

Software Design Document (SDD)

For

MicroSoft “WIT” Hackathon

Project: The Family App

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1.0 Introduction

The project entitled “The Family App” is about creating a Family web application for keeping your family commitments, responsibilities, and emotional connect going. This Application will create a virtual “joint family” which permits family conversation virtually. It ensures that you have full handle on the concentric circles of your family tree. It helps you to fulfil the commitment that you want to fulfil. The family appa across your family talk to each other and create family scenarios.

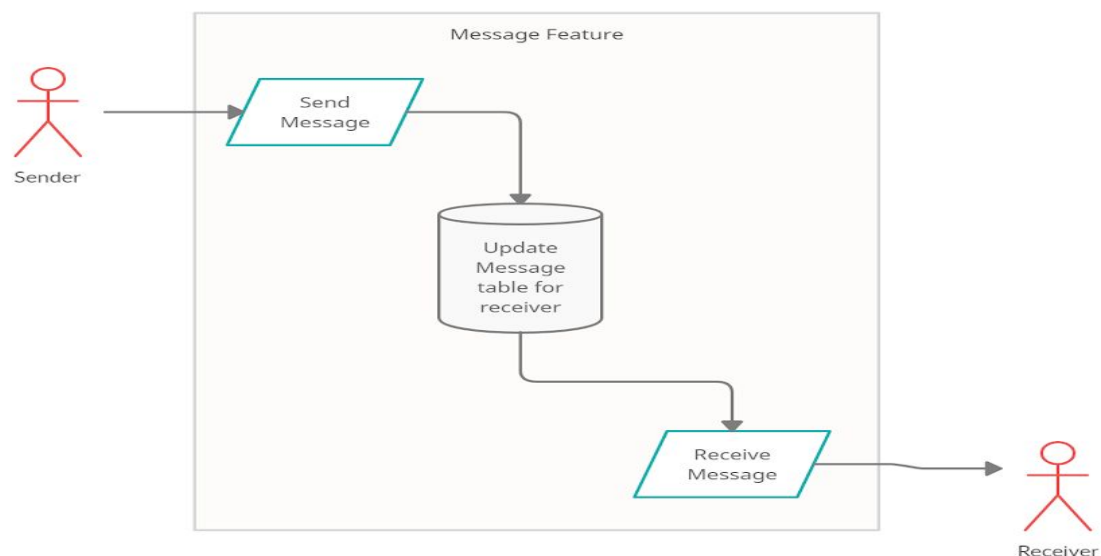
Technologies Used:

- **Programing Language:** HTML, CSS, PHP, Java-Script
- **Framework:** Bootstrap
- **Tools:** Microsoft Visual Studio
- **Database:** MySQL Database
- **Web Browser:** Microsoft Edge, Google Chrome, Mozilla Firefox, And Apple Safari.

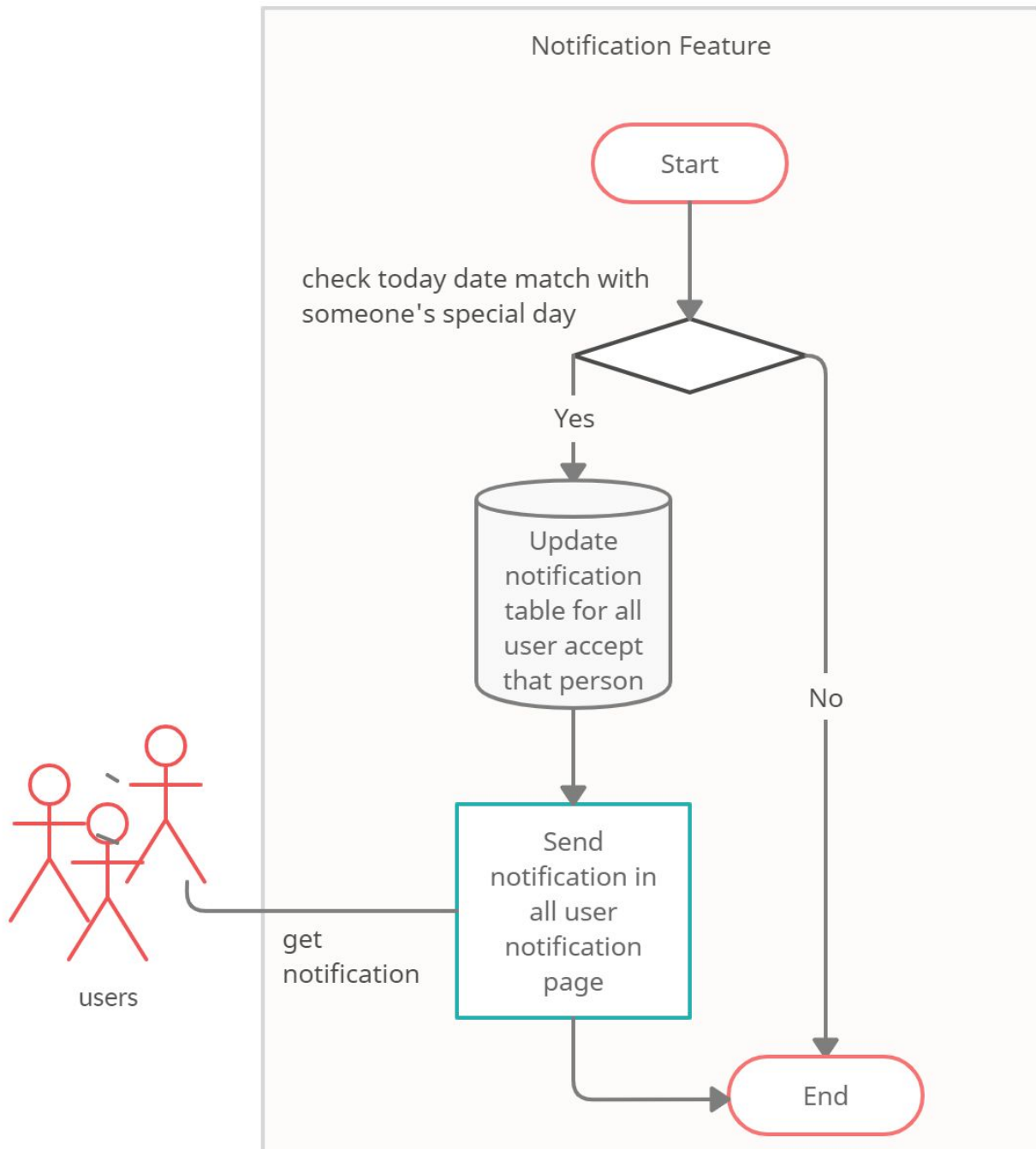
2.0 Functional Description

This project “The Family App” will provide following features:

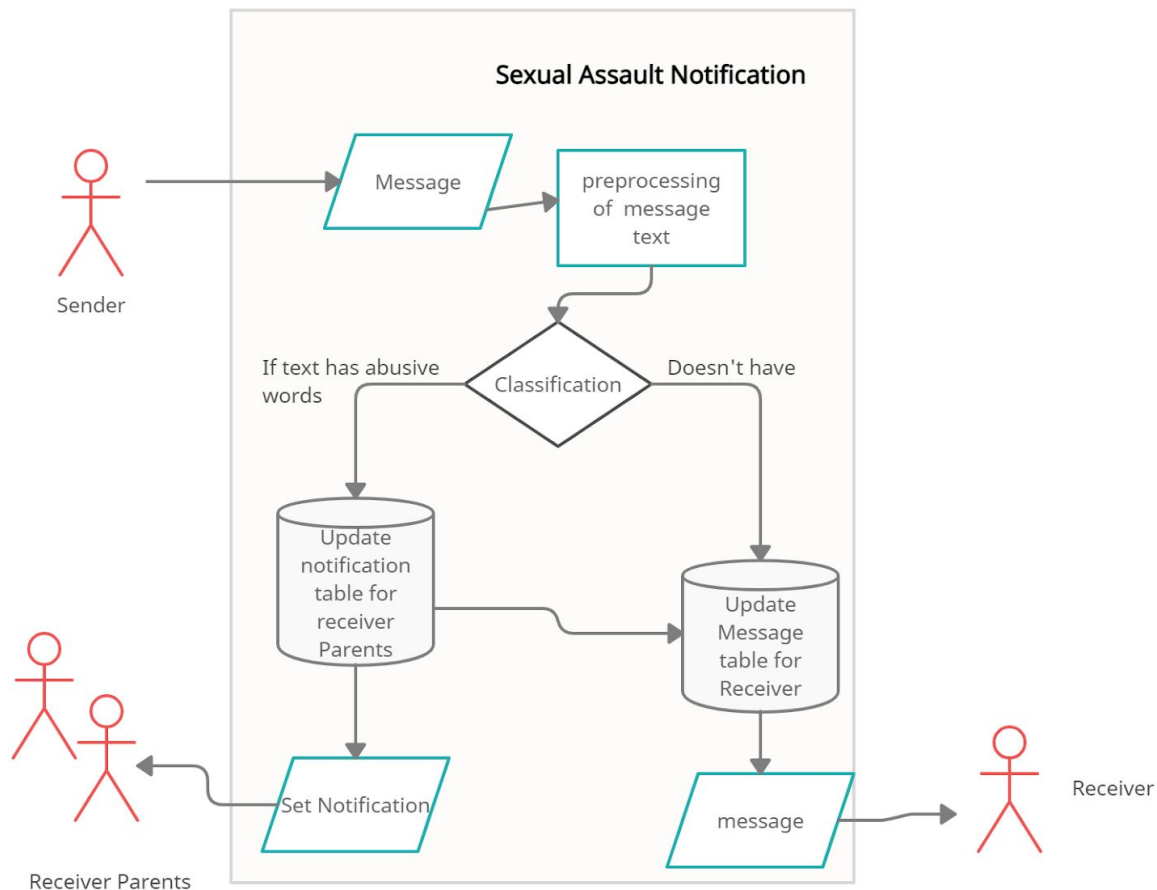
1. **Messaging System:** This application will be a platform where family members can make family conversations. They can make conversation individually or in groups.



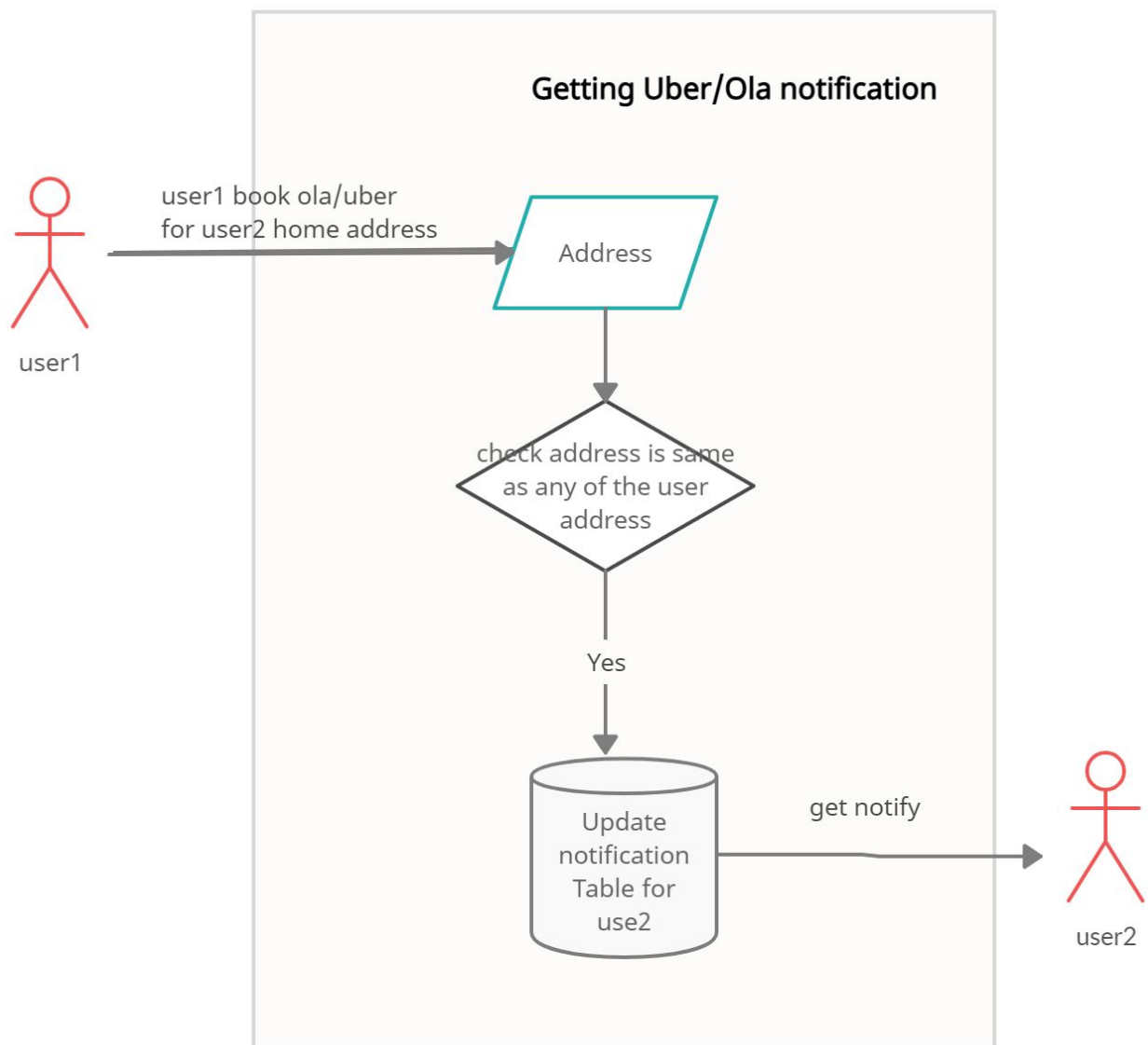
2. **Important Dates notification:** By this application family members available in this app will get the notification of the important date like (birthday and anniversary etc.) of their relative so that they don't need to remember important dates.



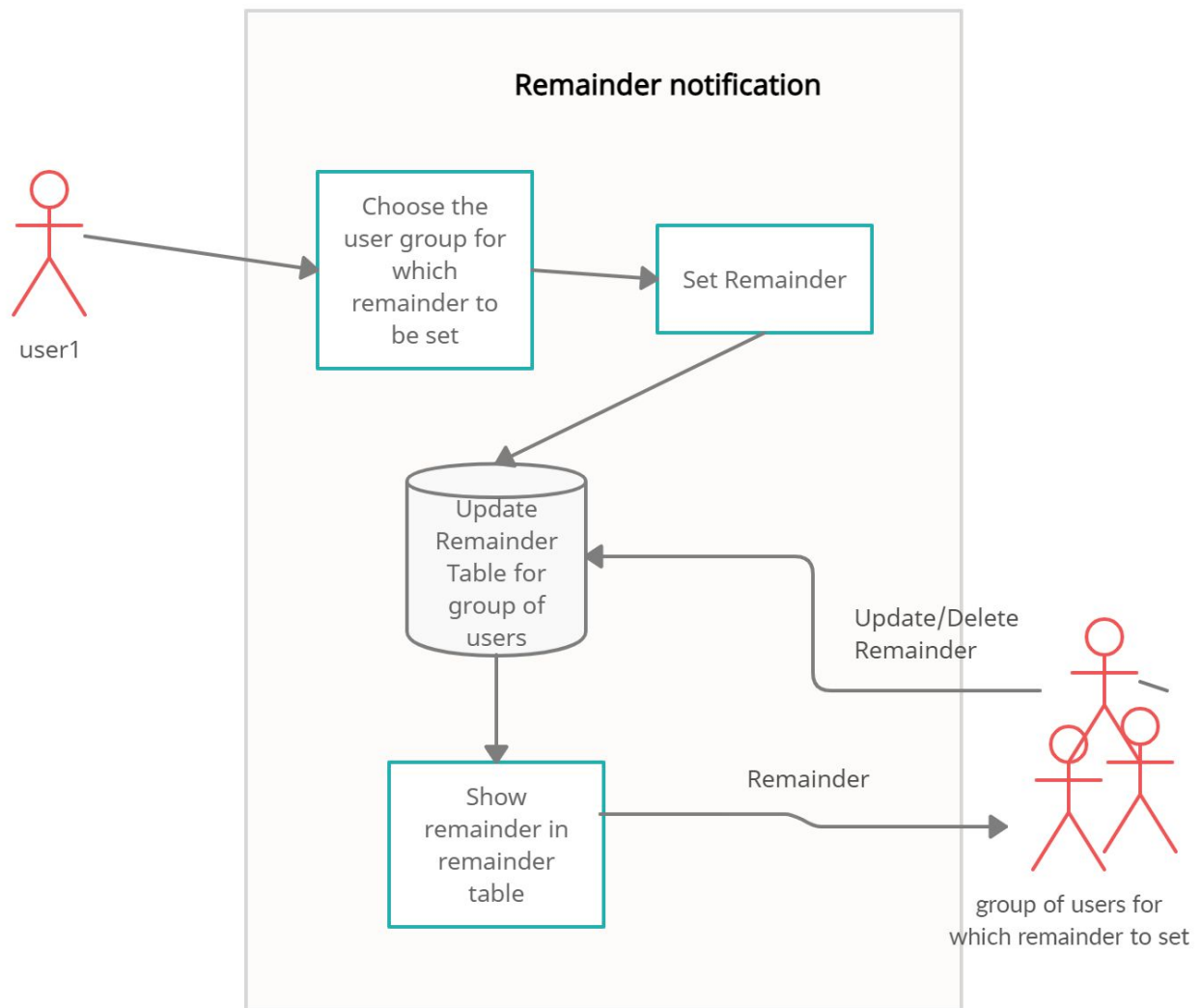
3. Sexual Assault Detection: By using this feature of the application we can stop sexual assault within the family. If any member of the family sends any abusive message to any girl in the family then before sending that message this application will predict the message is abusive or not if it is abusive then a notification will be sent to that girl parent that “ XYZ person is sending an abusive message to your daughter.” This feature is useful because a girl is never able to say these things to her parents.



4. Getting Uber/Ola Notification: By using this feature of the application whenever a person book an uber/ola for driving to your home. Then the application will give notification to you that they may arrive at your home. So that you will be prepared before he comes to your house.



5.Remainder Feature: By using this feature any of the family member set reminders(like grocery to be bought or any other commitments) for other family members. This remainder can be set for only a group of members which can be decided by the person who is setting the remainder. This remainder can be updated or deleted by any of the group members.



3.0 Database

3.1 Database Description

Registration Table: To store Registered user detail.

<i>Field Name</i>	<i>Type</i>	<i>Constraint</i>
<i>ID</i>	<i>INT(30)</i>	<i>Primary key</i>
<i>FirstName</i>	<i>Char (30)</i>	<i>Not Null</i>
<i>LastName</i>	<i>Char (30)</i>	<i>Not Null</i>
<i>Email</i>	<i>Varchar (30)</i>	<i>Not Null</i>
<i>Password</i>	<i>Varchar (100)</i>	<i>Not Null</i>
<i>Phoneno.</i>	<i>Int(12)</i>	
<i>DOB</i>	<i>Date</i>	
<i>Anniversary</i>	<i>Date</i>	
<i>PartnerName</i>	<i>Char(30)</i>	
<i>MotherName</i>	<i>Char(30)</i>	
<i>FatherName</i>	<i>Char(30)</i>	
<i>Address</i>	<i>Varchar(100)</i>	
<i>date</i>	<i>date</i>	

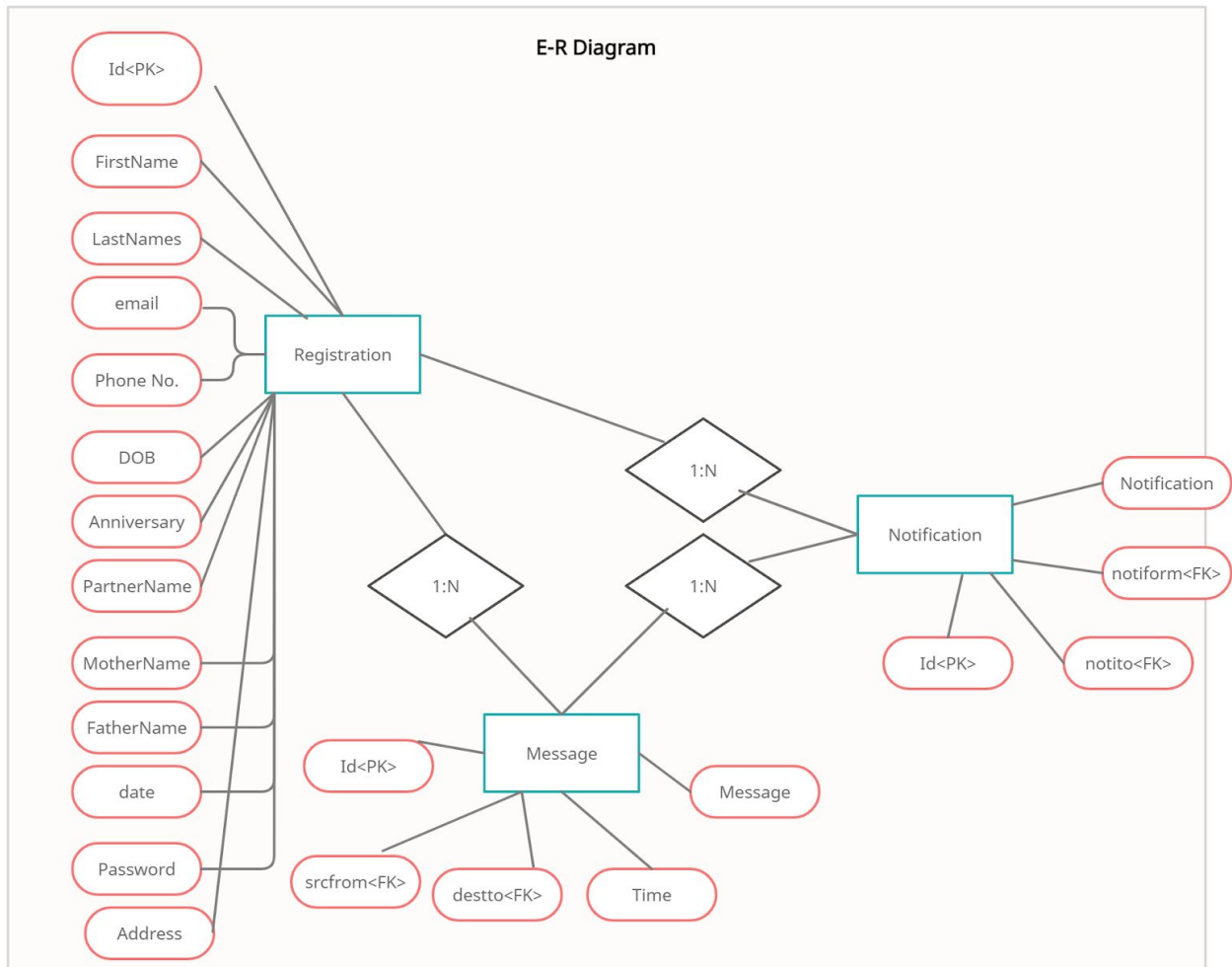
Message Table: To store messages sent by all users .

<i>Field Name</i>	<i>Type</i>	<i>Constraint</i>
<i>ID</i>	<i>Char(30)</i>	<i>Primary Key</i>
<i>ScrFrom</i>	<i>Char(30)</i>	<i>Foreign Key</i>
<i>Desto</i>	<i>Char(30)</i>	<i>Foreign key</i>
<i>Time</i>	<i>Time</i>	<i>Not Null</i>
<i>message</i>	<i>Varchar(255)</i>	<i>Not Null</i>

Notification Table: To store notification of all the users..

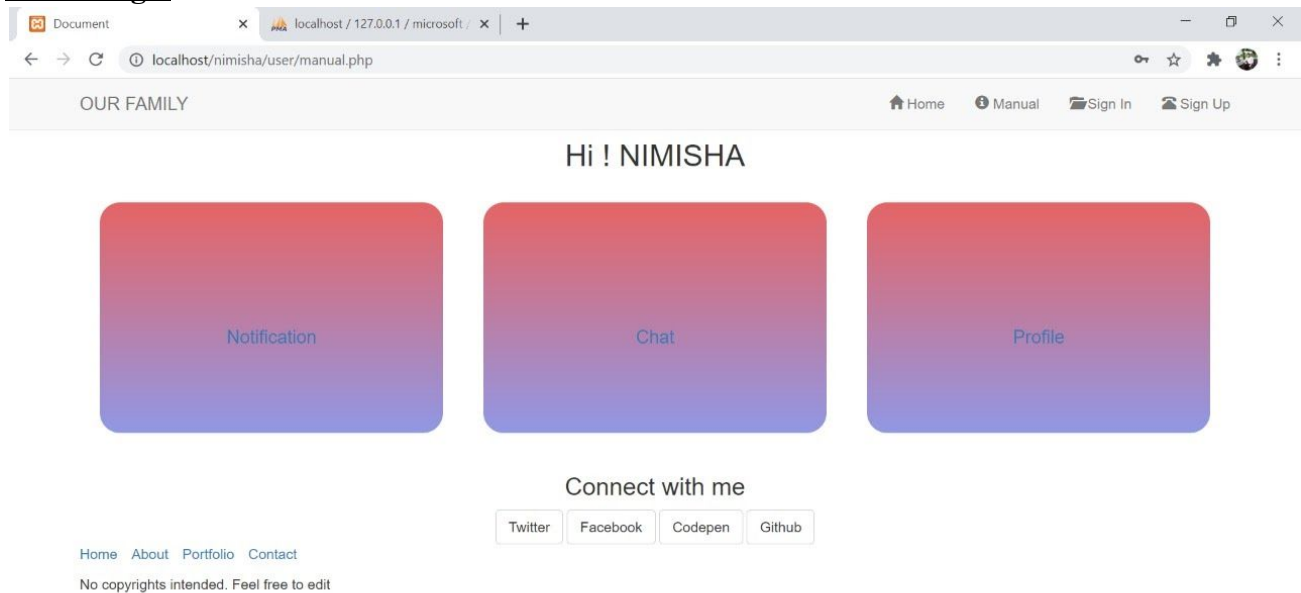
<i>Field Name</i>	<i>Type</i>	<i>Constraint</i>
<i>ID</i>	<i>Char(30)</i>	<i>Primary Key</i>
<i>Notito</i>	<i>Char (50)</i>	<i>Foreign Key</i>
<i>Notiffrom</i>	<i>Char (50)</i>	<i>Foreign key</i>
<i>Time</i>	<i>Char (50)</i>	<i>Not Null</i>
<i>Notification</i>	<i>Date</i>	<i>Not Null</i>

E-R Diagram

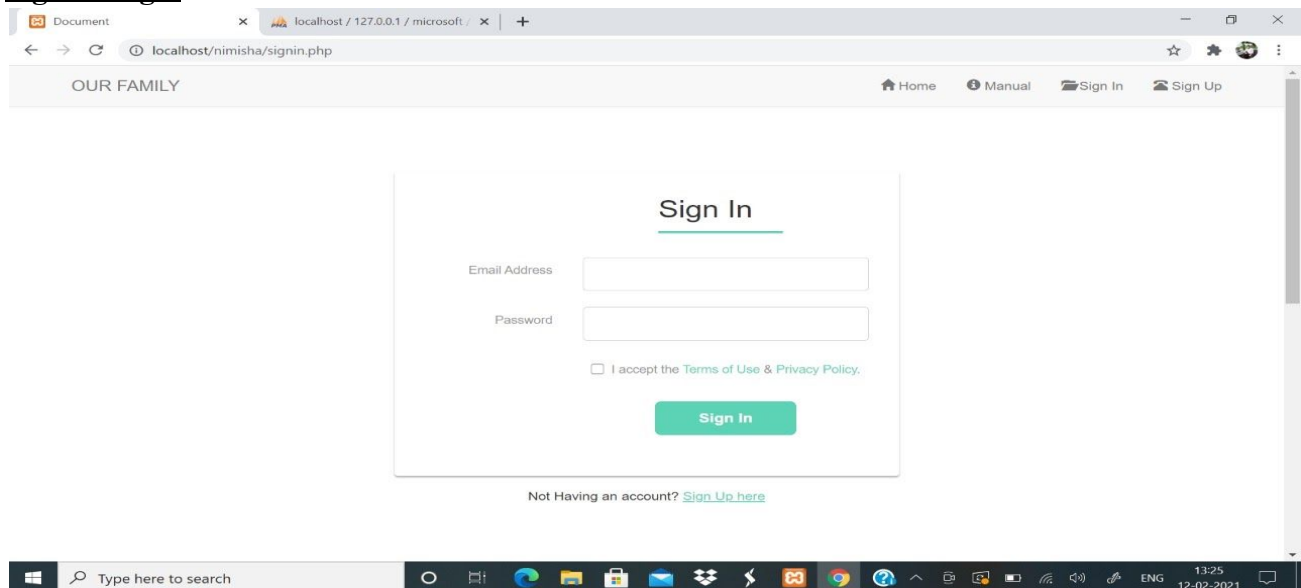


4.0 User Interface Design

Home Page:



SignIn Page:



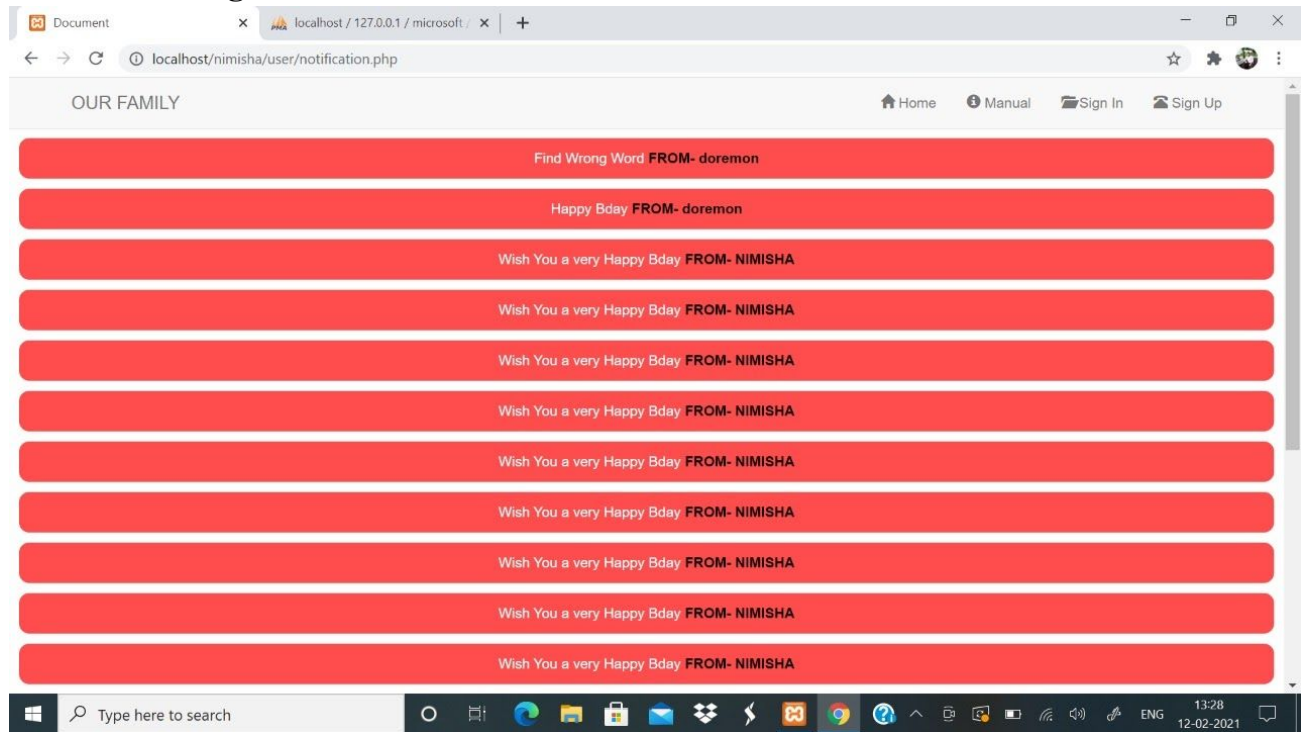
SignUp Page:

The screenshot shows a web browser window with the address bar displaying 'localhost/nimisha/signup.php'. The page has a header with 'OUR FAMILY' on the left and navigation links 'Home', 'Manual', 'Sign In', and 'Sign Up' on the right. The main content area is titled 'Sign Up' and contains a form with four input fields: 'Username', 'Email Address', 'Password', and 'Confirm Password'. Below the fields is a checkbox labeled 'I accept the Terms of Use & Privacy Policy.' and a green 'Sign Up' button. The Windows taskbar at the bottom shows the search bar and various application icons.

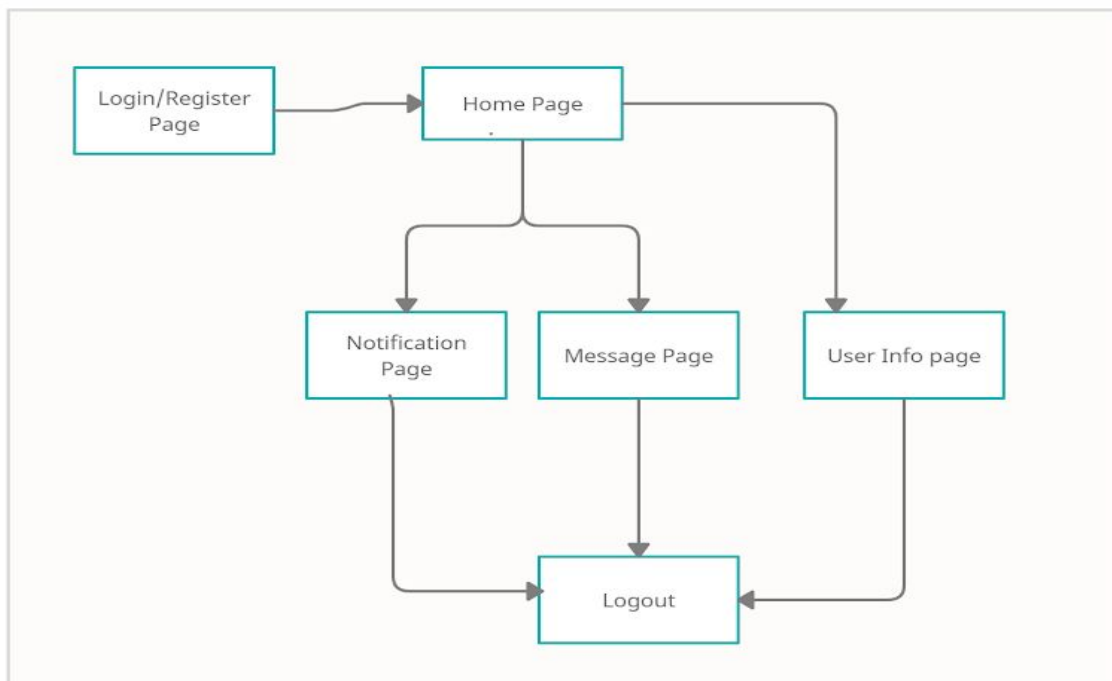
Message Page:

The screenshot shows a web browser window with the address bar displaying 'localhost/nimisha/user/chat.php?userId=2'. The page has a header with 'OUR FAMILY' on the left and navigation links 'Home', 'Manual', 'Sign In', and 'Sign Up' on the right. The main content area displays a chat interface. On the left, there are two outgoing messages from 'doremon': 'Hi' and 'PIKACHU'. On the right, there are three incoming messages from 'NIMISHA': 'Hello renjith', 'ME', and 'AMZI'. At the bottom, there is a chat input area with a 'To:' dropdown menu set to 'NIMISHA', a text input field labeled 'Message', and a green 'Send' button. The Windows taskbar at the bottom shows the search bar and various application icons.

Notification Page:



User Interface Tree:



5.0 References

1. API for Current Ride:
<https://developer.uber.com/docs/riders/references/api/v1.2/requests-current-get#section-request-statuses>
2. Lemmatization and preprocessing of Message text:<https://github.com/writecrow/lemmatizer>
3. Message Classification:
<https://towardsdatascience.com/how-is-logistic-regression-used-as-a-classification-algorithm-51eaf0d01a78>