System Requirements

Version 1 – February 01,2022

Template Revision History

Version	Date	Name	Description
1.0		Vishruti Agrawal	
		HardikSinh Rajput	

Project Delivery Methodology (PDM)

System Requirements

[CHAT APPLICATION USING SOCKET PROGRAMMING]

VERSION: [1]   REVISION DATE: [01-02-2022]

Approval of the System Requirements indicates an understanding of the purpose and content described in this deliverable. By signing this deliverable, each individual agrees with the content contained in this deliverable.

Approver Name	Title	Signature	Date

Contents

Section 1   Purpose

The purpose of the System Requirements document is to specify the overall system requirements that will govern the development and implementation of the system. The document will also establish initial security, training, capacity and system architecture requirements, as well as, system acceptance criteria agreed upon be the project sponsor and key stakeholders.

Section 2   General System Requirements

2.1   Major System Capabilities

- Communication over a network is one field where this tool finds wide ranging application.Chat application establishes a connection between 2 or more systems connected over an intranet or ad-hoc. This tool can be used for large scale communication and conferencing.

2.2   Major System Conditions

Specify major system assumptions and/or constraints (aka conditions). The conditions may limit the options available to the designer/developer. For example:

- The GUI operates in forms.
- One form is for connected networks.
- System must make actual communication in the form of chat.

2.3   System Interfaces

The tool has been designed using PHP MYSQL & WEB SOCKETS.

2.4   Policy Requirements

⇒ Windows 7 or further version for php 7.2 or more

=> A php engine of version 5 included in xampp

=> Apache HTTP server

⇒64 bit X86 CPU

=>RAM 4 GB
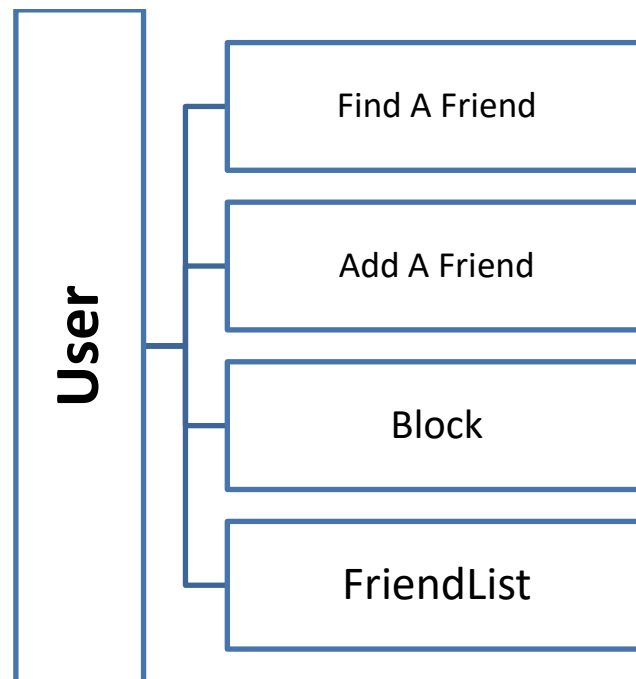
🞣 Organisation of Document

This chapter includes initiation of project where we analyze the project and required documents.
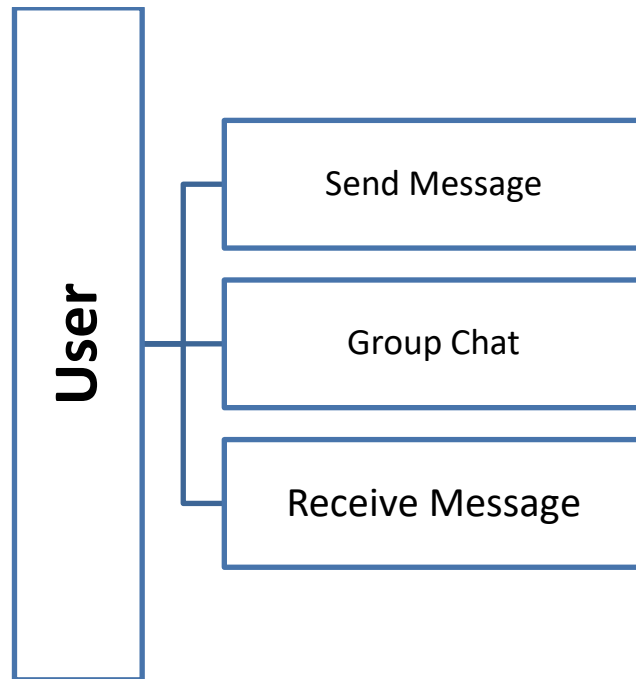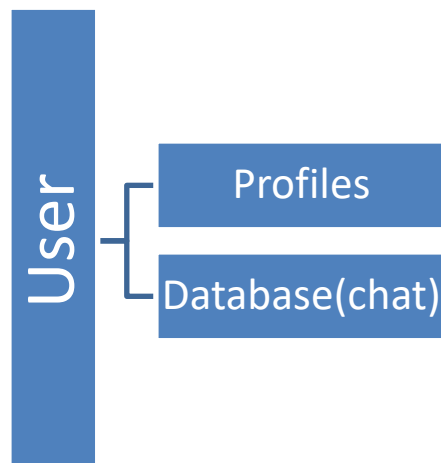
• **Functional Requirements**

This app must have privacy for users. Also app should have friend list, user should be able to clear the chat history,able to add friend and also able to contact maintainence team if requires.
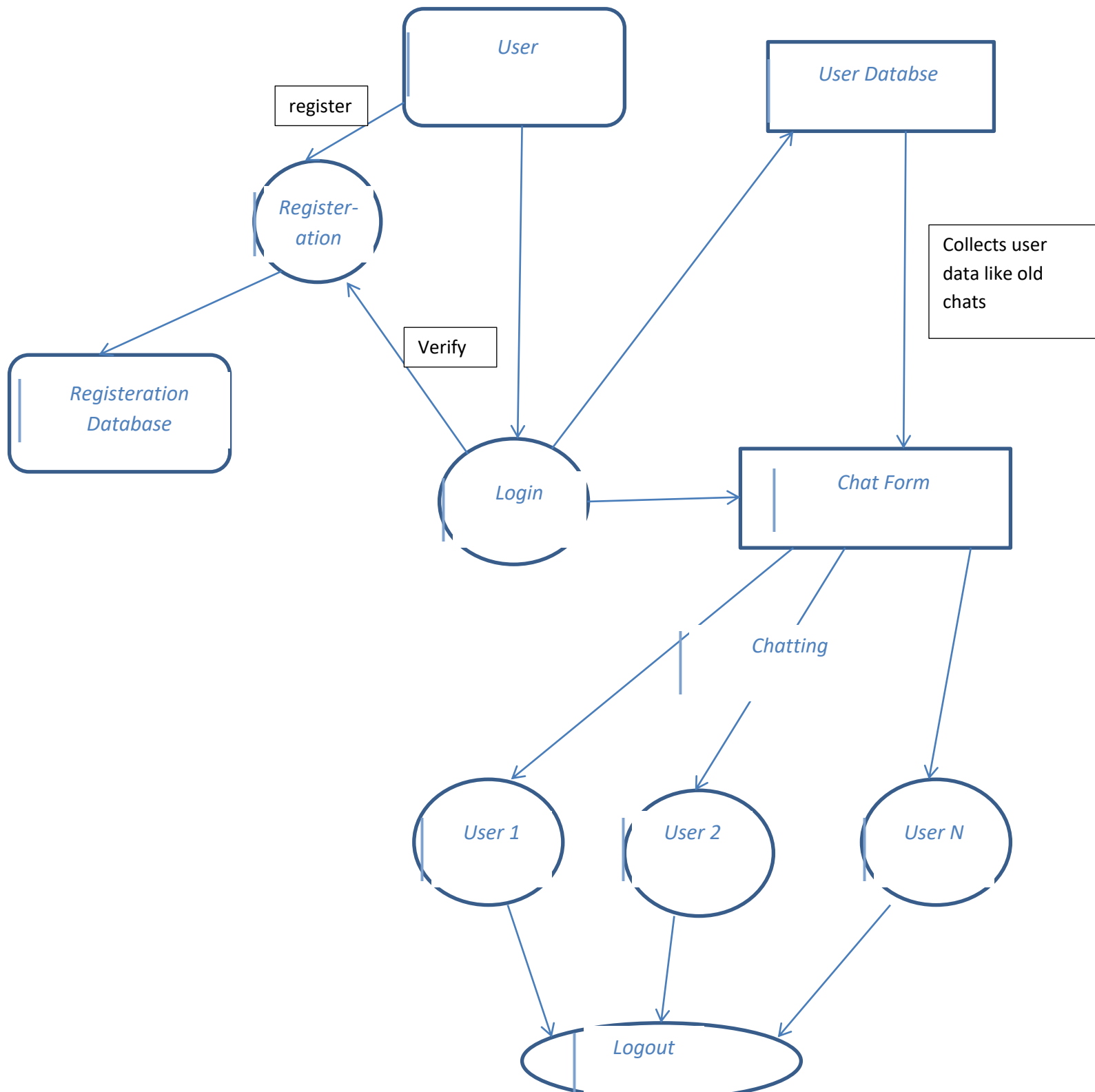

Section 3   System Architecture

3.1 Use Case for Contact

Use Case for Contact Display

PDM SyReq Ver 1|01/02/2022   Page 4 of 10

Use Case for Chat Room

Use Case for Chat Room

Use Case for Maintainence

3.2 Dataflow Daigram of Chat Application

User

User Databse

register

Register-
ation

Collects user
data like old
chats

Verify

Registeration
Database

Login

Chat Form

Chatting

User 1

User 2

User N

Logout

Section 4 Implementation

Tools & Technology
⇨ Topic oriented structure is provided below:

Software Analysis
⇨ Mind Map
⇨ Design Patterns
⇨ UML Techniques

Database Modelling Tools

⇨ MYSQL

Programming Languages:

⇨ HTML,CSS, PHP

Libraries:

⇨ Ratchat Library

IDE

=>VisualStudio Code

Version Control

=>Git/Github

Databases:

⇨ MYSQL

Web Design:

⇨ Bootstrap

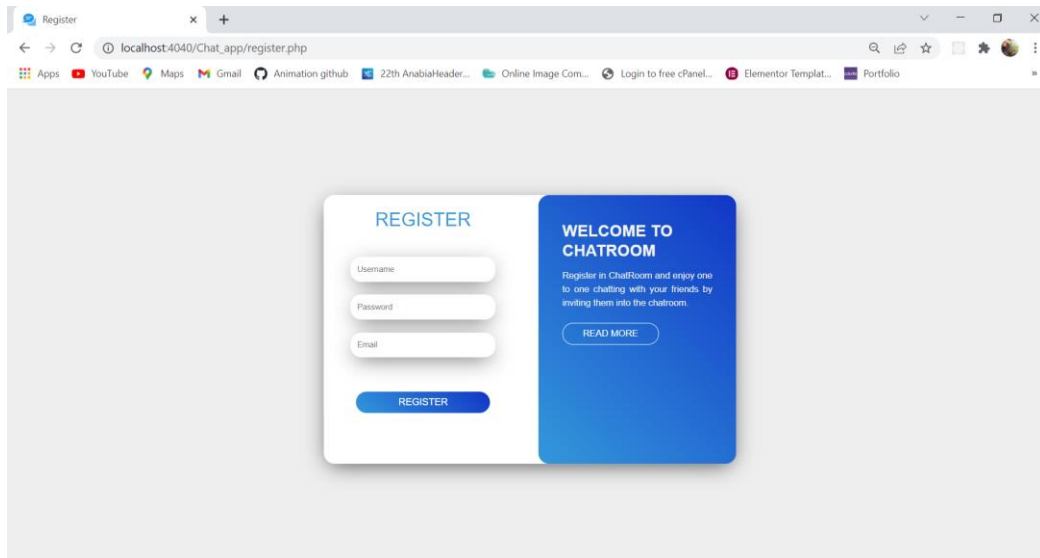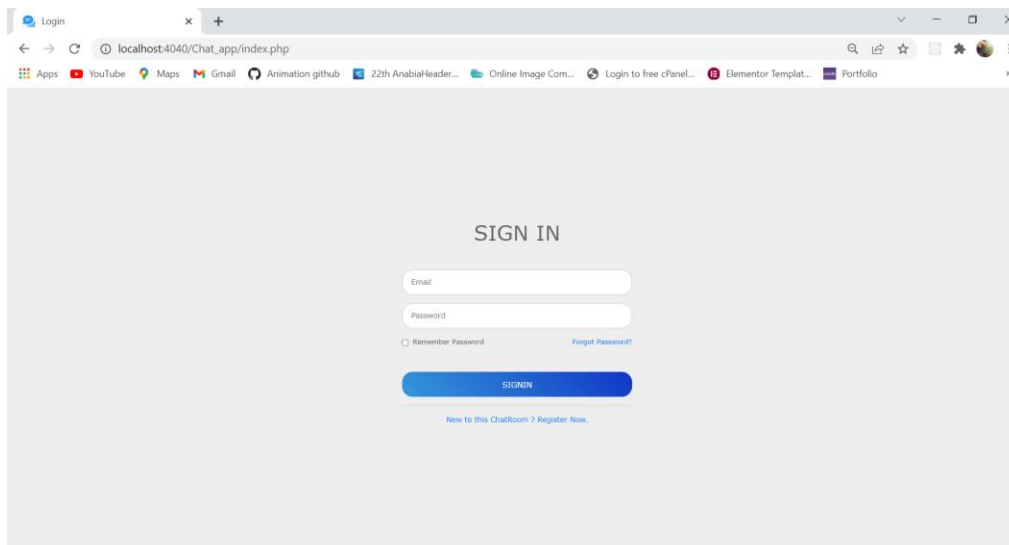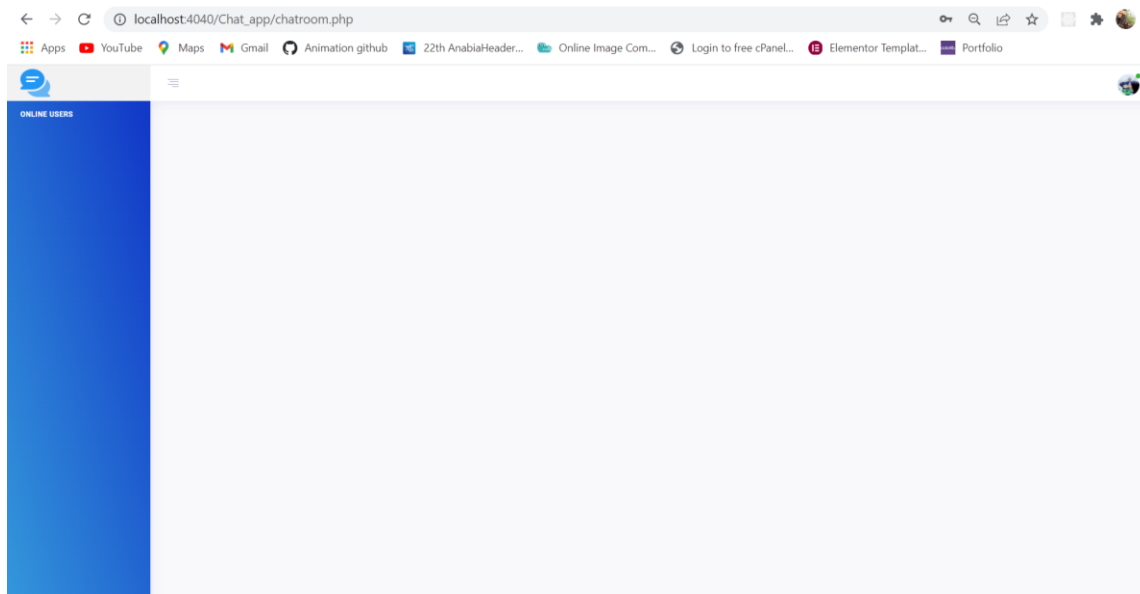
Section 5 GUI

⇨   Here going to paste the images/snapshots after every iteration of work which
includes login/signIn form, chatroom, add a friend, setting(profile).

Register:

Login:

ChatRoom:

Profile Settings :

Section 6   References

Document No.	Document Title	Date	Author
1	Project Purpose & Requirements	01-02-2022	Slideshare.net
2	Policy Requirements	01-02-2022	Google