PiConfess+ Project Goal Document

Project Title

PiConfess+ – A Raspberry Pi-Powered Anonymous Confession Board

High-Level Functionalities

PiConfess+ is a web-based anonymous confession system where users can:

✔ Submit confessions (text + emoji reactions)

✔ Search for names/keywords in past confessions

✔ React to confessions (❤️, 😂, 😭, 😳)

✔ View trending confessions (most reactions)

✔ Auto-filter NSFW content (basic profanity check)

Example Scenarios (User-System Interactions)

Scenario 1: Submitting & Searching Confessions

User: Ryan, a student who wants to confess anonymously and check if anyone mentioned him.

1. User Action:

- Submits a confession: "I secretly like Ryan, but I can never tell him 😭"

- Later, searches for "Ryan" in the search bar.

2. System Processing:

- PHP checks for NSFW words before saving to MariaDB.

- When searching, PHP fetches confessions containing "Ryan" from the database.

3. System Response:

- Confirmation: "Confession posted! 🎉"

- Search results display:

- "Ryan is so cool, I wish he knew I existed ❤️"

- "Ryan is in my class, I hope he notices me 🥺"

Where PHP & DB are used:

- PHP validates input, filters NSFW content, and handles search queries.

- MariaDB stores confessions and retrieves search results.

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Scenario 2: Reacting & Viewing Trending Confessions

User: Sarah, who wants to engage with confessions and see what’s popular.

1. User Action:

- Clicks ❤️ on a confession: "I think Ryan is really cute but I’m too shy 😳"

- Scrolls to the Trending Confessions section.

2. System Processing:

- PHP increments the love\_reacts count in MariaDB.

- PHP fetches top 3 confessions sorted by total reactions.

3. System Response:

- The confession’s ❤️ count updates instantly (e.g., 3 ❤️ → 4 ❤️).

- Trending section shows:

1. "Ryan just made me laugh so hard 😂" (5 reactions)

2. "I have a crush on my lab partner 💀" (4 reactions)

Where PHP & DB are used:

- PHP processes reaction updates and fetches trending posts.

- MariaDB stores reaction counts and sorts confessions by popularity.