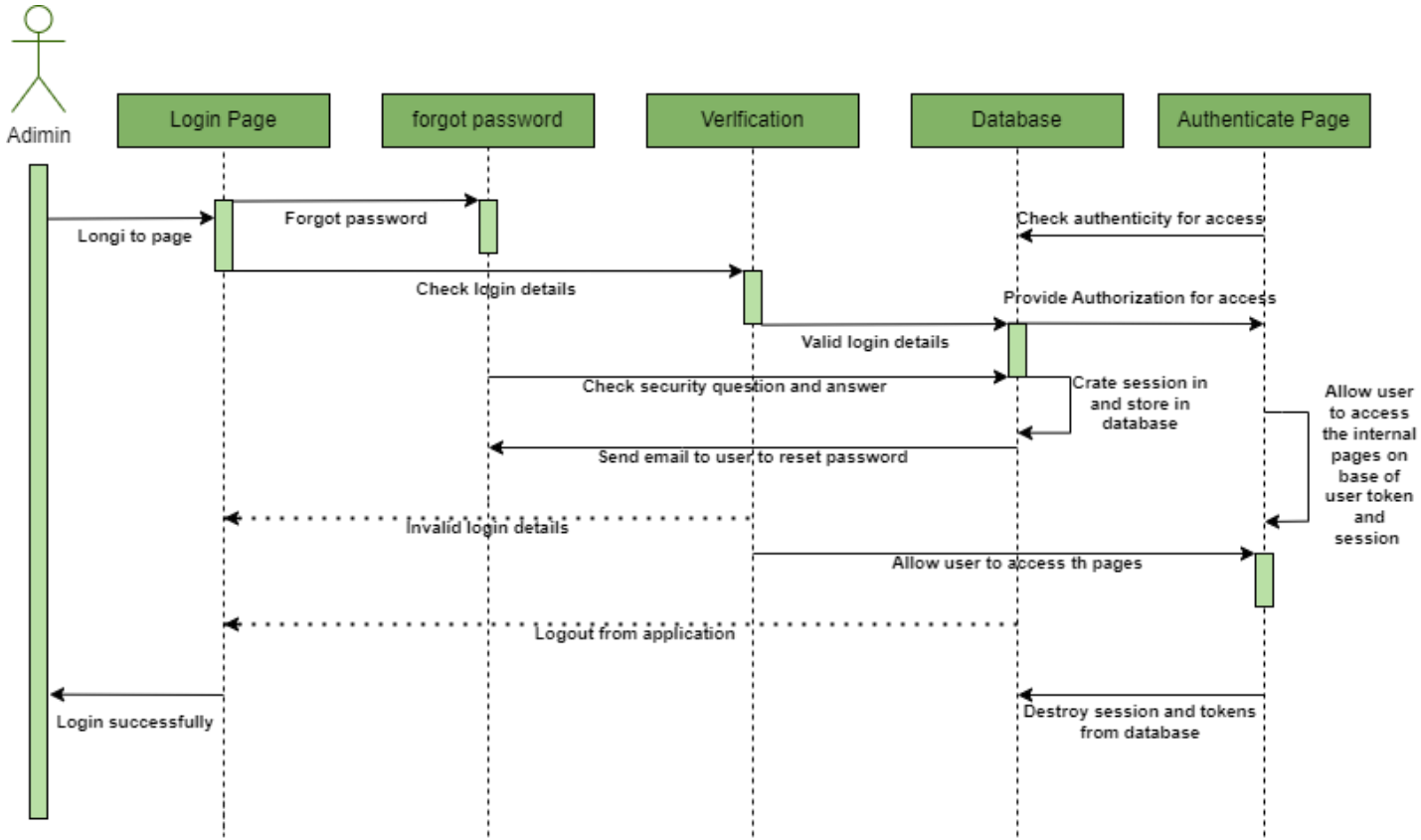
Table 1

Send Complain	
Actors	User, Admin
Description	The user sends a message to the admin to send a related complaint to another user to suspend his account
Data	Usre information, the complaint
Stimulus	User command to suspend Account
Response	Account suspension
Comments	The account will be suspended if the reports are real or numerous

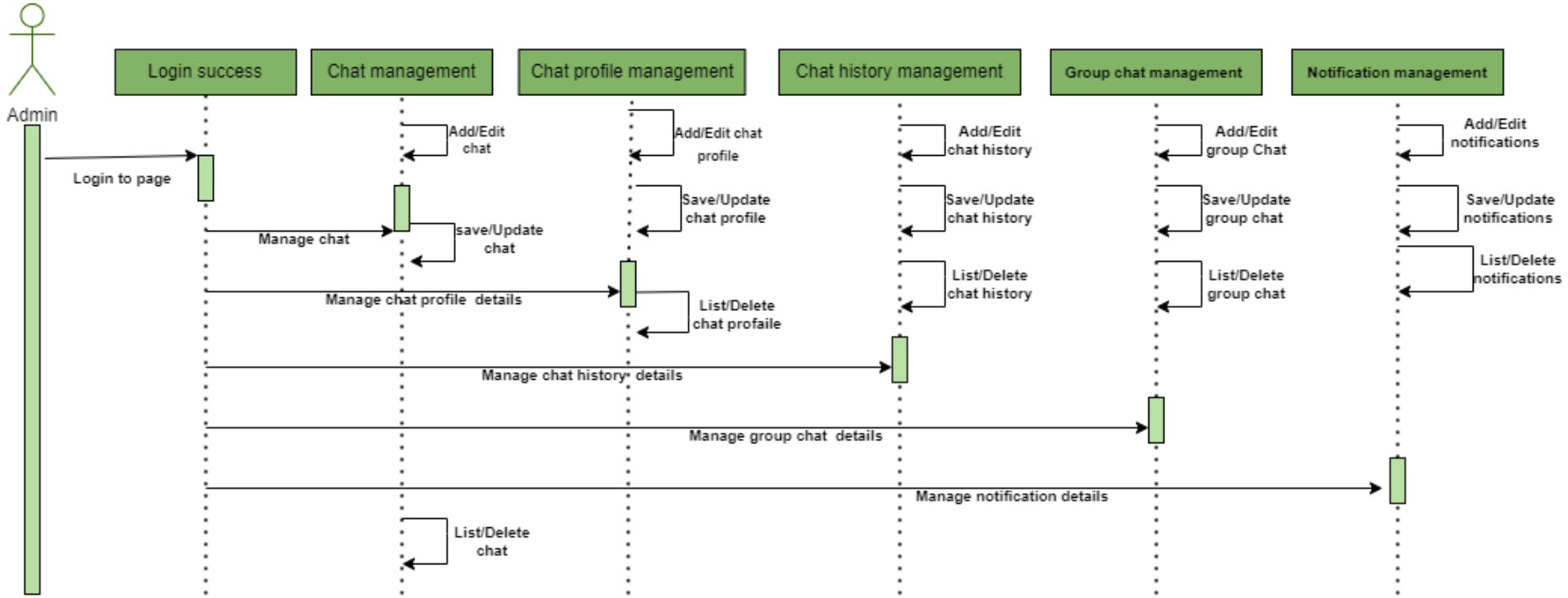
Table 2

Send Complain	
Actors	A user conversation with another user.
Description	A user sends conversations, media, files, location, and stickers to the other user.
Data	Pictures, videos, voice notes (media), and documents.
Stimulus	He wants to talk and have a conversation with the user.
Response	Sharing daily events and trending news

Sequence diagram



Sequence diagram



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