ApiaryHives

ApiaryHives Web Application

Lainey Wright, Afton Turner,
Jane Spelman, Sarah Church



Welcome to Apiary, a communication application whose primary goal is to allow groups and companies to connect effortlessly.



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Meet the Team



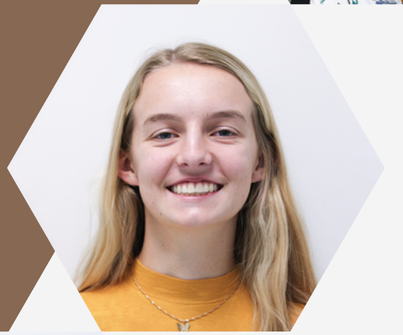
Lainey Wright

Lead Full-Stack Developer



Sarah Church

Lead Creative Director



Afton Turner

Lead Back-End Developer

and Security Engineer



Jane Spelman

Lead Front-End Developer

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4D Design Process



Discover

Review the prompt and assemble a team

Define

Brainstorm themes/ideas for the web application

Design

Create Apiary and all supporting pieces

Deliver

Turn in the project after reviewing requirements and the prompt

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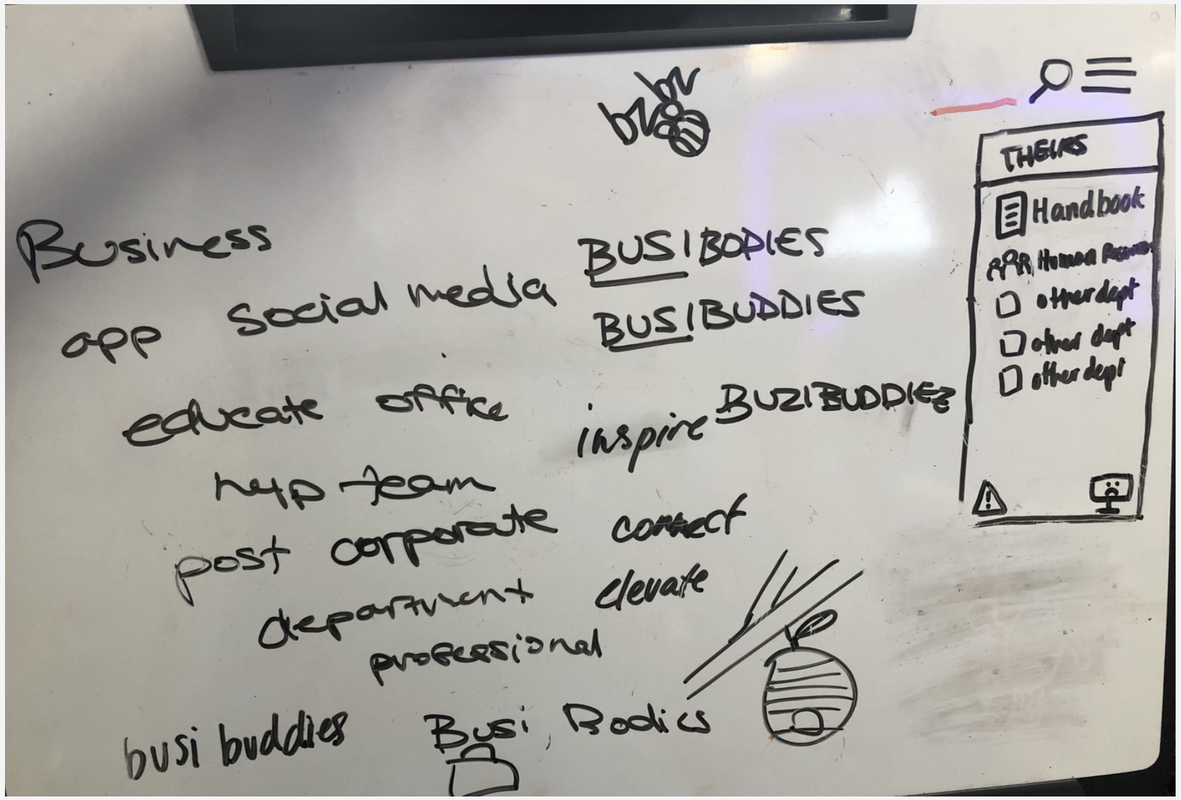
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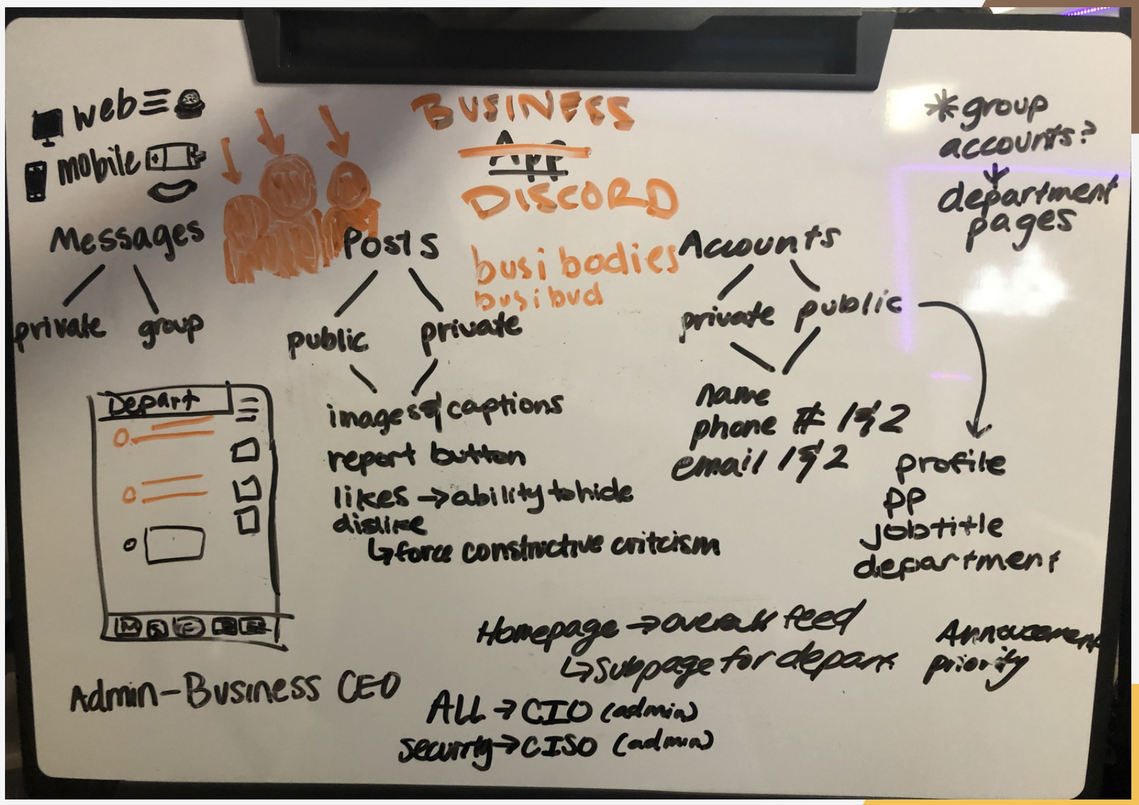
Discover

- Generate Ideas
- Research
- Plan Out Project
- Connect Information
- Execute Plan
- Edit/Peer Review



Brainstorming





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Mood Board

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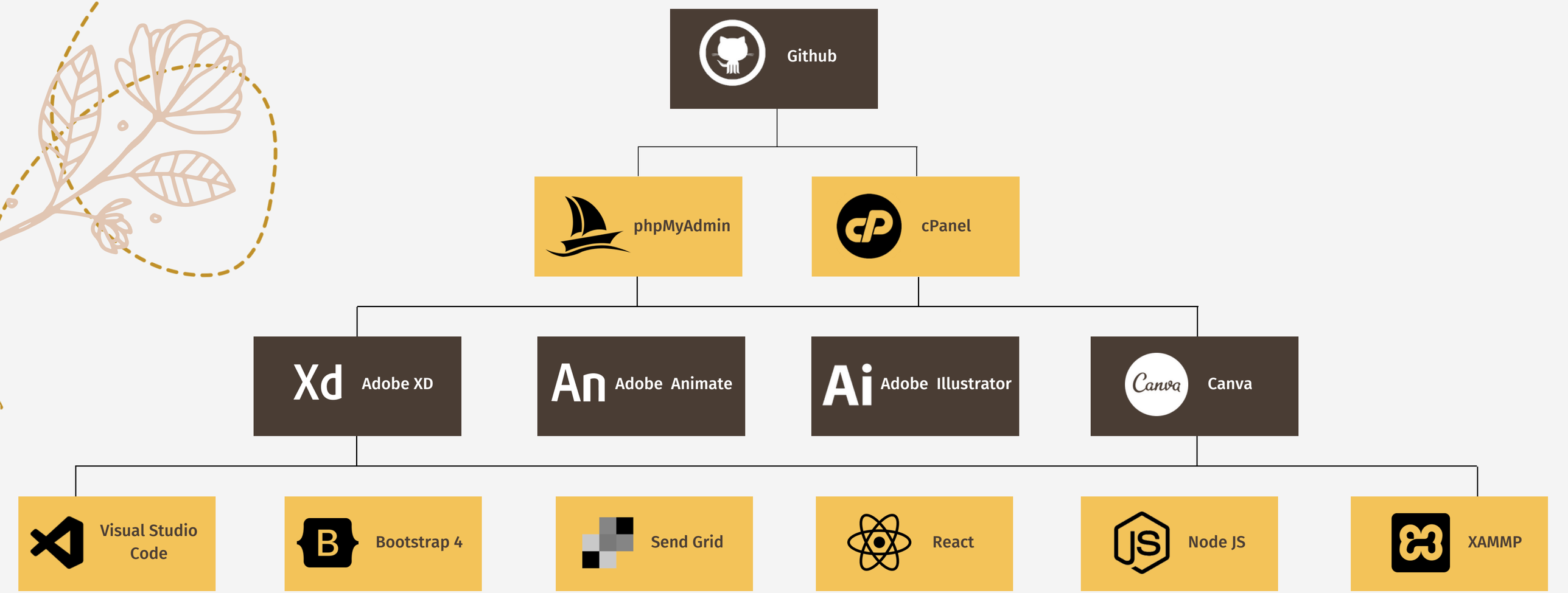






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Technology Used



Research Process

- Review other social media apps' designs/layout
- Primary features
- Client necessities
- Target small-medium companies



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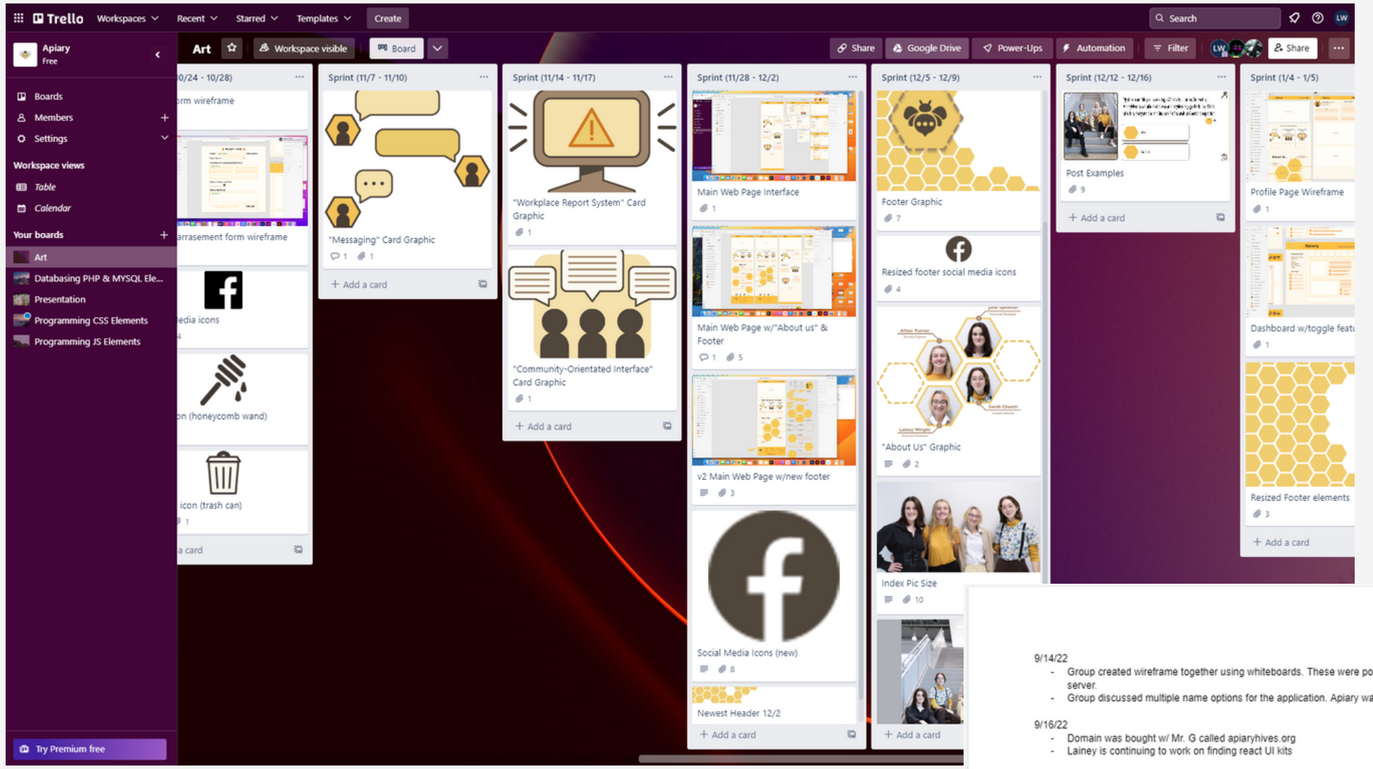
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Define

- Concepting
- Analyzing Prompt
- Wireframing
- Connections
- Preparations
- Creating our Identity



Creating Our Identity



- Defining our roles as a team
- Deciding what content to create
- Creating Daily Log through Trello
- Finalize Company Name

9/14/22
- Group created wireframe together using whiteboards. These were posted in the discord server.
- Group discussed multiple name options for the application. Apiary was chosen

9/16/22
- Domain was bought w/ Mr. G called apiaryhives.org
- Lainey is continuing to work on finding react UI kits

9/20/22
- Lainey has created the navigation bar
- It was decided Jane would be handling all the CSS attributes and stylizing while Lainey would handle the JS attributes and website building.

9/23/22
- Lainey discussed SQL Databasing Elements w/ Afton. A chart was created w/ all of the necessary components and links
- Lainey attempted to resolve redact download issues. Will be reaching out to tech guy for assistance.
- Ender was not present at the meeting

9/26/22
- Lainey outlines needs for graphic attributes such as header, multiple buttons, and pfp outline to Ender
- Lainey works with Jane to resolve tech issue regarding react downloads, calling upon tech guy to sudo the install command.
- Lainey gave Afton the SQL download instructions and documentation.
- Work will be done to create an FTP transfer using FileZilla

9/28/22
- Lainey worked with Afton to download SQL, Node.js, Visual Studio Code, and git
- Headers were created by Ender and put in trello
- We are waiting for tech guy to return from his vacation time to help us install react

9/29/22
- Afton successfully installed git and work was done to create a cpanel through elithetechguy.com
- Ender created the dark and light button, search button, and hamburger button.

9/30/22
- A post button was created by Ender
- Lainey worked to resolve node.js module issues

10/4/22

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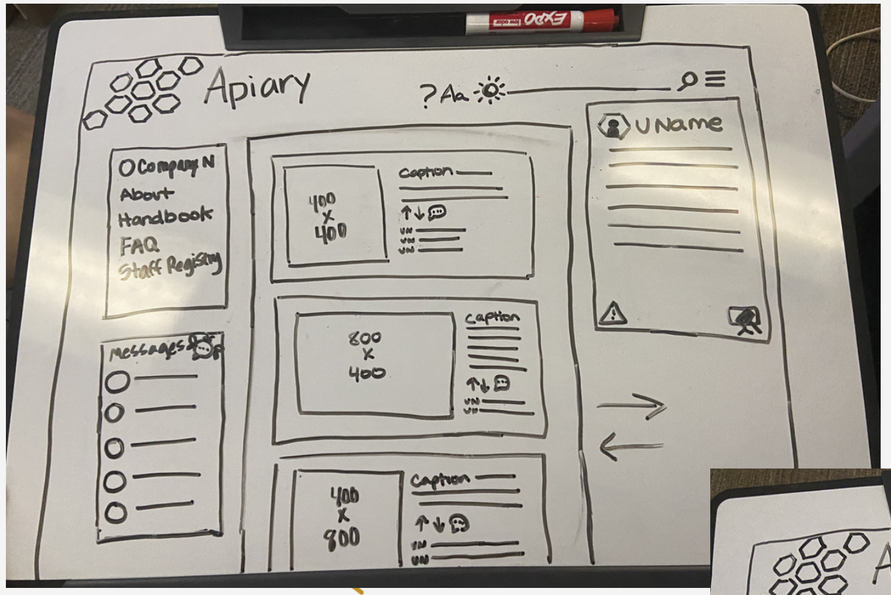
Meaningful Design Choices

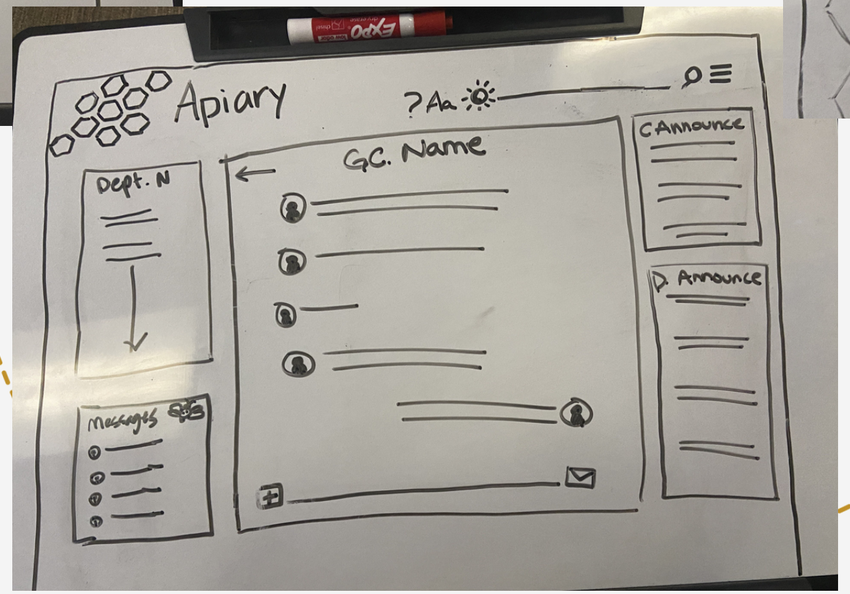


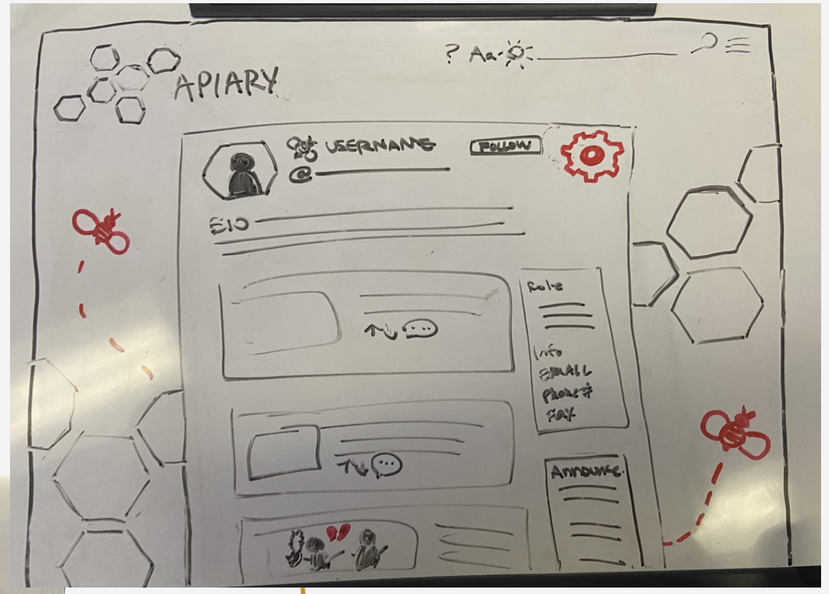
- Forced feedback for dislikes
- No following system
- Separated department feeds
- Password reset form with email implementation
- Administrative tools for individual departments
- Load more posts for improved processing speed
- Direct access to vital company information
- Searchable Staff Roster

White Board Wireframe

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Digital Wireframe



Front Page v3



Front Page v2



Front Page



Company/Admin Create Acc...



Homepage



Company Feed



Front Page v2 – 1



Profile Page



Report Form Page



Group Chat Page



Company Feed v2



Create Post Interface (post)

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Digital Wireframe



Create Post Interface (annou...



Group Chat Page v2



Company Feed v2 w/chat box



Front Page 2.3 new footer



Front Page 2.3



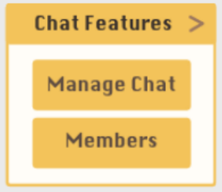
Chat Box - 1 on 1 - HR



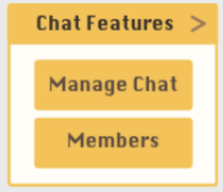
Chat Box – IT Chat



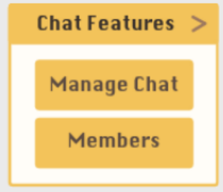
Chat Box – Finance Chat



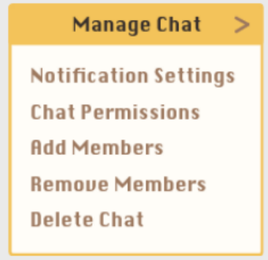
Chat Features



Chat Features – 1



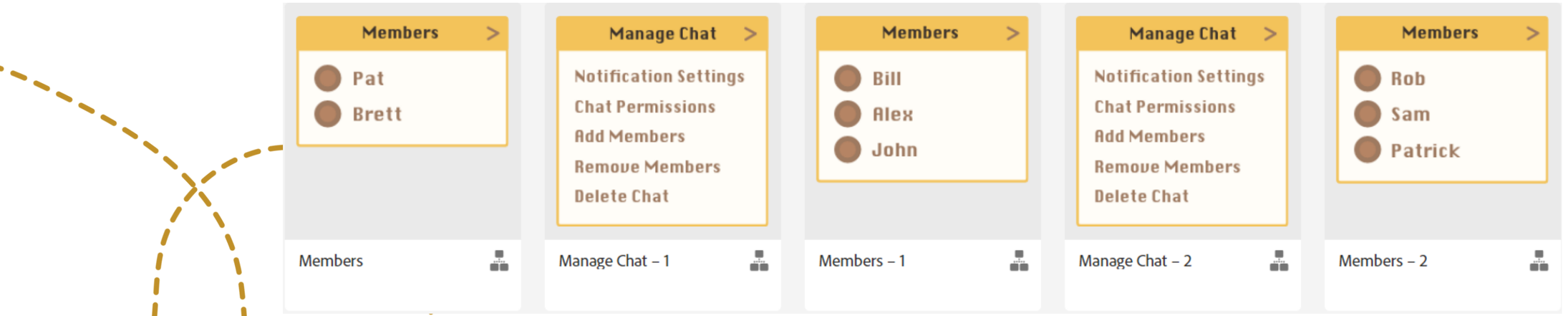
Chat Features – 2

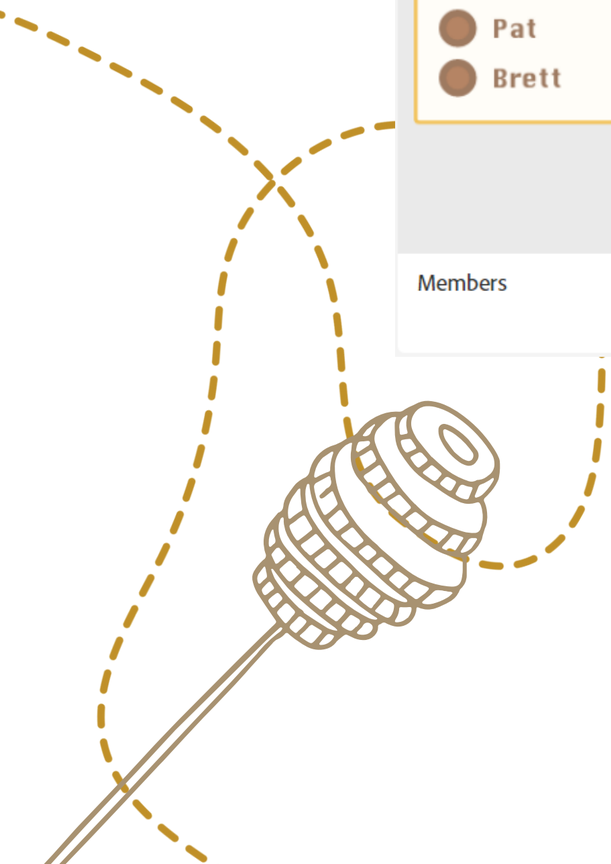


Manage Chat

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Digital Wireframe

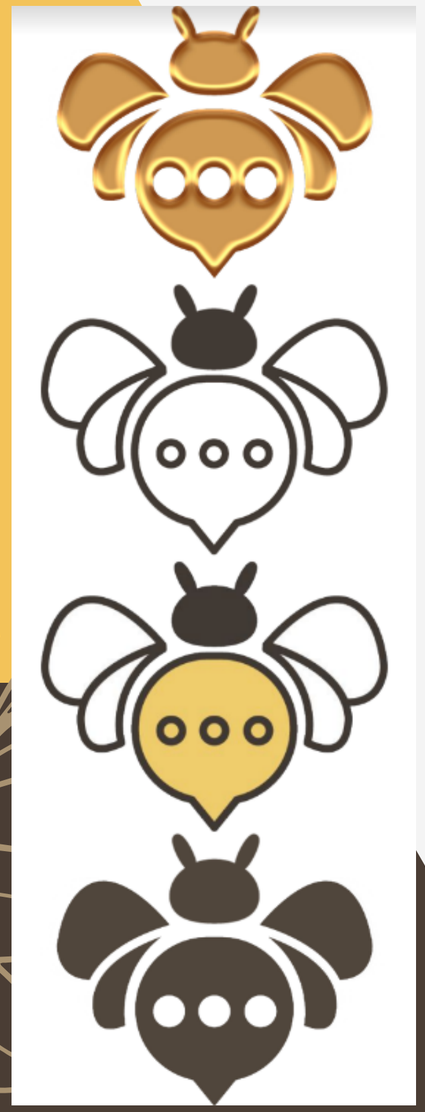




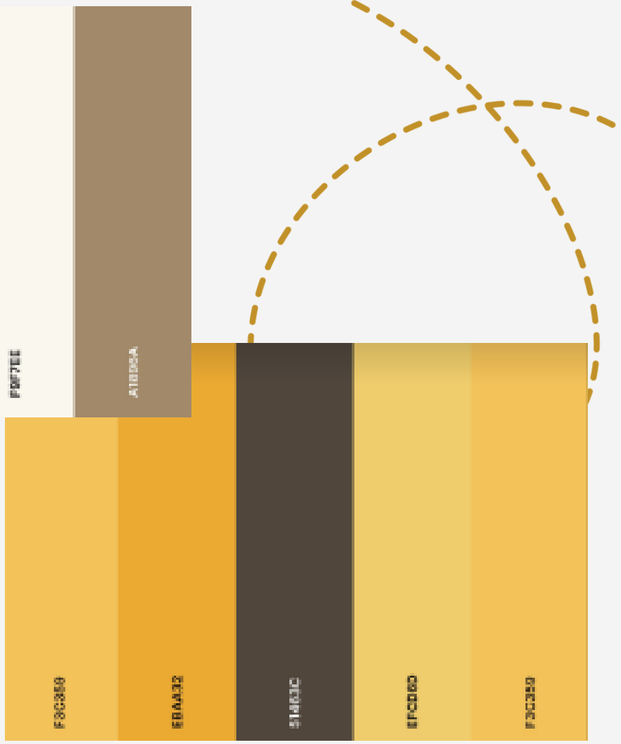
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Style Guide

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Design

- Creating the Final Product
- Databasing
- Programming
- Problem-Solving
- Peer Review
- Editing/Adjustments



Programming

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Learning Syntax

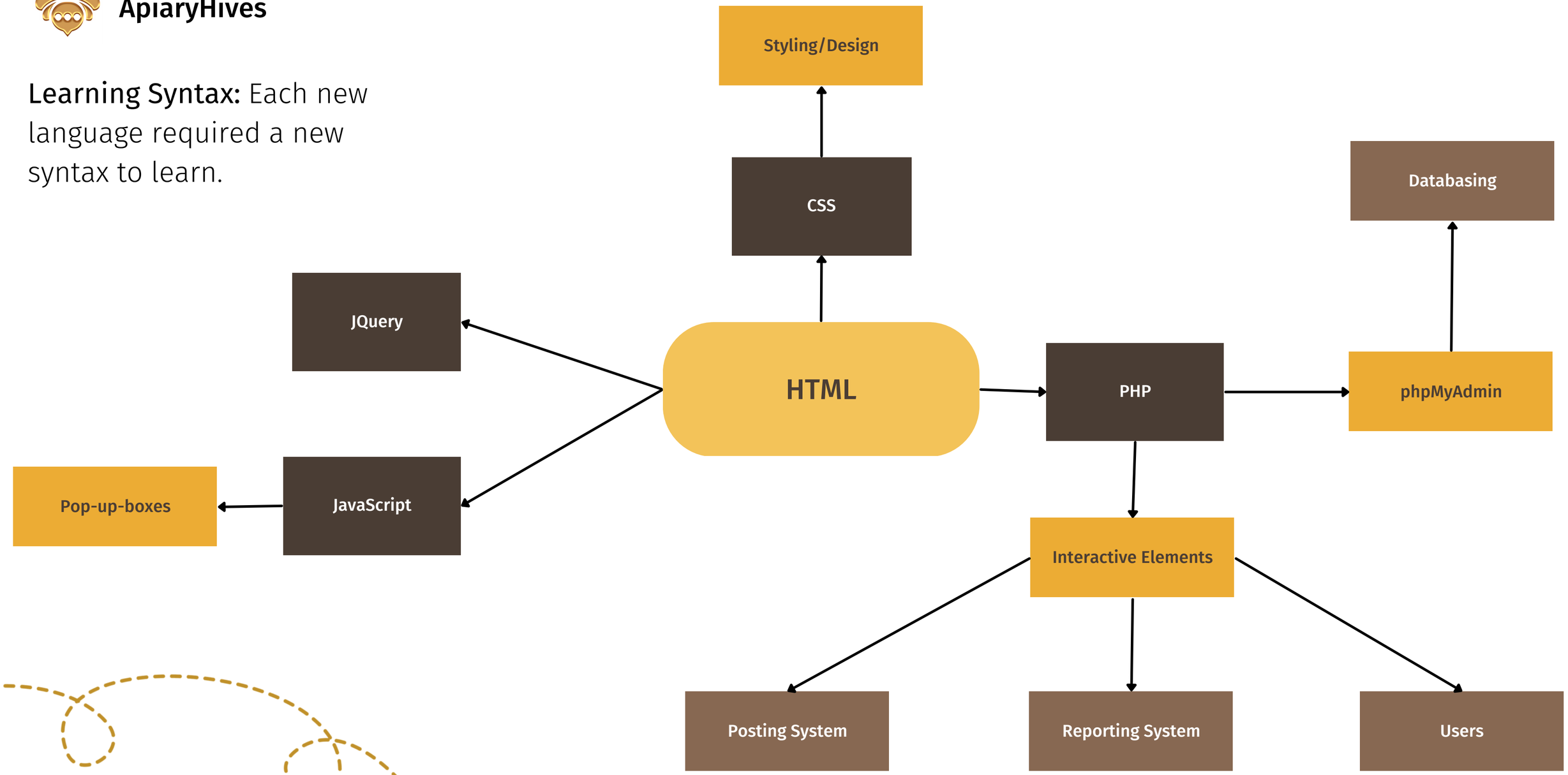
PHP Implementation

Responsive Design

Bootstrap Elements

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Learning Syntax: Each new language required a new syntax to learn.



PHP Implementation



Posting System

- Store post images, captions, department, user information, date stamp, profile picture, etc
- Display in different areas based on the department and company

---

Users

- Store full name, department, phone number, position, personal and company email, and profile information
- Allow access to different tools based on department and status
- Display information on the profile page
- Gain ability to edit all information through settings page

Reporting System

- Store user information of both submitter and suspects
- Grab details of the incident along with a date stamp
- Allow admins to record notes detailing how the situation was handled

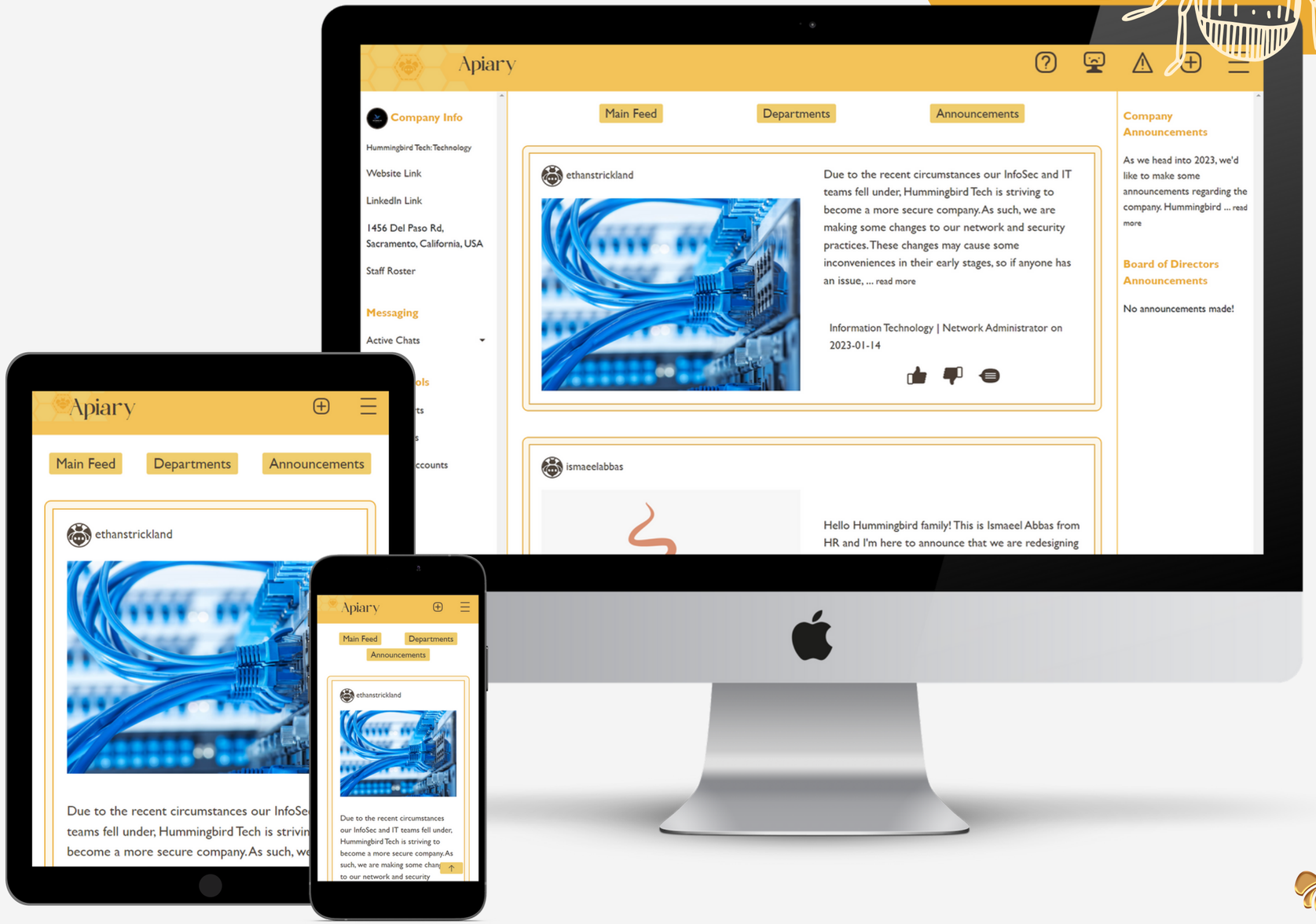
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Responsive Design



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Responsive Design



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Bootstrap Elements

- Reactstrap

- Bootstrap 4
- Bootstrapious Snippets



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Databasing



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Schema

SQL Injection Prevention

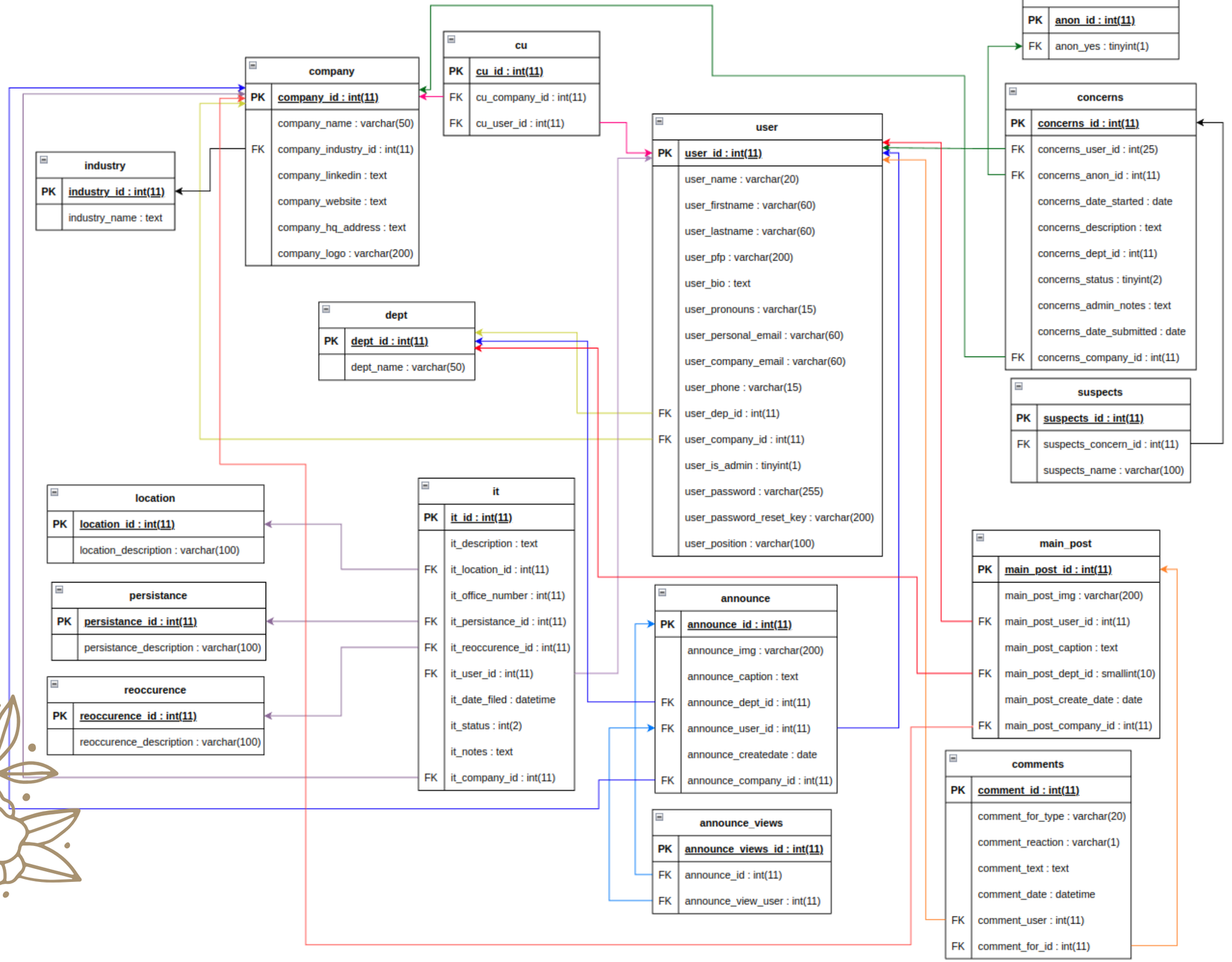
Password Hashing

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Database Schema

- Storing user data, post information, and company information
- Reporting and ticket system





SQL Injection Prevention



"INSERT INTO company (company_name, company_industry_id, company_linkedin, company_website, company_hq_address, company_logo) VALUES('$name', '$industry_id', '$linkedin', '$website', '$address', '$uploadFilename')"

File Name:)"; SELECT user_password FROM user WHERE user_id=1; --

Gain access to a user's password

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SQL Injection Prevention

***Parameterized queries don't allow this injection to occur**

```
$stmt = $connection->prepare("INSERT INTO company (company_name, company_industry_id, company_linkedin, company_website, company_hq_address, company_logo) VALUES('$name', '$industry_id', '$linkedin', '$website', '$address', '$uploadFilename')");

$stmt->bind_param("is", $name, $industry_id, $linkedin, $website, $address, $uploadFilename);

$stmt->execute();
```

Password Hashing

Create:

```
$password = "p4ssw0rd!"

password_hash($password);
```

*** "p4ssw0rd!" becomes "$2y$10$.vGA1O9wmRjrwAVXD98HNOgsNpDczlqm3Jq7KnEd1rVAGv3Fykk1a" ***

Check:

```
$input_password = "p4ssw0rd!"

$database_password = "$2y$10$.vGA1O9wmRjrwAVXD98HNOgsNpDczlqm3Jq7KnEd1rVAGv3Fykk1a";

if(password_verify($input_password, $database_password)){
    return true;
} else {
    return false;
}
```



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Visual Design

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Icons

Photography

Messaging Mockup



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Icons





Photography



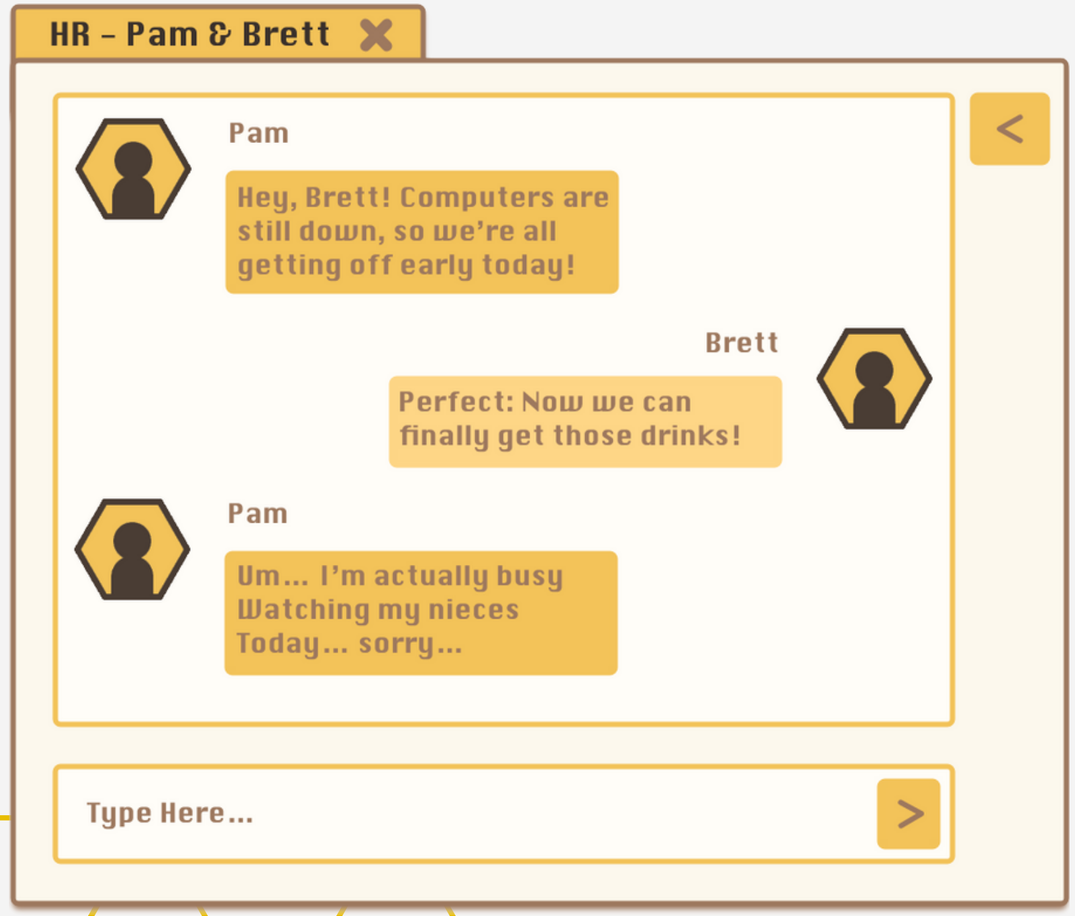


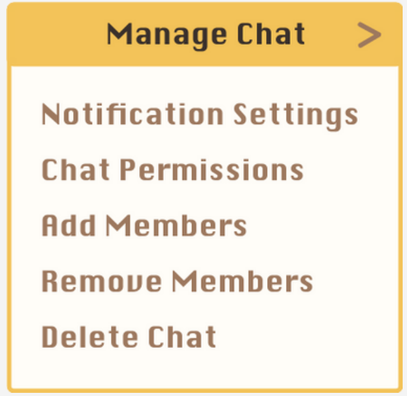




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Messaging Mockup











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Deliver

Future Plans

- Create messaging system
- Redesign landing page
- Create emailing system for employee creation, harassment reports, and it reports





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Project Challenges

- Messaging Application
  - 3rd Party Software or extensive databasing
- Posting System
  - Not feasible to complete with ReactJS
- XSS Prevention
  - html_entities() vs html_specialchars()
- Post Preview
  - Required elaborate jQuery

Future Plans

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- Create messaging application using database
- Create a post preview with jQuery
- Improve commenting interface
- Improve landing page interface
- Create search bar for posts
- Implement hashtaging system



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Thank you!

From the creators of ApiaryHives

