

Overview:

Testing was manually done by some combination of the following for any given component:

- 1) seeing if the code would compile or crash
- 2) inserting test data and checking firebase to see if there were results
- 3) printing outputs to the console to validate correctness

- 1) Account Operations (SignUp, LogIn/Out, Change Password)
 - Followed the tutorial from the link to develop this part of the app:
<https://www.robinwieruch.de/complete-firebase-authentication-react-tutorial/>
 - Sign up tested by entering new info and checking firebase for the new account
 - Log-in/out tested by using an existing account and executing the code
- 2) The Home page shows a list of climbs with links to their own climbs that contain more information
 - Navigating to a new page tested by clicking the link for existing and new climbs
 - Navigating to a specific page based on which climb was clicked was tested by seeing if we could pull data from firebase based on a climb's key and print its data to the console
- 3) Each Climb's individual page contains:
 - a) Climb Name
 - b) First Climber (First Ascent) / Uploader
 - c) Image with route lines drawn
 - d) GoogleMaps location
 - e) Original Difficulty given by uploader
 - f) Star Rating (Average Rating / Add new rating)
 - g) Community Difficulty (Average Difficulty / Add new difficulty)
 - h) Description of climb
 - i) Location / Directions
 - j) Comment section
 - I did not work on testing c, d, j, extensively
 - a, b, e, h, and i were tested by inserting dummy text values into the new climb form page and checking firebase, and the view page, to see if the correct information was referenced by the climbing post page
 - f and g were tested by inserting dummy values, printing their output values to the console, and checking firebase for their values
 - j was tested by inserting dummy comments, printing their output to the console, and checking firebase for their values
- 4) New Climb Form that asks for:
 - a) Image
 - i) Lets your draw your own route lines with a drag / drop function

- b) Climbed By
- c) Route Name
- d) Route Difficulty
- e) Location / GPS Coords (Provided by GoogleMaps)
- f) Directions
- g) Description

- I did not work on testing a and e extensively
- b, c, d, f, and g were testing by inserting dummy strings into the 'new climb' form and checking their values on the console, pop-up alert, and firebase after submitting the form