WiFind

Wi-FIND ANYONE ELSE FOR A SECURE CONNECTION?

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Purpose and Problem Statement

- High speed WiFi is not always easily accessible
- Make high speed WiFi available at a local radius for quick consumption

Functional Requirements

- Allow user to find nearby available hosts
- User can search an area for available hosts
- User can see available hosts and their speed
- User can reserve a host
- WiFind calculates payment based on time used

Non-Functional Requirements

- System only allows one user to reserve a host at a time
- Connection is encrypted and safe to send data over
- Users are charged an adequate rate based on signal strength in relation to their area

Initial Concept

- The initial concept was to create a Flutter application
- App would query data via noSQL
- Data would be stored via Google Firestore

Final Product

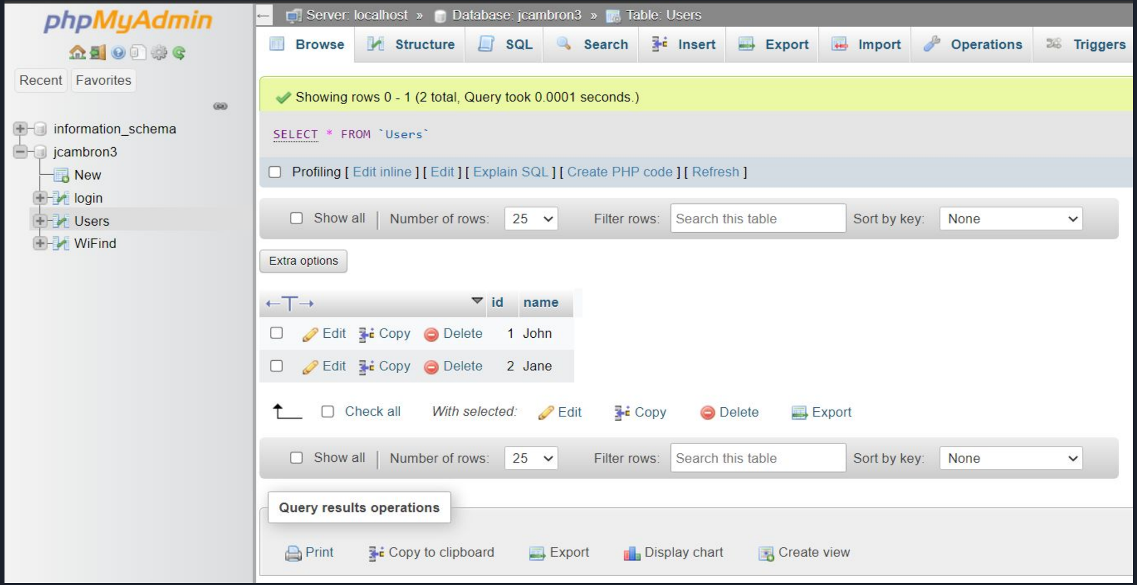
- A web application
- Data is stored on myphpadmin

Technology Stack

- The System is composed of HTML, CSS, JavaScript, and PHP
- Our System is hosted on the GSU Codd server (because it’s free and familiar)
- We used phpMyAdmin to create the database

Client - System Relations

- The database interacts with the system by saving the login users and the user’s name after they confirm their name on the rental screen.



✓ Showing rows 0 - 1 (2 total, Query took 0.0001 seconds.)

```
SELECT * FROM `Users`
```

□ Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

	id	name
□ Edit Copy Delete	1	John
□ Edit Copy Delete	2	Jane

□ Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Hard Coded Components

- We decided to hard code the different host's available for the user
- We also hard coded the information that will populate in the host page

Where Our Data is Stored

- Our data is stored on GSU’s Codd server
- phpMyAdmin allows us to communicate with the server in real time

What Went Wrong

- Firestore data collections were difficult/timely to set up correctly
- Flutter requires a large amount of set up
- Not everyone is experienced with Flutter

What Went Right

- We built a prototype web app that communicates with codd server
- We managed to style our site with css
- We were able to satisfy our functional and non-functional requirements

Our Experience

- Overall, the development process was as expected
- Our initial idea was ambitious to incorporate the Flutter framework
- We quickly adapted and switched to web app development