

GatherUp

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Chapter 1: Introduction

1.1 What it is about

Our website **GatherUp** is a web-based platform designed to connect users and facilitate group activities. The primary goal is to provide a centralized space where users can create posts to invite others to join activities such as badminton, hiking, and more. Other users can then choose to participate in these activities, fostering a sense of community and encouraging social interaction. This report explores the functionality, technical points and possible challenges of this platform.

1.2 The functionalities of our product

User registration and login: The application requires a username and password to register. To avoid user confusion, users are not allowed to create accounts using an already existing username. The only criterion for a password is that it be at least 8 characters in length.

Activity posts: Users can create posts to announce and organize group activities, providing details such as the activity type, date, location, time, and maximum number of participants.

Joining activities: Users can browse through the available activity posts (in Posts) and express their interest in joining specific events.

User interaction (chatroom): To enable users to communicate with others and discuss details of scheduled events, the application provides users with a chatroom feature. Chat rooms allow users to communicate with each other without revealing their phone numbers, enhancing privacy and security, thus attracting more users.

1.3 The market gap that it covers

GatherUp addresses a market gap by providing a dedicated platform for organizing and discovering group activities. While social media platforms allow for event creation, they often lack the specific focus and features tailored to facilitating group activities. GatherUp aims to fill this gap by offering a user-friendly and purpose-built solution.

1.4 Keywords

group activities, social interaction, activity posts, user registration, joining activities

Chapter 2: Design and development

2.1 what programming languages and libraries we used

GatherUp is built using a combination of HTML, CSS, JavaScript, and PHP programming languages while we also used AJAX and jQuery. These technologies were selected based on their widespread adoption, extensive doc addition, our website was created from scratch through sketches and did not borrow from other websites, so it is 100% original.

umentation, and compatibility across different platforms and devices. In

HTML is used to build web pages and define content.

CSS is used to style the user interface, ensuring the design is beautiful and intuitive.

JavaScript is used to enhance interactivity and handle client-side functionality.

PHP is used for server-side processing, handling data management, and communication with databases.

The website follows a client-server architecture, where client-side code (HTML, CSS, JavaScript) runs in the user's web browser, while server-side code (PHP) executes on the server, handling requests and generating dynamic content.

AJAX is used to interact with the backend, storing and fetching data from the database to provide real-time response to user interaction.

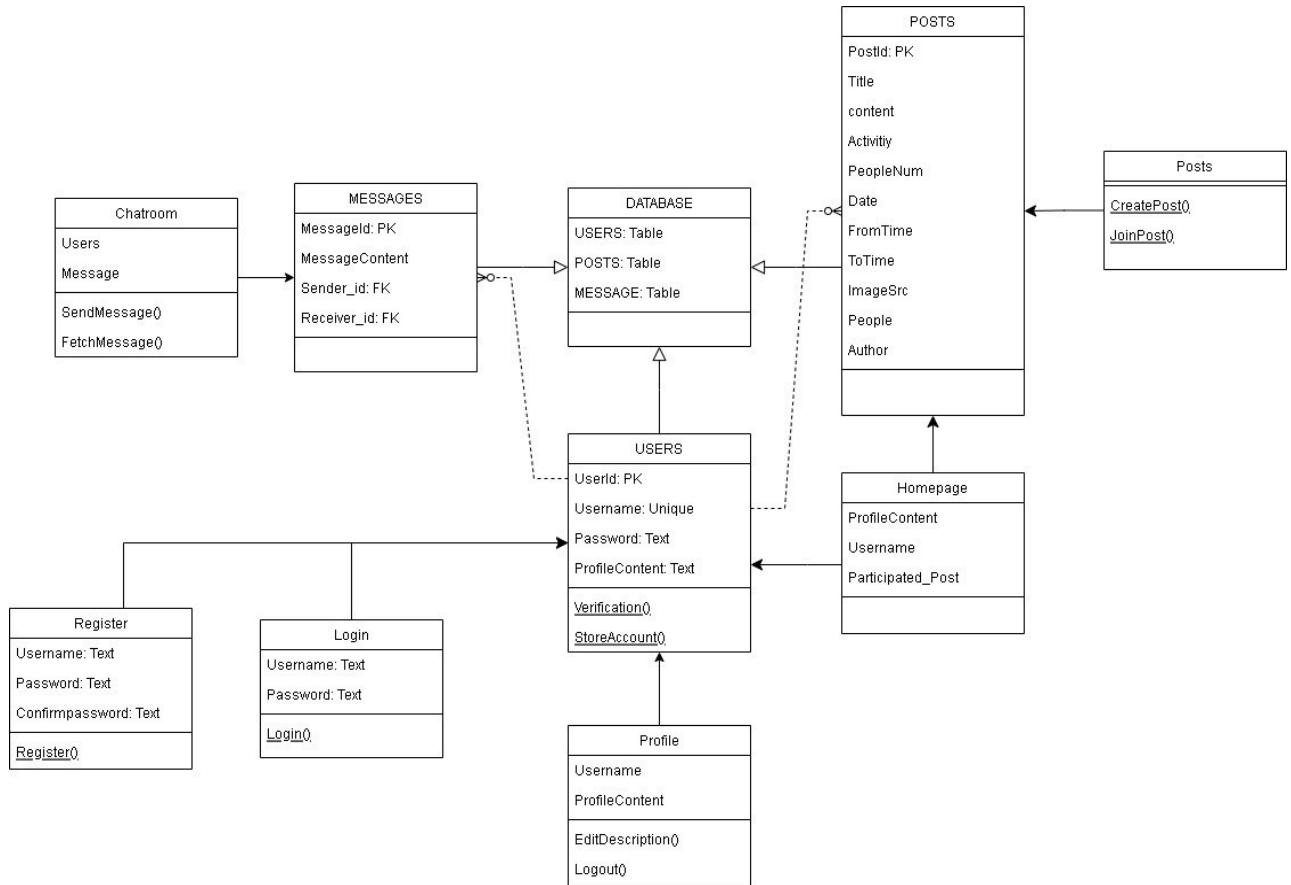
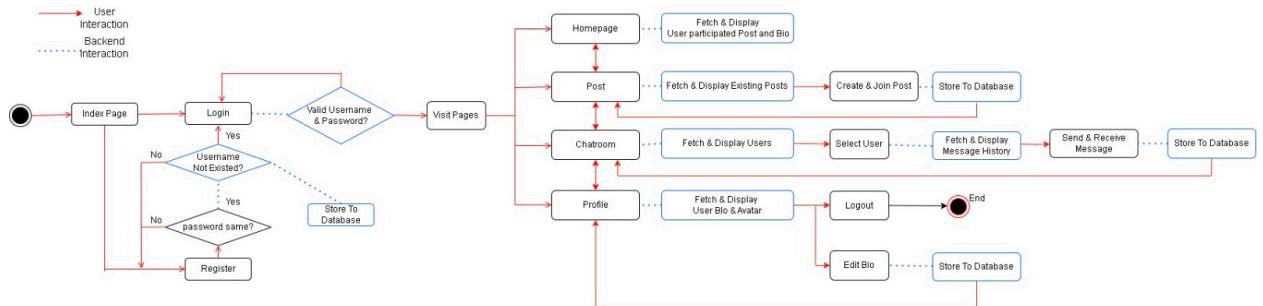
jQuery is used to support AJAX by providing more methods like \$.ajax() to perform async AJAX requests.

2.2 How we deploy it and why the platform

For deployment, GatherUp can be hosted on a web server that supports PHP and has access to a MySQL database. Popular hosting platforms such as Apache by using XAMPP can be used to serve the website. The choice of hosting platform depends on factors such as scalability, performance, and cost.

2.3 UML diagram

This is our UML:

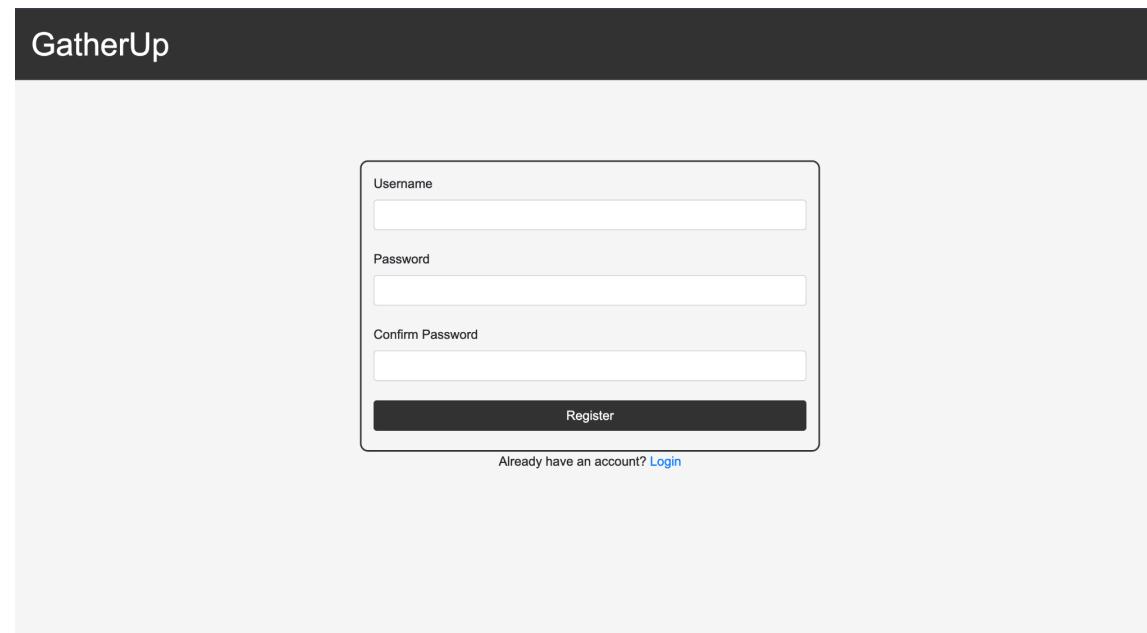
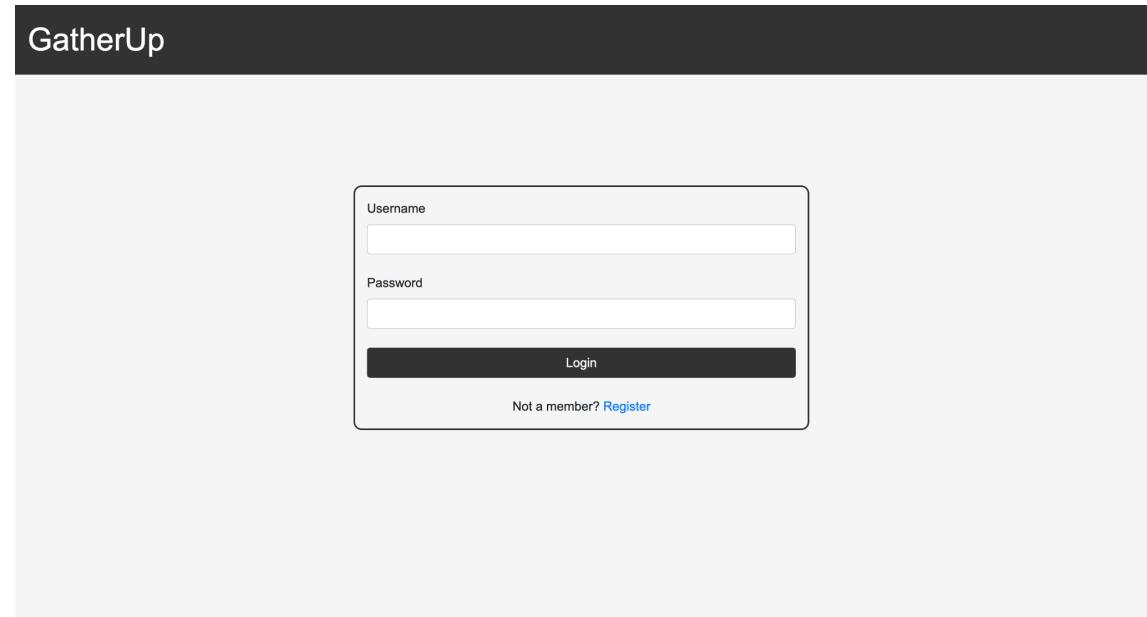


Chapter 3: Results

GatherUp successfully achieves the goals outlined in Chapter 1. The implemented functions are consistent with the envisioned functions, providing users with a platform to create, discover and join group activities.

Key results include:

User Registration and Login: The registration and login process was fully functional, allowing users to create accounts and securely access the Platform.



First you enter the login.html page. If you have not registered yet, click Register and you can set a specific username and password.

Homepage: show “my posts” which were posted on the website by myself and show my avatar and signature.

GatherUp

My Posts:

ivesli
tset home
Activity Expected Date: 2024-04-30

test
test
Activity Expected Date: 2024-04-10

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Posts page: show the lastest posts by other users and have function:

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Home Posts Chatroom Profile

Posts

test
Posted by ivesLi
Expected Date: 2024-04-10
test

test2
Posted by ivesli
Expected Date: 2024-04-04
create test

test max
Posted by user1
Expected Date: 2024-04-18
test max

title
Posted by test
Expected Date: 2024-04-11
sy

Create Posts: create posts, select an event to automatically match event images

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Create Post

Title:

Content:

Activity:

Maximum number of participants:

Select a date:

From:

To:

Submit

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Join post: click in for detailed information about the posts and join them.

GatherUp

test max

2024-4-18

Content:
test max

Activity:
swimming

Maximum number of participants:
1

Time Duration:
from 8:00 to 12:00

joined People:
• user1

★ Join ★

The screenshot shows a user interface for a social gathering. At the top, there's a decorative bar with segments in gold, teal, orange, and dark brown. Below it is a header with the 'GatherUp' logo and navigation links for Home, Posts, Chatroom, and Profile. The main content area features a large image of a giant Buddha statue on Lantau Island. Below the image, the event details are listed:

- Name:** climb Lantau Island
- Date:** 2024-04-26
- Content:** Join me and climb Lantau Island
- Activity:** Hiking
- Max capacity:** 3
- Time Duration:** from 13:00 to 17:00
- Joined People:**
 - test
 - Michael

A small orange button at the bottom right says "Join successfully".

If the event reaches maximum capacity, users will not be able to join.

This screenshot shows the same event listing as above, but with a different outcome. The joined people list now includes three names: test, Michael, and alice. A gray message box at the bottom right indicates: "Reach max people, cannot join".

Profile: show profile and edit

The screenshot shows the user profile page for 'test'. The top navigation bar has 'GatherUp' and links for Home, Posts, Chatroom, and Profile, with Profile being the active tab. The profile section includes a circular profile picture of a man wearing sunglasses and a blue shirt, with the name 'test' and the subtitle 'Is me'. Below the profile picture is a black 'Edit Profile' button. In the bottom right corner of the main content area is a black 'Logout' button. At the very bottom of the screen, a small copyright notice reads: "© 2024 GatherUp. All rights reserved."

Chatroom: Chat with your friends

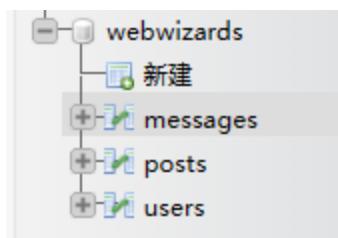
The screenshot shows a web application interface for a chatroom. At the top, there's a dark header bar with the "GatherUp" logo on the left and navigation links "Home", "Posts", "Chatroom" (which is underlined, indicating it's the active page), and "Profile" on the right. Below the header is a sidebar on the left containing a table-like structure with columns for "Chatroom" and "User". The "Chatroom" column lists "test", "Michael", "alice", "bob", and "ken". The "User" column lists "test: Hi I am Michael", "test: Hi I am testing", "test: testing", "test: hi Michael", and an empty line for ken. At the bottom of the sidebar, it says "© 2024 GatherUp. All rights reserved." To the right of the sidebar is a large white area for the main content. In the bottom right corner of this area, there is a dark button labeled "Send".

Chapter 4: Usage

To set up and run GatherUp locally, follow these steps:

Install a web server (such as Apache/XAMPP) and make sure it supports PHP.

Set up a MySQL database and import the provided SQL schema to create the necessary tables.



Configure the database connection details in the PHP file.

Copy the project files to the web server's document root directory, our default user is "root", password is "", database name is "webWizards".

Access the website through a web browser using the URL: "localhost/(..your folder)/login.html", after you register, you will be directed to the homepage.