Community Health Connect

CSIT 337 02

Ruby Villalona

Work Logs

Location:

- Home with desktop and laptop with tool needed available

Schedule:

- **Area:** Home with my desktop and laptop where all the tools I need are available

- **Primary Work Session:** Tuesdays, 7:00 PM – 10:30 PM

- **Secondary Work Session:** Fridays,, 8:00 PM – 10:30 PM
-

Task	Action Items	Status
Project idea selection, requirements review	Define project scope	Completed
Database schema design	Create SQL tables	Completed
UI layout, Bootstrap styling	Implement homepage & search	Completed
Admin authentication, CRUD	Finish admin dashboard	Completed
PDO conversion, DB user security	Replace root with PDO user	Completed
Final testing & debugging	Prepare final submission	Completed

Contribution Sheet

Team Member	Contributions	Effort %
Ruby Villalona	Project planning, database design, SQL scripting, PHP backend, PDO integration, admin authentication, UI/UX design, testing, debugging, documentation	100%

Reflection

Since I worked on this project on my own, time management and staying organized were really important. Overall, things went well, but I could have improved my workflow by setting stricter deadlines for myself earlier in the process. That would have helped me manage my time better across different parts of the project.

Looking back, I should have spent more time improving the content for the Hotlines and Search sections. I ended up focusing a lot on fixing bugs and adding new features to make sure the website worked properly, which left less time for refining the information itself. In the future, I would try to balance building features and improving content more evenly.

Satisfaction

Score: 7.5 / 10

Overall, I am satisfied with how the project turned out. Most milestones were completed on schedule, though a few were finished later than expected due to working solo. One of the main challenges was debugging database authentication issues, but these were resolved through testing, research, and reviewing documentation. Despite these challenges, the project met its goals and all core requirements were successfully completed.

Project Summary

Community Health Connect is a web application designed to help individuals easily locate local health and social support services in and around the Montclair area. The goal of this project is to create an easy-to-navigate platform that brings together community resources that are often difficult to find in one place.

The mission of Community Health Connect is to connect community members with essential services that support overall health and well-being. The platform focuses on providing access to a wide range of resources, including:

- Health clinics and primary care centers
- Food pantries and nutrition programs
- Mental health services and counseling
- Emergency shelters and housing assistance
- Women's health resources
- Support groups (such as substance use recovery, domestic violence support, and grief counseling)

Core features of the website include the ability to search for resources by ZIP code or city, category-based filtering(such as mental health, food insecurity, and housing), and a dedicated Hotlines section that provides quick access to local NJ/NY and national emergency hotlines. By organizing these resources into a centralized and accessible platform, Community Health Connect aims to improve access to support services and strengthen community well-being.

Table of Contents

Public Pages

1. **Home Page** (index.php)
   ○ Introduction to Community Health Connect
   ○ Overview of website purpose and navigation
2. **Search Resources** (search_resources.php)
   ○ Search community health resources
   ○ Filter by city, ZIP code, and category
   ○ View list of matching resources
3. **Resource Detail Page** (resource_detail.php)
   ○ Displays full details for a selected resource
   ○ Includes description and contact information
4. **Emergency / Hotlines** (emergency.php)
   ○ Lists emergency and crisis hotline information
5. **About Page** (about.php)
   ○ Describes the mission and purpose of the project

Administrator Pages

6. **Admin Login** (admin_login.php)
   ○ Secure login for administrators
7. **Admin Dashboard** (admin_dashboard.php)
   ○ Displays summary statistics (e.g., total categories/resources)
8. **Manage Resources** (manage_resources.php)
   ○ View all resources
   ○ Access edit and delete actions
9. **Add Resource** (add_resource.php)
   ○ Form to add a new community resource
10. **Edit Resource** (edit_resource.php)
    ○ Update existing resource information
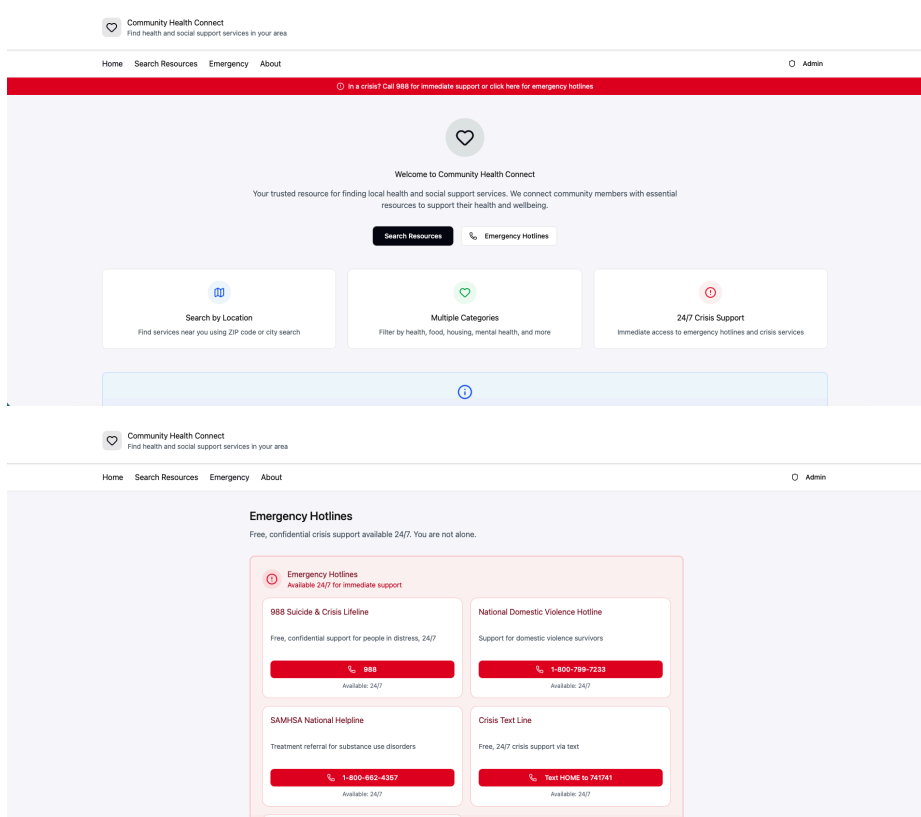11. **Logout** (logout.php)
    ○ Ends admin session securely

Shared / Supporting Files

● header.php – Navigation bar and page header
● footer.php – Page footer
● config.php – Database connection using PDO
● styles.css – Custom CSS styling
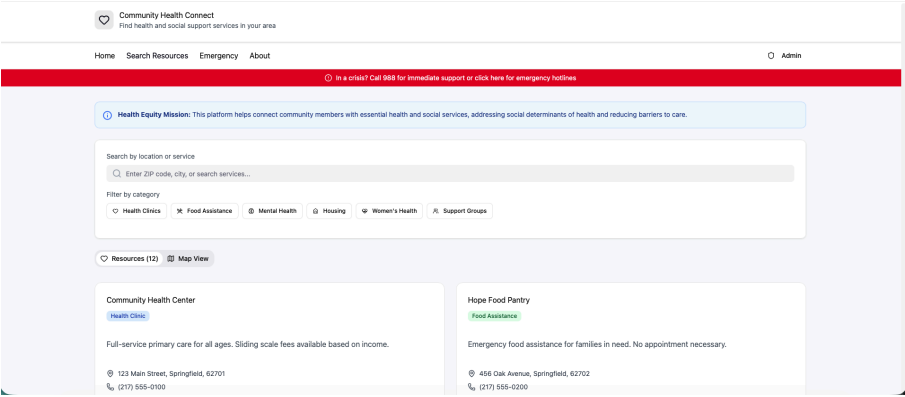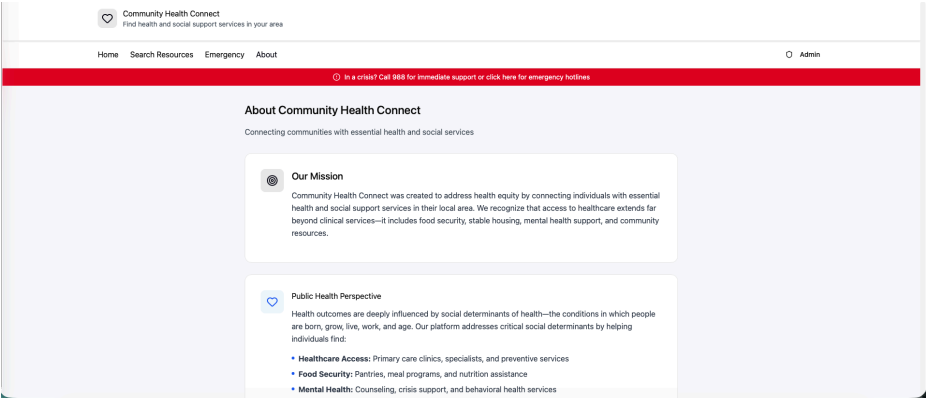● community_health_db.sql – Database schema and user setup

UI/UX Wireframes

Views - Original Design

- **1. index.php – Home Page**

- **Purpose:** Introduces the website and directs users to search for community health resources.

- **2. search_resources.php – Search + Filter Page**

- **Purpose:** Allows users to search by ZIP code or city and filter by category. Displays results in a list

- **3. resource_detail.php – Resource Detail Page**

- **Purpose:** Displays detailed information for a selected resource (address, services, hours, etc.).

- **4. hotlines.php – Hotlines Page**

- **Purpose:** Shows clearly labeled crisis hotlines for immediate help.

- **5. about.php – About Page**

- **Purpose:** Describes the public health purpose and motivation behind the website.

- **Wireframes (used Figma)**

In a crisis? Call 988 for immediate support or click here for emergency hotlines

About Community Health Connect

Connecting communities with essential health and social services

Our Mission

Community Health Connect was created to address health equity by connecting individuals with essential health and social support services in their local area. We recognize that access to healthcare extends far beyond clinical services—it includes food security, stable housing, mental health support, and community resources.

Public Health Perspective

Health outcomes are deeply influenced by social determinants of health—the conditions in which people are born, grow, live, work, and age. Our platform addresses critical social determinants by helping individuals find:

- **Healthcare Access:** Primary care clinics, specialists, and preventive services
- **Food Security:** Pantries, meal programs, and nutrition assistance
- **Mental Health:** Counseling, crisis support, and behavioral health services

---

In a crisis? Call 988 for immediate support or click here for emergency hotlines

Health Equity Mission: This platform helps connect community members with essential health and social services, addressing social determinants of health and reducing barriers to care.

Search by location or service

Enter ZIP code, city, or search services...

Filter by category

Health Clinics   Food Assistance   Mental Health   Housing   Women's Health   Support Groups

Resources (12)   Map View

Community Health Center

Health Clinic

Full-service primary care for all ages. Sliding scale fees available based on income.

123 Main Street, Springfield, 62701
(217) 555-0100

Hope Food Pantry

Food Assistance

Emergency food assistance for families in need. No appointment necessary.

456 Oak Avenue, Springfield, 62702
(217) 555-0200

User Manual

1. Introduction

Community Health Connect is a web-based application designed to help users quickly locate community health resources, support services, and emergency hotlines. The website provides a searchable public interface for users and a secure admin interface for managing resources.

2. Public User Features

2.1 Homepage & Navigation

- Users begin on the homepage, which introduces the purpose of the website.
- A navigation bar allows access to:
    - Home
    - Search Resources
    - Emergency / Hotlines
    - About

2.2 Search Resources

- Users can search community resources using:
    - City
    - ZIP Code
    - Category
- Filters may be used individually or together.
- Search results display matching resources with basic information.
- Clicking a resource opens a detailed view.

2.3 Resource Detail Page

- Displays full resource information, including:
    - Description
    - Phone number
    - Website
    - Address (if available)

2.4 Emergency / Hotlines

- Provides a dedicated page listing emergency and crisis hotline information.
- Hotlines are clearly displayed for quick access.

2.5 About Page

- Describes the mission and purpose of the project.
- Explains the motivation behind creating the website.

3. Administrator Features

3.1 Admin Login

- Admins log in using a username and password.
- Admin-only pages are protected from unauthorized access.

3.2 Admin Dashboard

- Displays summary information such as:
  - Total number of categories
  - Total number of resources
- Provides quick access to management tools.

3.3 Manage Resources

- Admins can:
  - Add new community resources
  - Edit existing resources
  - Delete resources
- Deleted resources are immediately removed from public search results.

3.4 Logout

- Admins can log out to securely end their session.

4. Security and Data Handling

- Admin access is controlled using PHP sessions.
- Database connections use PDO with a non-root MySQL user.
- Public users have read-only access to data.

5. Summary

Community Health Connect offers a simple and effective way for users to find community health services while allowing administrators to manage content securely. The website meets project requirements by combining a functional user interface, secure database interaction, and a complete admin management system.

Source Code
Due to file size and structure:

Source code files are provided as attachments.
(See attached project folder.)

Database Schema

Table: admins

Field	Type	Key	Null	Notes
id	INT	PK	NO	Auto-increment primary key
username	VARCHAR(50)	UNIQUE	NO	Admin login username
password	VARCHAR(255)		NO	Stored password (plain for demo or hashed if implemented)

Table: categories

Field	Type	Key	Null	Notes
id	INT	PK	NO	Auto-increment primary key
name	VARCHAR(100)	UNIQUE	NO	Category name (e.g., Mental Health, Housing)

Table: resources

Field	Type	Key	Null	Notes
id	INT	PK	NO	Auto-increment primary key

name	VARCHAR(150)		NO	Resource/service name
description	TEXT		YES	Summary of service
phone	VARCHAR(30)		YES	Phone number
website	VARCHAR(255)		YES	Website URL
address	VARCHAR(255)		YES	Street address (if applicable)
city	VARCHAR(100)		YES	City
state	VARCHAR(20)		YES	State (NJ/NY/etc.)
zip	VARCHAR(15)		YES	Zip code
category_id	INT	FK	NO	References categories(id)

-- ===

-- **Database: Community Health Connect**

-- ===

CREATE DATABASE IF NOT EXISTS community_health;

USE community_health;

-- ===

-- Create Tables

-- ===

```sql
CREATE TABLE admins (
    id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL
);

CREATE TABLE categories (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL UNIQUE
);

CREATE TABLE resources (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(150) NOT NULL,
    description TEXT,
    phone VARCHAR(30),
    website VARCHAR(255),
    address VARCHAR(255),
    city VARCHAR(100),
    state VARCHAR(20),
    zip VARCHAR(15),
    category_id INT NOT NULL,
    FOREIGN KEY (category_id)
        REFERENCES categories(id)
```

```sql
        ON DELETE CASCADE

);


-- =========================================

-- Insert Sample Data

-- =========================================


INSERT INTO admins (username, password)

VALUES ('admin', 'admin123');


INSERT INTO categories (name) VALUES

('Mental Health'),

('Housing'),

('Food Assistance'),

('Emergency Services');


INSERT INTO resources

(name, description, phone, website, address, city, state, zip, category_id)

VALUES

('National Suicide Prevention Lifeline',

 '24/7 confidential support for people in distress',

 '988',

 'https://988lifeline.org',

 NULL,

 NULL,

 'US',

 NULL,
```

```
      1),


('NJ 211',

 'Connects individuals to essential community services',

 '211',

 'https://www.nj211.org',

 NULL,

 NULL,

 'NJ',

 NULL,

 4);



-- ==========================================

-- Create Database User (Non-root)

-- ==========================================



CREATE USER IF NOT EXISTS 'chc_user'@'localhost'

IDENTIFIED BY 'chc_pass';



-- ==========================================

-- Grant Privileges

-- ==========================================



GRANT SELECT, INSERT, UPDATE, DELETE

ON community_health.*

TO 'chc_user'@'localhost';
```

FLUSH PRIVILEGES;

Test 1: Homepage Load and Navigation
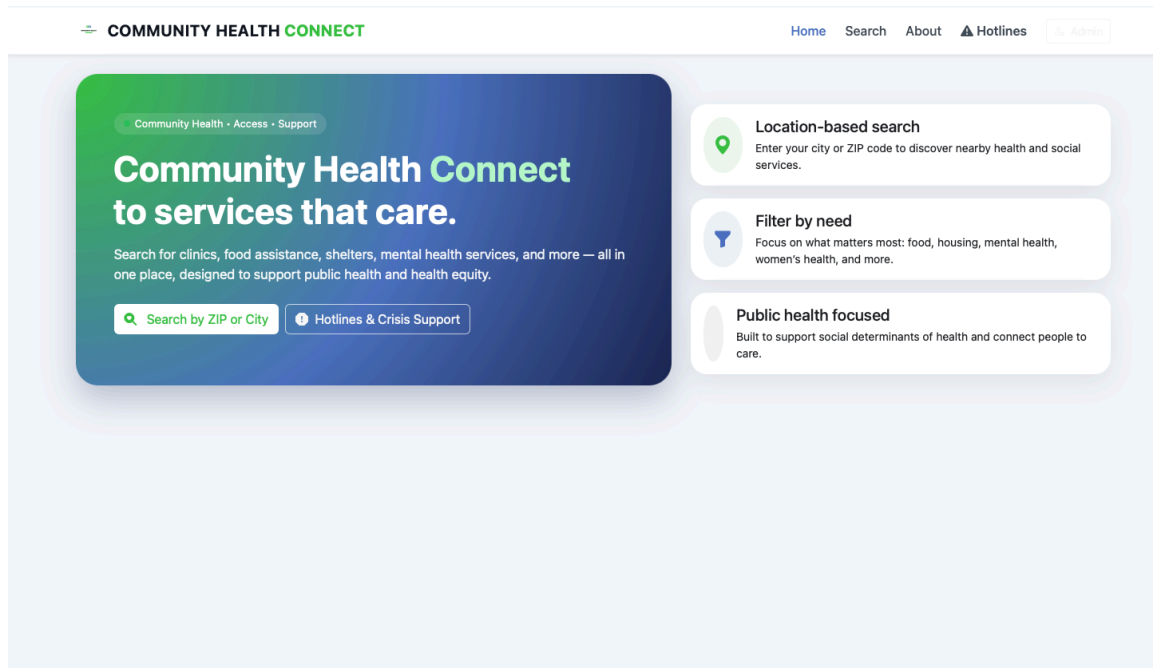
- The homepage loads successfully with branding, navigation menu, and call-to-action buttons.
- Navigation links to Search, Hotlines, and About are clearly visible and functional.

Result: Homepage renders correctly and serves as the main entry point for users.

Test 2: Search Page Load
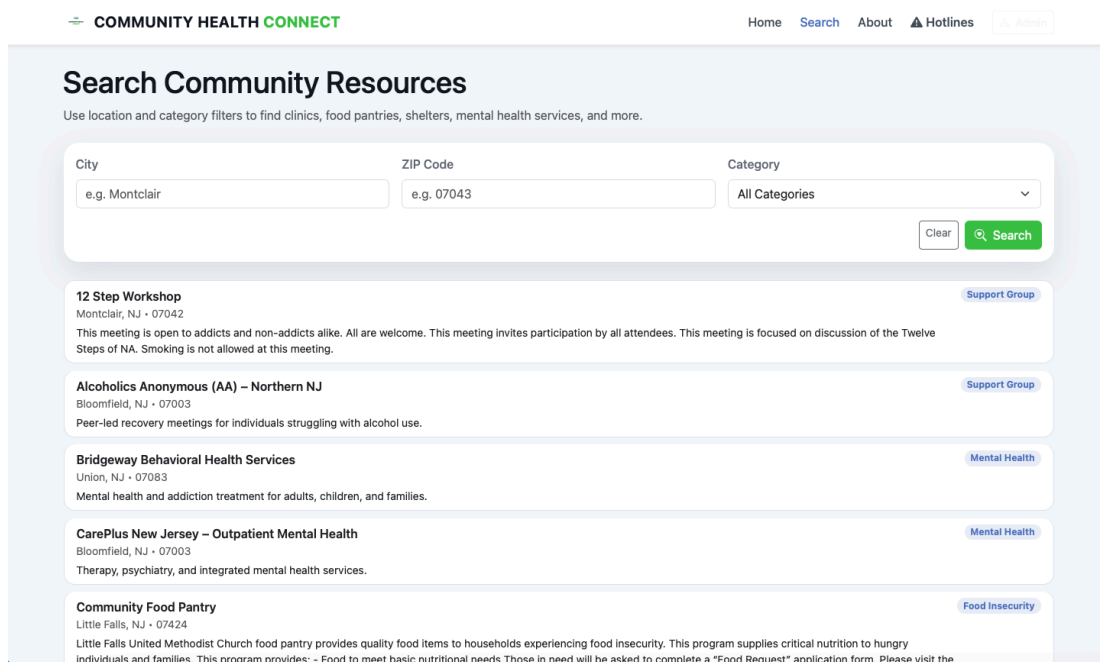
- The search page loads with filters for City, ZIP Code, and Category.
- The Clear and Search buttons are visible and usable.

Result: Search interface loads correctly and is ready for user input.

Test 3: Category Dropdown Filter
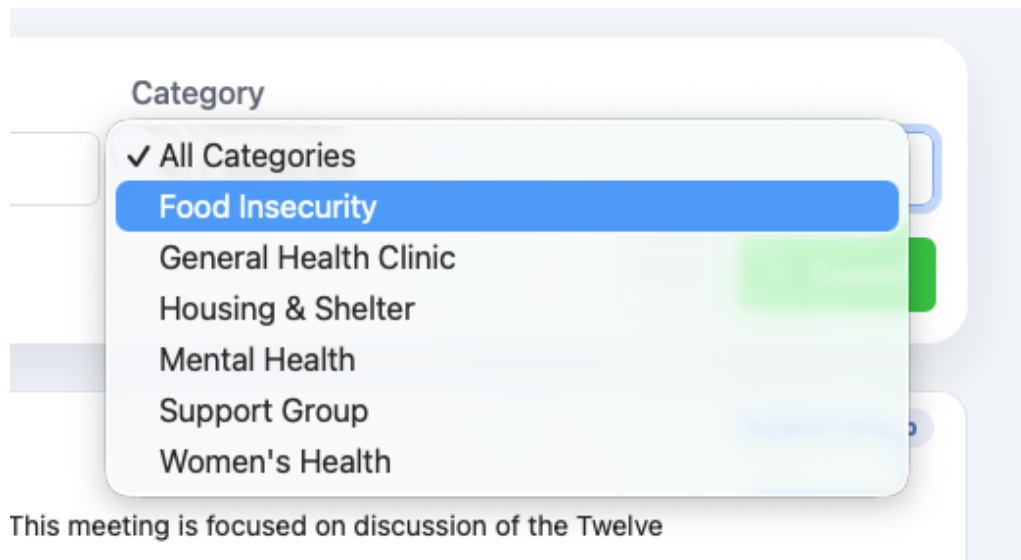
- Category dropdown displays distinct categories (e.g., Food Insecurity, Mental Health, Housing & Shelter).
- No duplicate category values appear.

Result: Category data is correctly retrieved from the database and displayed cleanly.

Test 4: Search Results Display
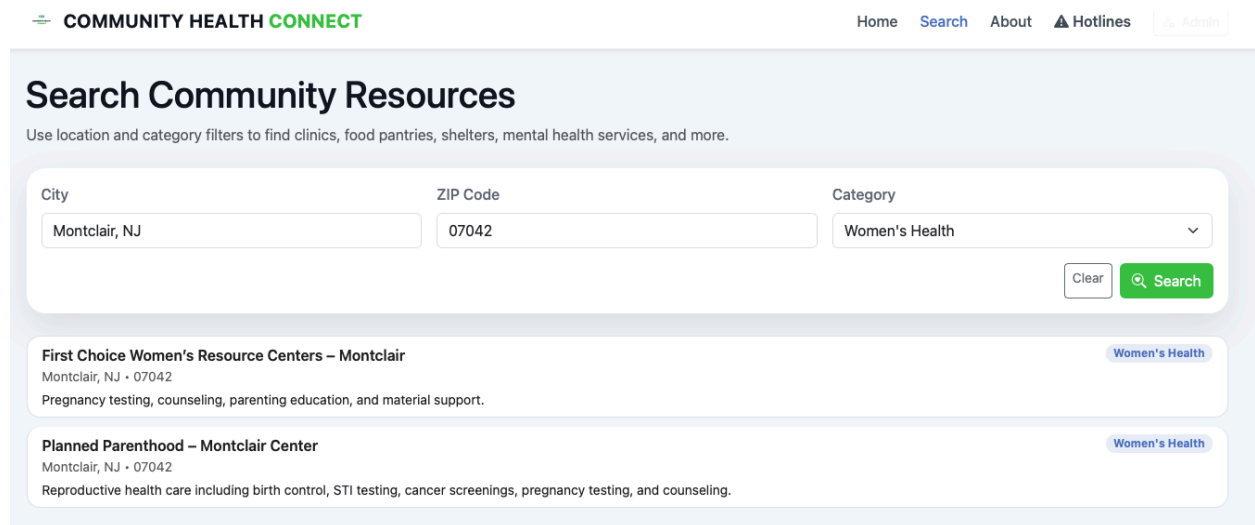
- Resources matching the search criteria are displayed.
- Each result shows:
    - Resource name
    - City and ZIP code
    - Short description
    - Category badge

Result: Search filters correctly query the database and return accurate results.

Test 5: Resource Detail View

Community Food Pantry

Food Insecurity

Address
139 Main Street
Little Falls, NJ , 07424

Contact
☎ **973-256-0993**
🌐 **Website**

Hours
Tuesday, Wednesday, Thursday, Friday 10:30am to 12:30pm

Description
Little Falls United Methodist Church food pantry provides quality food items to households experiencing food insecurity. This program supplies critical nutrition to hungry individuals and families.

This program provides:

- Food to meet basic nutritional needs

Those in need will be asked to complete a "Food Request" application form. Please visit the church office to fill out the application. Donations are limited to two visits each month per family.

← Back to search

- Clicking a resource opens a detailed view.
- Full information is displayed, including:
   - Address
   - Hours
   - Description
   - Contact information
- Navigation allows users to return to the search page.

Result: Dynamic resource detail pages function correctly using database IDs.

Test 6: Emergency & Hotlines Page

Emergency Hotlines & Crisis Support
Confidential support available 24/7.

Search hotlines   All States

National (26)   State (26)

988 Suicide & Crisis Lifeline

Free, confidential support for people in distress, prevention and crisis resources.

☎ 988

💬 Text 988

🌐 Visit Website

Autism Response Team (Autism Speaks)

Information and support for individuals with autism and families

☎ 1-888-288-4762

🌐 Visit Website

Childhelp National Child Abuse Hotline

Crisis intervention for child abuse and neglect

☎ 1-800-4-A-CHILD

🌐 Visit Website

Crisis Text Line

Free, 24/7 crisis support via text message

💬 Text HOME to 741741

🌐 Visit Website

DeafLEAD National Crisis Line

Crisis intervention for Deaf and Hard of Hearing individuals via ASL

☎ 1-321-800-3323

🌐 Visit Website

Disability Rights Hotline

Advocacy and legal resources for people with disabilities
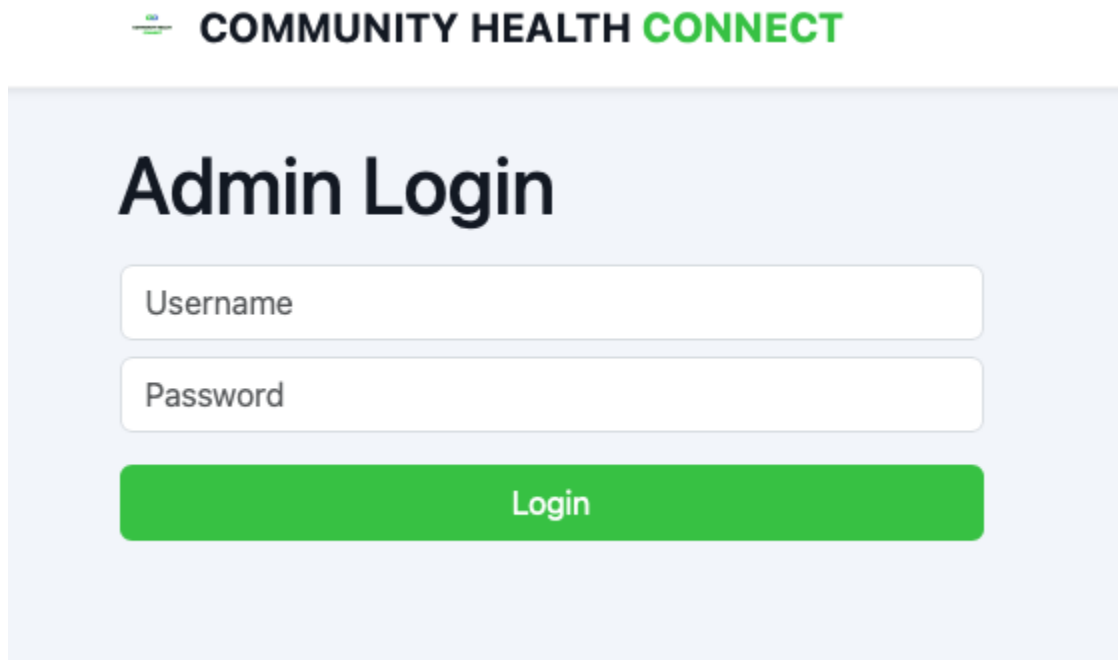
☎ 1-202-408-9514

🌐 Visit Website

- Hotlines are displayed in a clear card-based layout.
- Each card includes:
  - Hotline name
  - Description
  - Phone number
  - Website link (if available)
- Filters for National and State hotlines are visible.

Result: Emergency information is easily accessible and clearly presented.
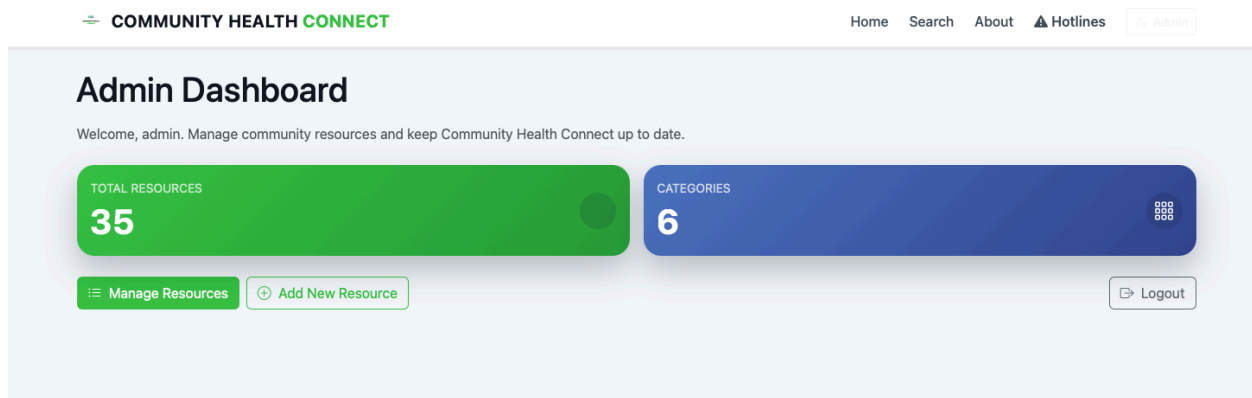
Test 7: Admin Login

- Admin login page loads with username and password fields.
- Login button is clearly visible.

Result: Admin authentication interface loads correctly.

Test 8: Admin Dashboard

- Dashboard displays summary statistics:
    - Total Resources
    - Total Categories
- Buttons for managing and adding resources are available.

Result: Admin dashboard successfully retrieves and displays database statistics.

Test 9: Manage Resources

- Admin can view all resources in a table format.
- Each row displays:
    - Name
    - City
    - ZIP
    - Category
    - Action buttons (Edit / Delete)

Result: Admin can view and manage all resource records.

Test 10: Edit Resource

COMMUNITY HEALTH CONNECT   Home   Search   About   ⚠ Hotlines   Admin

Edit Resource

St. Lucy's Emergency Shelter (Women & Children)

619 Grove

Jersey City, NJ

07102

Housing & Shelter ⌄

(201) 656-7201

https://ccannj.org/

24/7

Emergency shelter for women and children experiencing homelessness, with meals and supportive services.

Update

- Existing resource data is pre-filled in the form.
- Admin can update resource information and save changes.

Result: Update functionality works correctly and modifies database records.

Test 11: Add Resource

Add Resource

Name

Address

City

ZIP

Food Insecurity ⌄

Phone

Website

Hours

Description

Save

- Admin can enter new resource details.
- Required fields and category selection are available.
- Saving the form adds the resource to the database.

Result: Create functionality works and new resources appear in admin and public views.

Test 12: Delete Resource

- Admin can delete a resource using the Delete button.
- Deleted resources no longer appear in the admin list or public search results.

Result: Delete functionality works and updates the database correctly.

Test 13: Emergency Hotlines Search – Keyword Filtering

- The search input allows users to type keywords related to hotline names or descriptions.
- As the user types, the page automatically updates to display only matching hotline cards.

Result:
The search bar successfully filters hotline results based on user input, allowing quick access to specific crisis resources.

Test 14: Emergency Hotlines Search – State Filtering
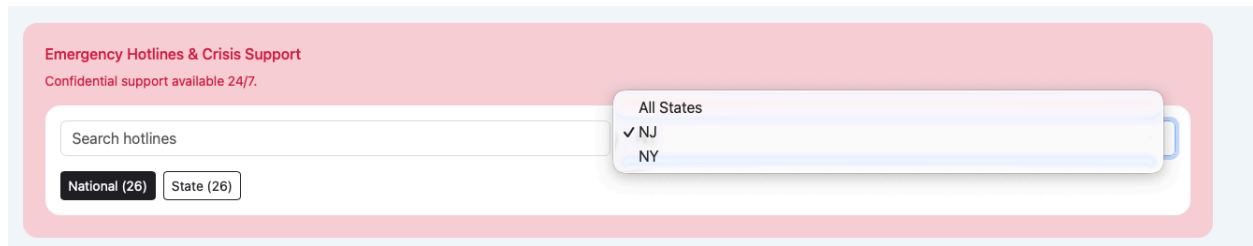
- Users can filter state-level hotlines by selecting a state from the dropdown.
- Only hotlines relevant to the selected state are displayed.

Result:
State-based filtering works correctly and updates results dynamically.

Test 15: Hotline Availability Badge UI Update
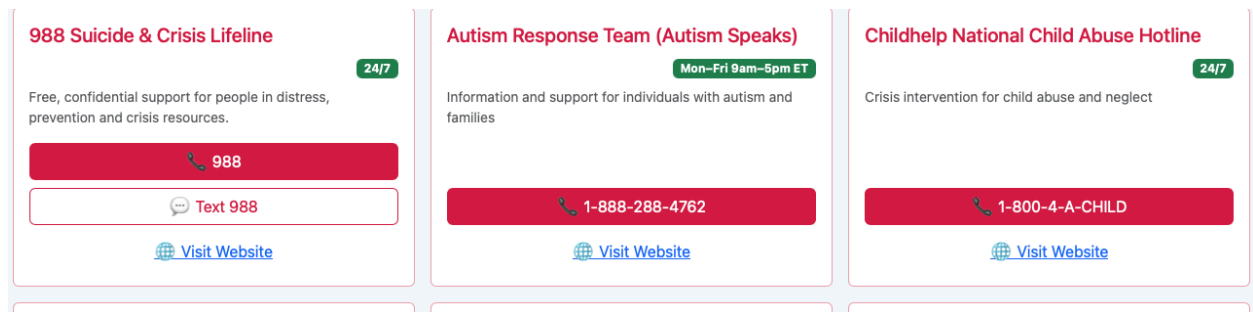
- Hotline availability (e.g., "24/7") is displayed using a green badge.
- The color change improves visibility and indicates availability status clearly.

Result:
UI enhancement renders correctly and improves readability and user experience without affecting functionality.

Test 17: About Page Load and Content Verification
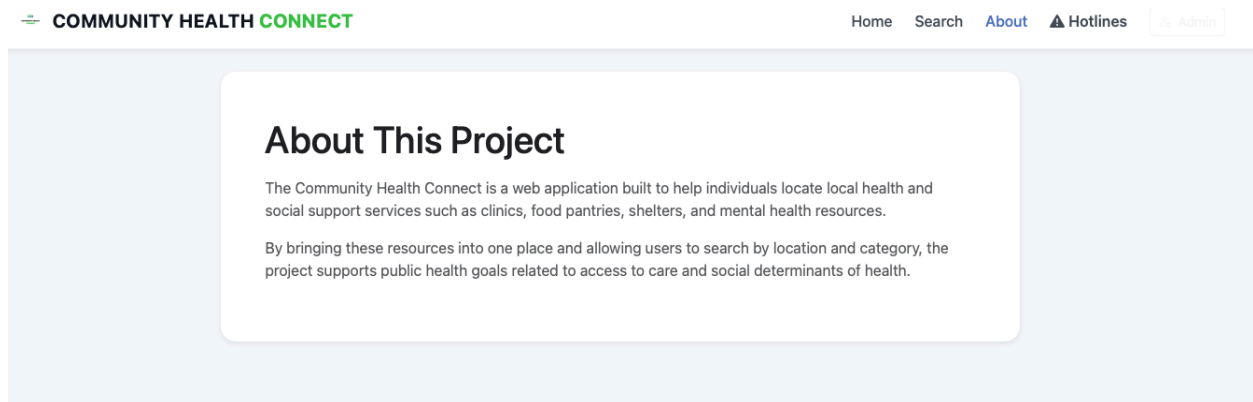
**Test 17: About Page Load and Content Verification**

- The About page loads successfully from the navigation bar.

- The page displays a clear description of the project's purpose and mission.
- Content explains how the website supports public health goals and access to care.
- Layout is clean, readable, and consistent with the rest of the site's UI.

Result:
The About page renders correctly and provides users with clear contextual information about the purpose and goals of the Community Health Connect application.

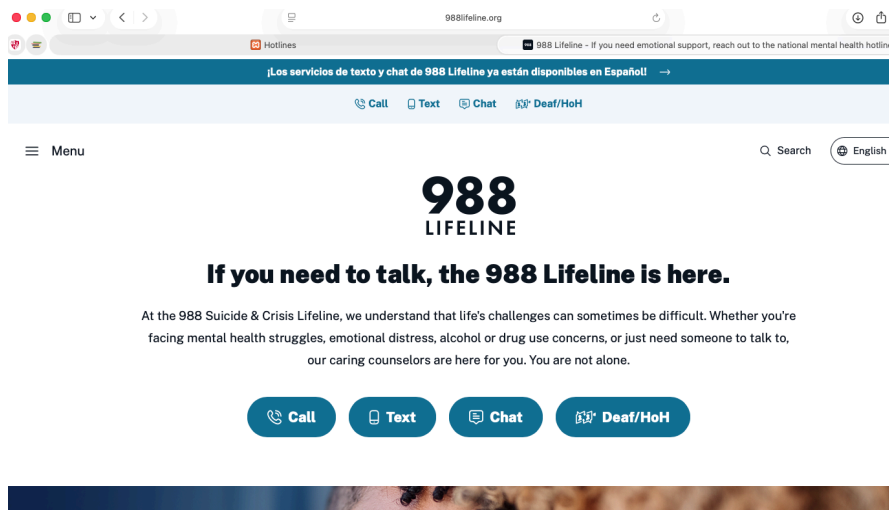**Test 19: Text Message Button Functionality**
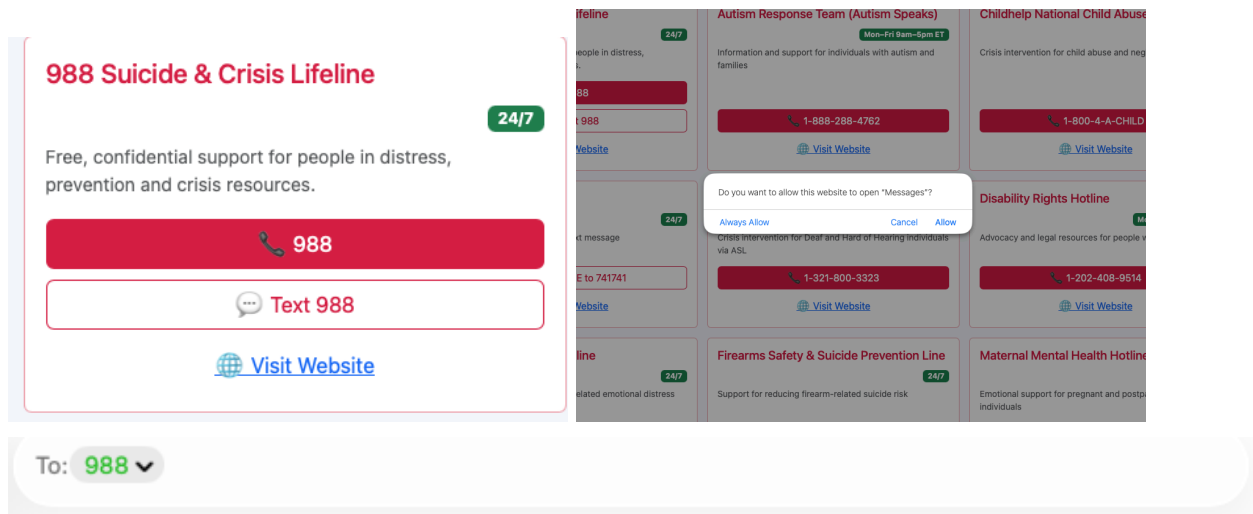
- Clicking the **Text 988** button opens the device's messaging application.
- The button uses an sms: link to allow users to text the hotline directly.

Result:
The text message button works correctly and enables quick text-based crisis support.
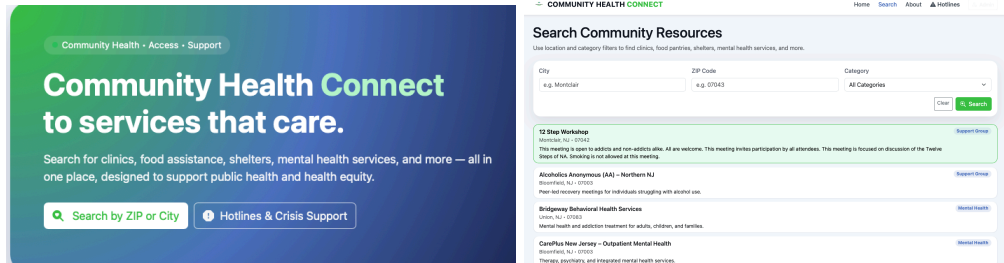
Test 20: External Website Link Functionality

- Clicking the Visit Website link opens the official hotline website in a new browser tab.
- The link uses target="_blank" to avoid navigating users away from the site.

Result:

The external website link functions correctly and provides additional hotline information.

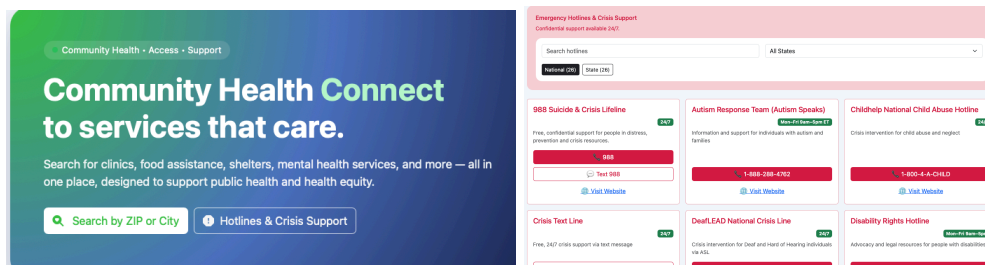## Test 21: "Search by ZIP or City" Button Navigation

- Clicking the Search by ZIP or City button redirects the user to the Search Resources page.
- The button provides a clear entry point for users looking to find community services.

Result:

The button functions correctly and navigates users to the resource search page.

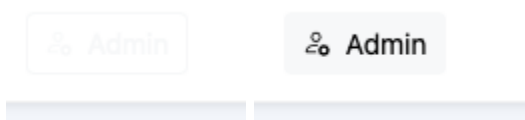## Test 22: "Hotlines & Crisis Support" Button Navigation

- Clicking the Hotlines & Crisis Support button redirects the user to the Emergency Hotlines page.
- This provides fast access to crisis and emergency support resources.

Result:

The button functions correctly and navigates users to the hotlines page.

Test 23: Admin Button Hover State

- When the mouse is not hovering over the Admin button, the text appears in a lighter color.

- When the mouse hovers over the Admin button, the text color changes from white to black.
- This visual change indicates that the element is interactive and clickable.

Result:

The hover effect works correctly, providing clear visual feedback to the user and improving navigation usability.

Youtube Link

https://youtu.be/3kUpJIUgoJs