

CIS 551: Databases Final Project

Database of Climbing Routes

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Port number: 3875

Username: guest. No password

Database Name: climbing

URL: <https://ix.cs.uoregon.edu/~swalton2/551/Final/>

1 Table of Contents

2 Summary

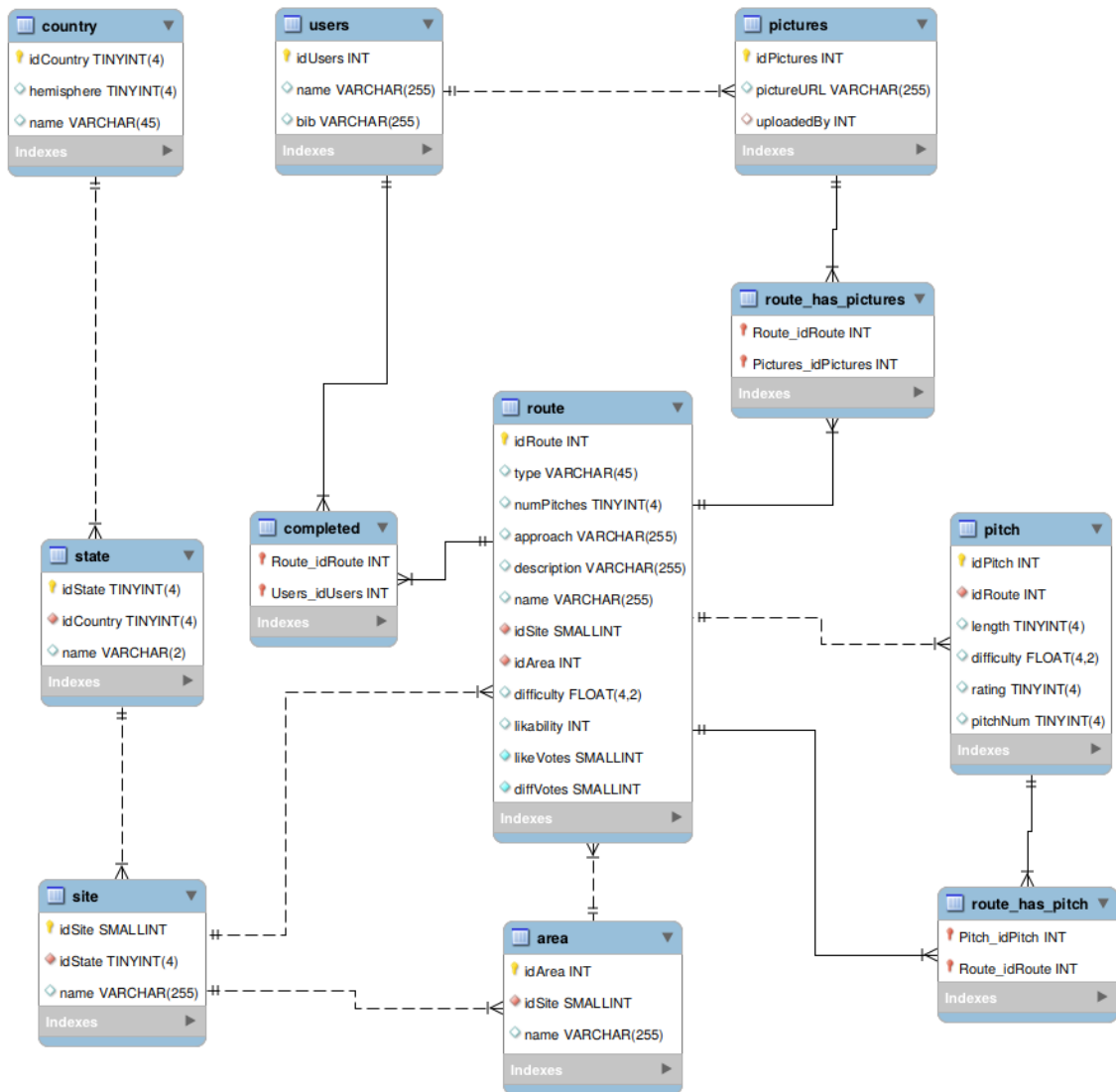
In this project I created a website similar to that of Mountain Project (links on site). The purpose of this site is so that rock climbers can create a list of routes. These routes will have the information necessary for them to know if they can climb them and what to prepare for. Being community driven, users are encouraged to add to routes and vote on the difficulty and likability of routes. They are also able to find pictures that have been taken.

There are many applications that are within the program. The main applications for the users are that they can search routes, see the entire listings, and investigate individual routes. Users are also able to submit new routes. They can even submit routes in countries, states, sites, etc that do not yet exist in the database. If they call the submit route function then it will generate those as well. Additionally, if a user specifies that a route has more than one pitch, then the route page will automatically take them through the process of specifying each pitch, then will bring them to the landing page as they submit the last pitch.

When searching a route or listing all of them, the route names are clickable links. This will take the user to the respective route page and display the relevant information for them, including any pictures. Additionally on this page users are able to vote on the likability and difficulty of a particular route.

Users are also able to generate their own profiles. Their usernames are also clickable links within the user listing directory. Their page shows their name, a description, and what photos they have submitted to the site.

3 Logical Design



4 List of Applications

- Submissions
 - Country
 - State
 - Site
 - Area
 - Route
 - Pitch

- User
 - Picture
- Update Information
 - Route Difficulty
 - Route Likability
- User Pages
- Route Pages
- Search
 - By Country
 - By State
 - By Site
 - By Area
 - By Route
 - Or by combination
- User Directory
- Route Directory
- Random Picture Display on Landing Page

5 User's Guide

This website was designed to make things easy on the user, and thus is expected to not need much guidance.

On the landing page the user is presented with the ability to search, add a user, see the user directory, see the route directory (sorted by popularity and then difficulty), and able to add new routes. The landing page also shows a random picture from the database.

In searching and the route directory listing users are presented with the country, state, site, area, route, type, number of pitches, difficulty, and likability of routes. The route names are buttons which will bring them to the specific route page.

On the route page they are presented with the same information, but additionally with a description of the route and the approach. Users are also able to vote on the difficulty and likability of the route. These values default to the already established values. Both are averages based on the number of times that users have voted on a route. Pictures from the route are also displayed. If a route has multiple pitches, then these pitches are also displayed to the user.

A user is also able to add themselves with a short description. In the user directory we can see the name and description of the user. The name is a button which will generate a page that shows the same information and the images that the user has submitted.

6 Contents of Tables

7 Implementation of Code

All code is available on GitHub at <https://github.com/stevenwalton/551/tree/master/Final>

Functions for relevant tables are located in the */src* directory. Other functions are located in the */scripts* directory, as most of these are single time use pages and display different things based on user input. Some of them are just helper pages and will redirect back to the relevant location.

The database and MySQL Workbench files are located in */database*.

8 Conclusion