



**Gather+**

FunkyTech

# Product Presentation & Overview

CEN 4010: Principles of  
Software Engineering

# Product Personnel

## Team Members and Roles

- **Product Owner:** Michael Resendes *mresendes2017@fau.edu*
- **Front-End Developer:** Betsy Kuruvila *bkuruvil@fau.edu*
- **Back-End Developer:** Brent Werne *bwerne2018@fau.edu*
- **Scrum Master:** Michael Simon *msimon2015@fau.edu*

# Product Personnel

## Project and Group Information

- Group Number: **Seven**
- Team Name: **FunkyTech**
- Project Name: **Gather Plus**
- Product URL: **Gather+**



**Gather+**

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# Product Summary

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# Gather+ Premise

“Connection Over Content”

## Purpose Overview

- **Gather+** is a web application designed to remedy the extreme feelings of isolation and loneliness that may affect us during a time of quarantine.
- **Gather+** seeks to bridge people together through their collective interest in different topics and subjects.
- **Gather+** is meant to foster genuine conversation and discussion that is otherwise lost when in-person contact is not available.

## Why Gather+?

- Many social media websites are content-driven. Users are meant to submit virtual content such as videos, images, and comments that are then subject to a rating system (likes, retweets, upvotes, etc.).
- Gather+ will not feature any sort of rating system, allowing all users to be a part of a greater discussion.

# Gather+ Premise

## Functionalities

### Gather+ Basics

- **Gather+** will be composed of **Users** that have created their own **Gather+** accounts.
- From these accounts, **users** will then be able to visit the four different “Hubs” hosted on **Gather+**.

### Hubs

- **Hubs** serve as the key sections of **Gather+** that are dedicated to specific types of content.
- Presently, **Gather+** hosts **hubs** for *Books*, *News*, *Podcasts*, and *Games*.
- These **hubs** are home to display cards called “Placards.” **Hubs** are where users will connect with fellow Gather+ users over topics that interest them.

# Gather+ Premise

## Functionalities

### Placards

- **Placards** are pages on **Gather+** that are focused on a media item in-line with the topic of the **Hub** the **Placard** is found in.
- A **Placard** could be centered on a recent news story, a popular novel, or any other subject that users would share a common interest in
- **Placards** contain both content relevant to the subject matter as well as a Community Messageboard where users are free to discuss the **Placard** with other **Gather+** users.

### Wellspace

- In addition to Hubs, **Gather+** also features a section dedicated to information on the on-going situation of COVID-19.
- This section, named **Wellspace**, contains basics guidelines on how to stay safe during the pandemic as well as links to reputable health organizations and care facilities.

# Gather+ Premise

## Target Demographic

### Gather+ Users

- **Gather+** is intended to be a place dedicated to thoughtful and engaging conversation. As such, we believe all adult users should be welcome onto the site and be able to join whatever communities they wish.
- However, since some **Gather+** placards may contain mature/sensitive topics, we do require that a user be at least 16 years of age in order to register a **Gather+** account.

### Why Choose Gather+?

- **Gather+** is designed to appeal to people who want a more personal social media experience.
- The content rating systems of other social media platforms can often feel off-putting to users who may not have the popularity/following of other users.
- **Gather+** provides these users with a place where all users are on equal footing, and every user can have their voice be equally heard.





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# Technical Overview

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# Product Overview

## General Technical Information

- **Gather+** will be hosted on a LAMP (Linux, Apache, MySQL, PHP) server provided to the team by FAU.
- This server will execute the web languages used on **Gather+** as well manage the MySQL tables used to store website data used by the application.
- The **Gather+** application will be accessible on browsers via the following LAMP address hyperlink: [GatherPLUS](#)

# Languages/ Frameworks

## Front/Back-end Systems

- **Gather+** is primarily comprised of a basic HTML and CSS frame that uses PHP for back-end functionality.
- Front-end design is primary done through the use of **Bootstrap**, a CSS framework that is used to generate many GUI elements in the application.
- All back-end systems are managed through our team-written PHP scripts that manage and modify the MySQL tables hosted on the LAMP server.





# Database Management

PHP, MySQL, phpMyAdmin

- PHP is the language we chose to use to update and edit MySQL tables that stores data for **Gather+**.
- The MySQL tables that are hosted on the team's LAMP server help store relevant information like user account information and message board content.
- The **Gather+** team also utilizes the phpMyAdmin tool to perform any necessary updates and maintenance needed for the SQL tables.



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# Project Exhibition

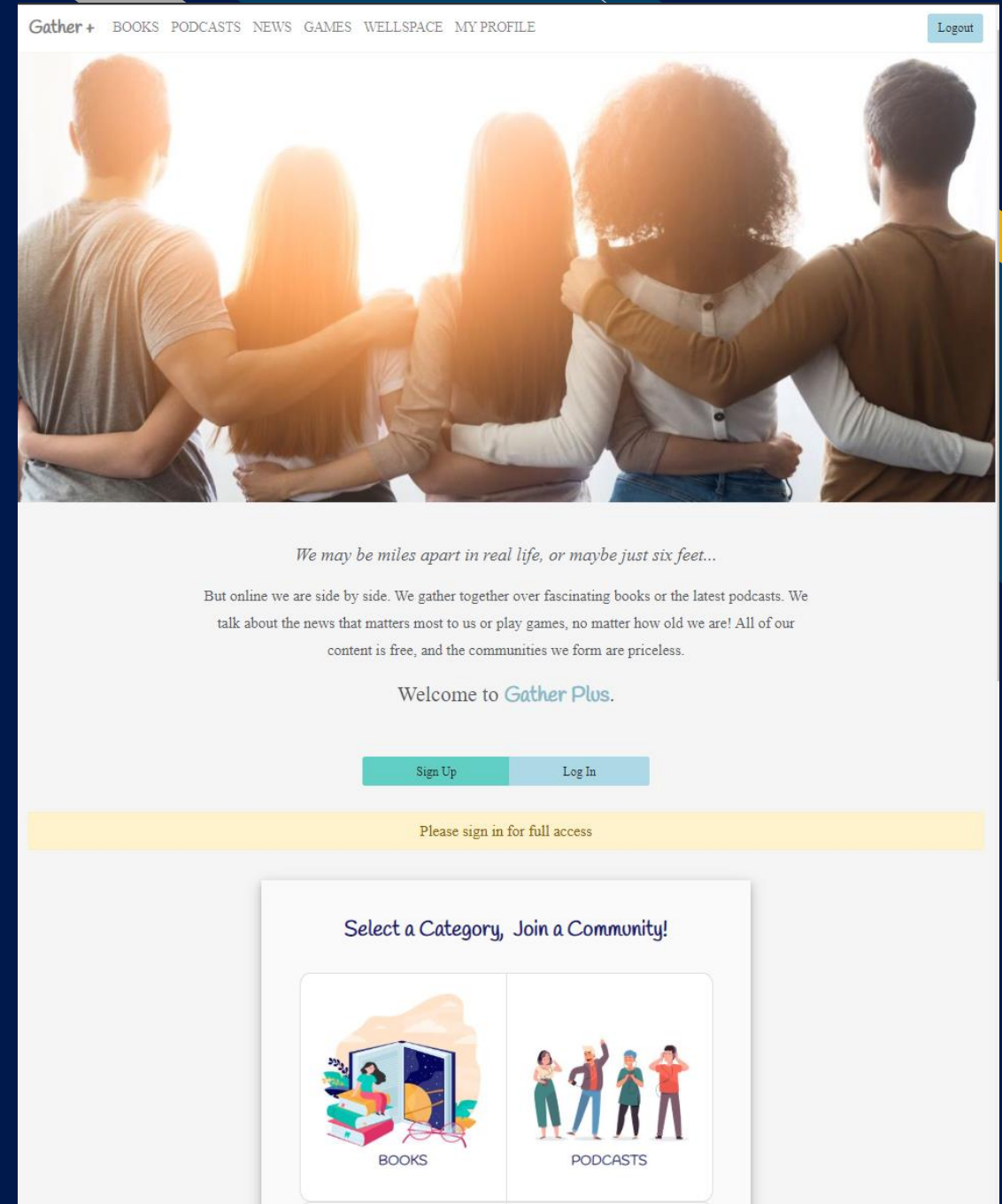
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# Main Page

## Welcome & Overview Page

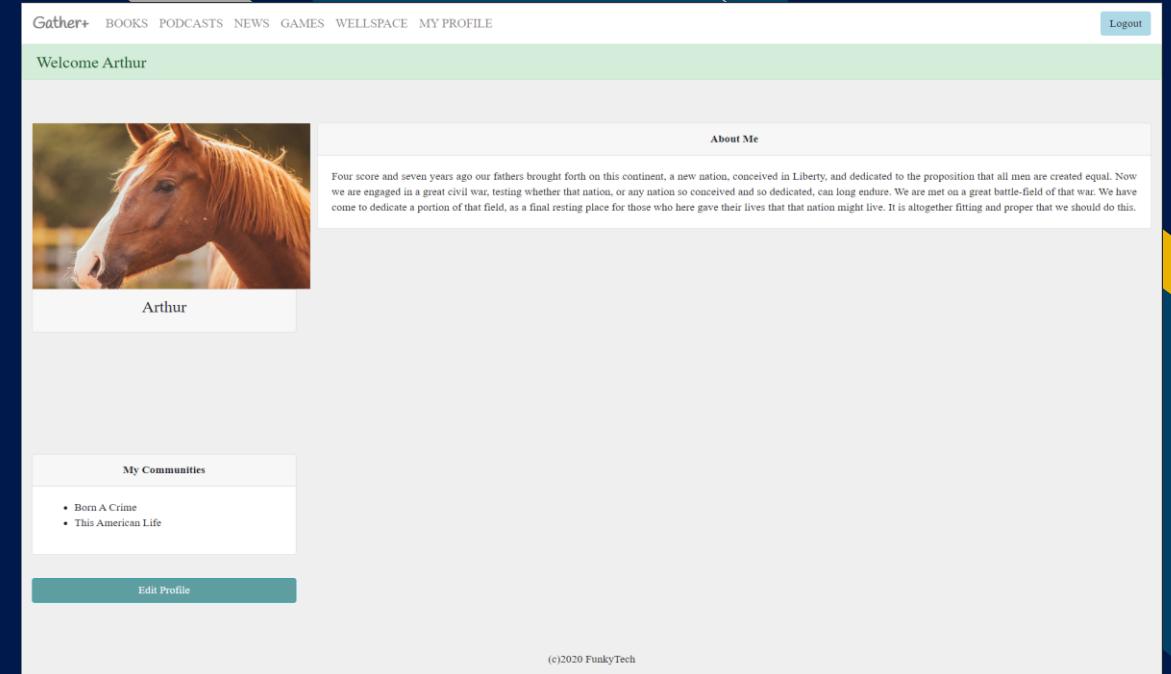
- The **Gather+** Main page will welcome users to the site and encourage them to login to their **Gather+** account or create an account if they have not done so already.
- The Main page also includes links to each of the four hubs, a feel-good news story of the day, and an “About Us” describing the **Gather+** team.



# “My Profile” Page

## Account & Edit Page

- The “My Profile” page contains the account information of any user currently logged-in to **Gather+**. (Example shown in the top image.)
- Users have the option of selecting the “Edit Profile” button on their page, allowing them to make updates to their account information which will in-turn be made to the “user\_accounts” MySQL table stored on the site’s LAMP server. (Table show in the bottom image.)



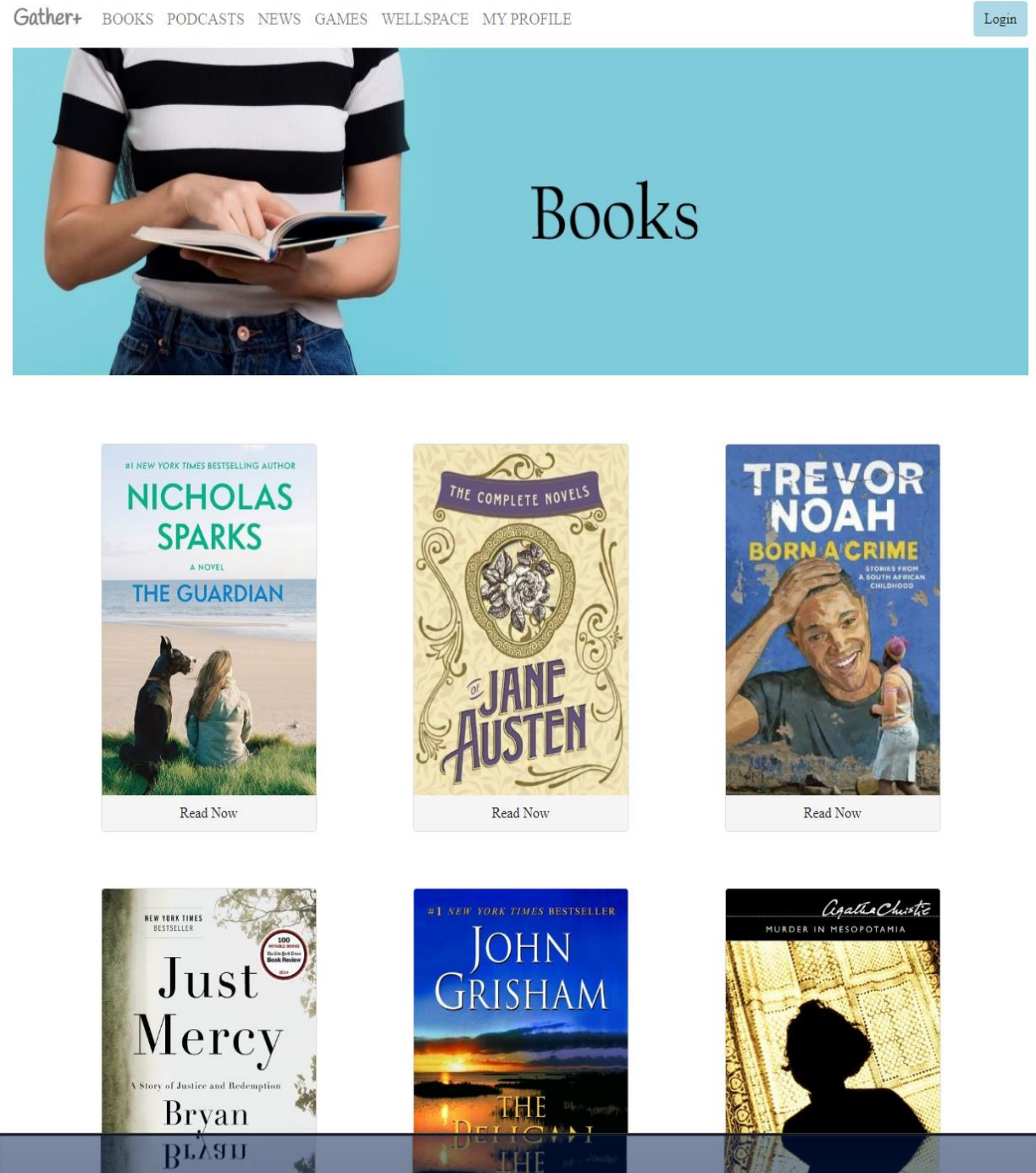
The screenshot shows a MySQL database interface with the 'user\_accounts' table selected. The table contains 5 rows of data. The interface includes a query editor at the top, a table view with columns for user ID, username, password, email, first name, last name, user image, and blurb, and a footer with options to print, copy, export, and create a view.

	userID	username	password	email	firstname	lastname	userImage	blurb
<input type="checkbox"/>	47	bweme2018	\$2y\$10\$M49JiHt0wWN6YzncFLOyupyzgwWmrbw9dHxH461h...	brentweme48@gmail.com	brent	weme		
<input type="checkbox"/>	38	Baker	\$2y\$10\$D5x00zqSILG4KjQV788eL4pXfWMdip9nghBia1X...	Browns@Cleveland.gov	Otto	Graham	[BLOB - 225.5 KiB]	Since resuming operations in 1999, the Browns have...
<input type="checkbox"/>	46	imauser	\$2y\$10\$CodwFKx4YyqRTqG6IAGMOIFhikEM1BuSTFF5B7Ka...	brewdamuse@gmail.com	Jane	Doe		
<input type="checkbox"/>	50	Arthur	\$2y\$10\$u7wGY5yFD8lQuVwxZxQ.uzYEdtbKylOy1wdaUuBoeT...	poker@saintdenis.gov	Tacitus	Kilgore	[BLOB - 222.5 KiB]	Four score and seven years ago our fathers brought...
<input type="checkbox"/>	48	Mike Wazowski	\$2y\$10\$osKdXe9Tru4zodmizsCOWeI0f5gKGc8wV06v8BGl...	Sacrer@MonsterInc.com	Mike	Wazowski	[BLOB - 21.5 KiB]	Mike Wazowski is the deuteragonist of the 2001 Dis...

# Hubs

## Collection of Placards

- A **Hub** page is a section of **Gather+** dedicated to a central topic. (The “Books” hub is shown to the right.)
- **Hubs** contain a list of links to **Placards**, where specific subjects related to a **hub’s** topic can be viewed and discussed.




# Placards

## Content & Discussion

- **Placards** are the place where **Gather+** users will be able to view content hosted on the application and engage in conversations with other users. (An example of a podcast placard is shown.)
- **Placards** typically contain an e-reader, an audio player, or a web link that will allow a user to view the media that serves as the topic of discussion.
- By joining the **Placard Community**, a user will be able to post on the Community's Message Board, allowing them to be a part of a greater conversation with other community members.

Gather+BOOKSPODCASTSNEWSGAMESWELLSPACEMY PROFILELoginLogout

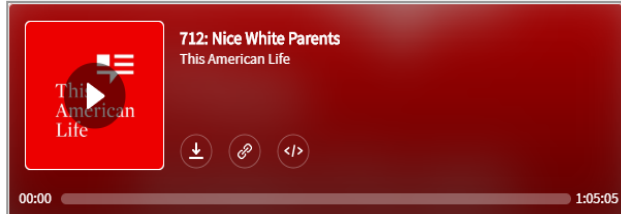
Welcome Arthur




### This American Life

Mostly we do journalism, but an entertaining kind of journalism that's built around plot. In other words, stories! Our show is heard by 2.2 million listeners each week on over 500 public radio stations in the U.S., with another 3.1 million people downloading each episode as a podcast. We've won all sorts of awards, over a half dozen Peabody Awards, and the very first Pulitzer Prize ever awarded to a radio show or podcast.

[Click to Listen](#)[Join the Community!](#)[View The Discussion](#)



Message Board

Arthur  
This is a good podcast

Enter Your Message Here

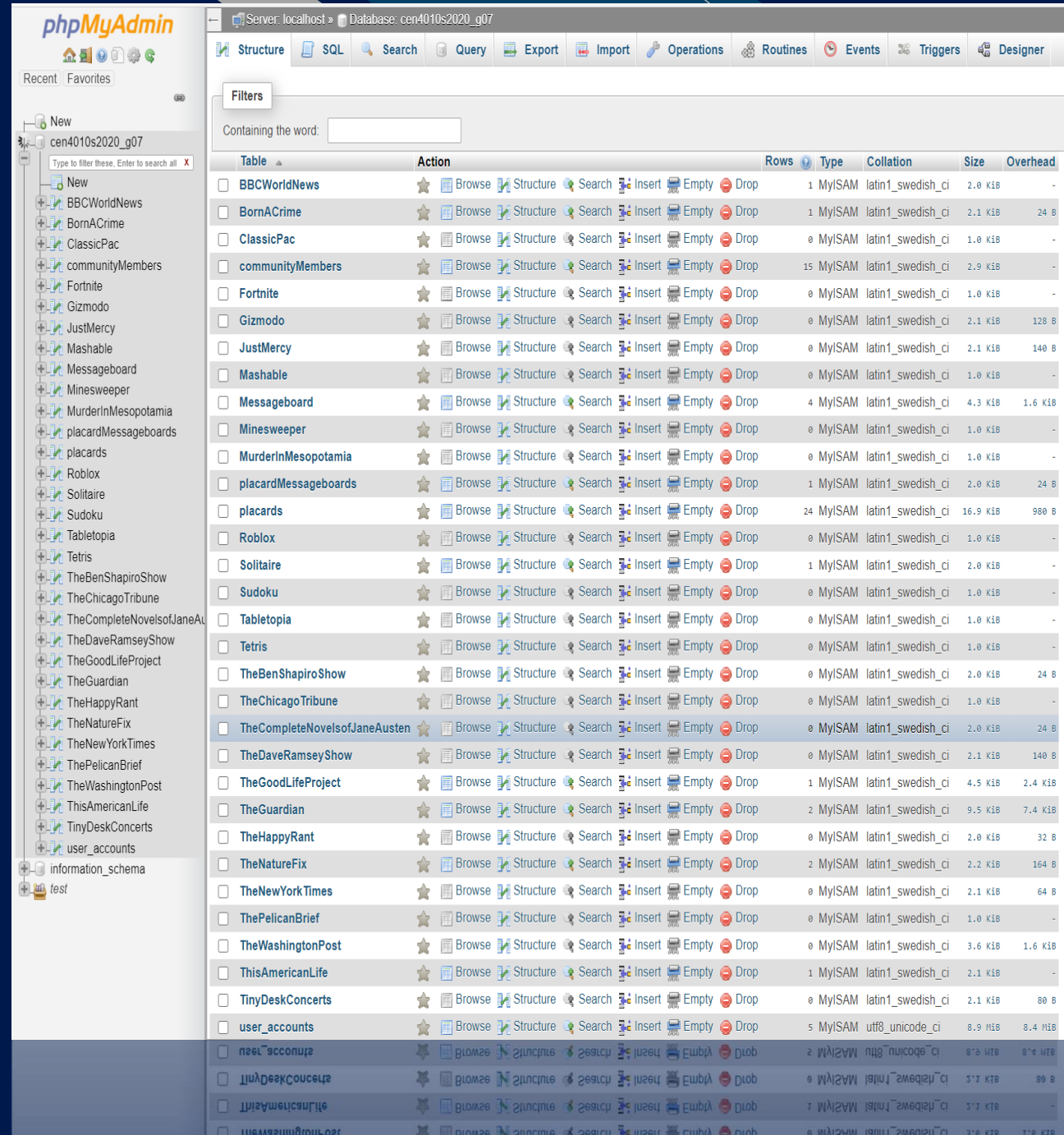
Send



# Database Management

## MySQL Tables & LAMP Server

- **Gather+** stores relevant application data in MySQL tables hosted on the team's LAMP server.
- **Gather+** user information is stored within the “user\_accounts” table.
- The “placards” table stores information for placards hosted on each of the four hubs.
- All other tables store message board content and are given the name of the placard to which they are linked.



The screenshot shows the phpMyAdmin interface for a MySQL database named 'cen4010s2020\_g07'. The left sidebar lists various tables, including 'BBCWorldNews', 'BornACrime', 'ClassicPac', 'communityMembers', 'Fortnite', 'Gizmodo', 'JustMercy', 'Mashable', 'Messageboard', 'Minesweeper', 'MurderInMesopotamia', 'placardMessageboards', 'placards', 'Roblox', 'Solitaire', 'Sudoku', 'Tabletopia', 'Tetris', 'TheBenShapiroShow', 'TheChicagoTribune', 'TheCompleteNovelsOfJaneAusten', 'TheDaveRamseyShow', 'TheGoodLifeProject', 'TheGuardian', 'TheHappyRant', 'TheNatureFix', 'TheNewYorkTimes', 'ThePelicanBrief', 'TheWashingtonPost', 'ThisAmericanLife', 'TinyDeskConcerts', 'user\_accounts', 'information\_schema', and 'test'. The main panel displays a table of database information with columns: Table, Action, Rows, Type, Collation, Size, and Overhead. The table lists various tables and their properties.

Table	Action	Rows	Type	Collation	Size	Overhead
BBCWorldNews	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.0 KiB	-
BornACrime	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	24 B
ClassicPac	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
communityMembers	Browse Structure Search Insert Empty Drop	15	MyISAM	latin1_swedish_ci	2.9 KiB	-
Fortnite	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
Gizmodo	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.1 KiB	128 B
JustMercy	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.1 KiB	140 B
Mashable	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
Messageboard	Browse Structure Search Insert Empty Drop	4	MyISAM	latin1_swedish_ci	4.3 KiB	1.6 KiB
Minesweeper	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
MurderInMesopotamia	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
placardMessageboards	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.0 KiB	24 B
placards	Browse Structure Search Insert Empty Drop	24	MyISAM	latin1_swedish_ci	16.9 KiB	980 B
Roblox	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
Solitaire	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.0 KiB	-
Sudoku	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
Tabletopia	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
Tetris	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
TheBenShapiroShow	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.0 KiB	24 B
TheChicagoTribune	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
TheCompleteNovelsOfJaneAusten	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.0 KiB	24 B
TheDaveRamseyShow	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.1 KiB	140 B
TheGoodLifeProject	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	4.5 KiB	2.4 KiB
TheGuardian	Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	9.5 KiB	7.4 KiB
TheHappyRant	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.0 KiB	32 B
TheNatureFix	Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	2.2 KiB	164 B
TheNewYorkTimes	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.1 KiB	64 B
ThePelicanBrief	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	1.0 KiB	-
TheWashingtonPost	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	3.6 KiB	1.6 KiB
ThisAmericanLife	Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2.1 KiB	-
TinyDeskConcerts	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	2.1 KiB	80 B
user_accounts	Browse Structure Search Insert Empty Drop	5	MyISAM	utf8_unicode_ci	8.9 KiB	8.4 KiB
information_schema	Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	0.7 KiB	0.7 KiB
test	Browse Structure Search Insert Empty Drop	0	MyISAM	latin1_swedish_ci	0.7 KiB	0.7 KiB





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# Potential Expansion

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# Future Features

## User-Created Placards

**Feature:** The **Gather+** team had planned to give users the ability to create their own placards that could be viewed by other users.

**Reason for Absence:** This feature was never implemented due to logistical concerns on requiring users to source material for an e-reader/audio player, which would have been difficult to monitor and cross-check.



# Future Features

## Direct Messaging

**Feature:** Gather+ users were originally intended to have the ability to directly message other users.

**Reason for Absence:** Presently, a DM feature would require a greater overhaul of the MySQL tables used on the LAMP server, which the team would not have been able to achieve in a reasonable timeframe.



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# Project Reflection

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# Team Self-Review

## *Reflection on Teamwork*

### Cooperation

- The members of Group 7 were able to jointly determine which members were best suited for which skill sets. Members with broader experience in certain areas such as programming were paired with members who were not as familiar, allowing for each member to refine their knowledge-base on different areas of software engineering.

### Tools

- All members of Group 7 also acquired a much better understanding of various tools used routinely in the software engineering field. Tools like GitHub and phpMyAdmin were increasingly used throughout the course of the project as members became more and more comfortable working with them.



# Team Self-Review

## *Possible Improvements for Future Projects*

### Communication

- On the whole, the members of Group 7 agree that we experienced an excellent level of communication in that it was frequent and consistent. However, there was room to improve the efficacy of that communication.
- There were occasions during the development process where members were unclear as to what aspects of the application were finished or what was assigned to whom. Such issues could likely be resolved with more structured communication during meetings, and attention given to available organizational resources.

### Timeframes

- Another issue that arose during the development process was related to timing and deadlines. The group typically outlined goals for each sprint with the expectation that they could be completed in a shorter length of time than was realistic.
- More consideration for the duration and time constraints *specific to the nature* of each given task was necessary. This came as a matter of practical inexperience with the various aspects of software development, and is something to keep in mind for future projects.



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Team **FunkyTech**  
**Thanks You.**

Michael Resendes, Michael Simon,  
Brent Werne, and Betsy Kuruville

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