

# SoCalHikes

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The background of the image is a black and white topographic map, featuring numerous contour lines of varying thickness and curvature that represent elevation changes. A large, white rectangular box with a thin black border is centered on the page, containing the text.

**What is  
SoCalHikes?**

# Hiking App

Software for organizing, tracking, and ranking hikers and trails in the SoCal Area

- Profile
  - Users can log in & submit hike completions
    - Completions add to SCH Score
- Trail Explorer
  - Trails can be browsed with a map & details
    - Details include difficulty rating related to score
- Leaderboard
  - Top scoring Hikers are displayed on the SCH Rankings

# Code

## Backend

- MySQL
  - MySQLWorkbench
  - SQL Server through XAMPP

## Front/Server

- PHP
  - PHP functions to connect to MySQL for data
  - PHP Server through XAMPP
- HTML/CSS
  - Web Display & Style

# MySQL

```
7  -- This is the basic trail table, this will hold the main information regarding each specific trail.
8  • DROP TABLE IF EXISTS TRAILS;
9  • CREATE TABLE TRAILS (
10     trailID int(5) serial default value,
11     trail_name varchar(50) NOT NULL,
12     zipcode int(5) NOT NULL,
13     city varchar(35) NOT NULL,
14     -- start_lat decimal(8, 6) NOT NULL,
15     -- start_long decimal(9, 6) NOT NULL,
16     -- end_lat decimal (8, 6),
17     -- end_long decimal (9, 6),
18     difficulty int(1) ,
19     completion_time int(4),
20     maplink varchar(500),
21     PRIMARY KEY (trailID)
22
23 );
24 • ALTER TABLE TRAILS ADD CONSTRAINT Max_Difficulty CHECK (difficulty <= 3);
25
26 • DROP TABLE IF EXISTS USERS;
27 • CREATE TABLE USERS (
28     userID int(10) serial default value,
29     username varchar(15) NOT NULL UNIQUE,
30     passwd varchar(60) NOT NULL,
31     birthday date NOT NULL,
32     sch_score int(5) DEFAULT 0,
33     trail_count int(3) DEFAULT 0,
34     PRIMARY KEY (UserID)
```

# PHP

```
1 |
2 | <?php
3 |
4 | if(session_status() != PHP_SESSION_ACTIVE) session_start();
5 |
6 | $link = mysqli_connect('127.0.0.1', 'root', '');
7 |
8 | if ($link->connect_error) {
9 |     die('Could not connect: ' . $link->connect_error);
10 | }
11 |
12 | $dbName = "SoCalHikes";
13 |
14 | mysqli_select_db($link, $dbName) or die("Unable to select database $dbName");
15 | ?>
16 |
```

```
1 | <?php
2 | if(session_status() != PHP_SESSION_ACTIVE) session_start();
3 |
4 | if (!isset($_SESSION['userID'])){
5 |     header("Location: ../log_in.php");
6 | }
7 |
8 |
9 | include('connect.php');
10 |
11 |
12 | $userID = $_SESSION["userID"];
13 | $trailID = $_GET['trailid'];
14 |
15 | $sql = "INSERT INTO COMPLETED_TRAILS (userID, trailID) VALUES ('$userID', '$trailID')";
16 |
17 | if ($link->query($sql) == TRUE) {
18 |     echo "Hike Marked";
19 |     header("Location: ../hike_list.php");
20 | } else {
21 |     echo "Error: " . $sql . "<br>" . $link->error;
22 | }
23 |
24 |
25 | $link->close();
26 |
27 | header("Location: ../index.php");
28 |
29 | ?>
```

# HTML/CSS

```
>>

<html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="CSS/styles.css">
  <title>SoCalHikes</title>

  <header>
</div>
</header>

</head>
<body>
  <div class="dropdown">
    <ul class="dropdown-menu">
      <li><a href="log_in.php">Log In</a></li>
      <li><a href="create_account.php">Create Account</a></li>
      <li><a href="profile.php">Profile</a></li>
      <li><a href="hike_list.php">Hikes</a></li>
      <li><a href="sch_leaderboard.php">SCH Leaderboard</a></li>
      <li><a href=""></a></li>
      <li><a href=""></a></li>
      <li><a href="log_out.php">Log Out</a></li>
    </ul>
  </div>

  <div class="Title">
    <h1>Welcome to SoCalHikes</h1>
    <h2>Let's see what's out there.</h2>
  </div>

</body>

</html>
```



# Challenges



# Challenges

## Time

- Learning Front-End
- Features were cut
  - Database includes some of these, but the Webpage has no interaction with feature

## Connections

- Attempts were made to host this publicly
  - Could not get php permissions working
  - Locally Hosted



**What Would  
We Do?**

# Goals

## Publicly Hosted

- Connectable at all times
- No need for client to have XAMPP & MySQLServer

## Lost & More Features

- Restoration of any lost features
  - Rating & Favorites
  - User Submitting Trails

## Cleaner Code

- HTML is first-time and clunky
- CSS is especially overwritten

## Aesthetics

- Make the HTML look *good*
  - Add more CSS
- Include JavaScript for dynamic attributes



**Thank You**