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**San Francisco Hiking Helper App**

**Functional Specification**

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Last Updated: April 20, 2018

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**Overview**

**HikingHelper.com** is a service that shows people details about popular hiking trails in San Francisco, CA, helping them find and share the best hikes!

**Scenarios**

**Scenario 1: Jim.**

Jim is a busy software engineer who recently moved to San Francisco for work. Because he hasn’t explored much of the city, Jim decides that the best way to take in the views of this great city is to take a hike. Unsure of where to hike, he starts googling, “hiking trails in SF.” The result: an overwhelming number of websites, claiming to have the “10 [or 9 or 8 or 5] best San Francisco Bay Area hikes.” After searching for half an hour and finding no real consensus across the sources, Jim was ready to throw in the towel… when, fortunately, he stumbled upon HikingHelper.com.

Unlike other (annoying) websites with multi-page articles, that require users to click through their slideshow, one slide per page, HikingHelpler is a single page web app that allow users to find popular hiking trails quickly and reliably. Instead of pages of text, it displays only the details that hikers care most about (e.g., time, length, level of difficulty, weather, etc.). What’s more, it is specific to hiking trails in SF, meaning that SF-based users will not be bombarded with trails in Marin County, East Bay, The Peninsula, etc., saving busy people - like Jim - time, so they can spend less time searching and more time exploring the best hikes in SF.

S**cenario 2: Sally.**

Sally is a San Francisco native who enjoys exploring as well as sharing the many gems of the city with her out-of-towner friends and family. Having lived here her entire life, she’s quite familiar with the touristy attractions like Fisherman’s Wharf and Chinatown, but prefers to take them on hikes to explore the nature side of SF, a side that many people overlook when visiting a major metropolitan city. Tired of having to explain to visitors that, yes, there are places to hike in San Francisco, and, yes, the hikes are amazing, Sally began searching the web for resources to provide the skeptics. While searching, she found HikingHelper.com, an app that was exactly what she was looking for; actually, it was even better! Not only does it list beautiful hikes around the city, providing just enough information about each, but it also has a comment and gallery section where Sally can share her knowledge and experiences with a community beyond her friends and family.

**Scenario 3: George**

George who just came to San Francisco is a new college student majoring in web design. He wants to know some famous scenery around San Francisco. After a few searching, he reaches our site finally. He felt our site is very interesting by providing a lot of information about hiking around the city. However, he found there is still room to improve our site. For example, he has some beautiful pictures want to add to the photo gallery page; there are more hiking tails he wants to add to the list…….. He wants to share his web design knowledge and experience with us and help us to improve our site together. So he uses the comment page to leave us some comments and images that he wants add. Our team is glad to communicate with different users through the discussion page which can help us finding bugs and will improve our app. We follow George’s advise and modify our site. We finally become friends.

**Non-Goals**

This *current* version will *not* support the following features:

· Trails outside the city of San Francisco

· Trail results exceeding 20

**Flowchart**

This flowchart is intended to illustrate the general storyboard of using HikingHelper.com, starting from the top of the page and following the user as he or she scrolls down. Main page, Hiking tips and Weather boxes represents a section of the screen, Comments and Photo boxes represent a separate page.

**Example of the homepage:**

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| **Navigation Bar**  |

| logo TITLE |weather | comments| photo| hiking tips |

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|  **Banner**  |

| Image of SF |

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| **Sidebar** Top trail list | **Map of SF** with pin (!) |

| | |

| 1. Lands end | |

| 2. Mount Sutro | |

| 3. Batteries to Bluffs | |

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| 20. Golden Gate Park | |

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| |

|  **Weather 5-day forecast** with search bar | | |

*| enter zip code here* **forecast |**

| |

| Friday (or current day) Saturday Sunday Monday Tues |

| H: 65 F H: 72 F H: 70 F H: 79 F H: 74 F |

| L: 49 F L: 40 F L: 50 F L: 61 F L: 40 F |

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| |

|  **Hiking tips**  | | |

*| A brief explanation about the advantage of hiking.*  **|**

| | | |

Safety Tips

Hiking with kids

Hiking with dogs

More information

Benefit of hiking

Tips for making San Francisco Hiking better

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|  **Footer** with contact and copyright information |

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**Example info-card:**

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| |  **Name**  |

| Image of trail | Distance (in miles) |

| | Elevation (in feet) |

| | Type (of route) |

| | Difficulty |

| | Traffic |

| | Dogs allowed: yes | no |

| | hyperlink (to useful information) |

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**Example of comment page:**

**Banner image of San Francisco Hiking App**

Name box

Comment box

Comment summit button

Displaying users’ comments and images here

Add Image button

Contact and copyright information

**Example of photo page:**

# Photo Gallery

Sample image.

(When the user click the image, it will display the original size of the photos in a new page)

Sample image

Sample image

Sample image

More images……….

Contact and copyright information



**Section-by-Section Specification**

**Navigation Bar**

· Displayed at the top of the page, and contains:

1. Logo

2. Title – San Francisco Hiking Helper App

3. Weather button - to take the user to weather section

4. Comments button - to take the user to the comments page

5. Photo button - to take the user to the photo page

6. Hiking tips button - to take the user to hiking tips section

**Banner**

· Displayed below the navigation.

· Consists of a professional and representative image of San Francisco

· Serves to make the website more visually appealing

**Sidebar**

· Displayed below the Banner, to the left of the screen.

· Allow user to see the top 20 popular trails in SF in ascending order

· List will show the rank (1-20) and the name of the trail

· Clicking on any of the trails will take the user to pin on the map section

**Map**

· Displayed below the Banner, to the right of the screen, next to the sidebar

· Allow users to see where the popular hikes are located visually, geographically

· Map of SF with pin corresponding to the trails coordinates (lat, lng)

· Each pin will contain an information card

· Clicking on any of the pins will open the information card

**Info-card**

· Allow users to learn more about the selected trail

· Each card will have an image of the hiking trail on left

· On the right part, the following details will be displayed:

1. Name – of the selected trail

2. Distance – in miles

3. Elevation – in feet

4. Type – loop vs. back-&-out

5. Difficulty - easy, moderate, strenuous

6. Traffic - light, moderate, heavy

7. Dogs allowed - yes, no

8**.** Hyperlink – to learn more about the trail

**Weather**

· Displayed below the sidebar and map

· Contains a search bar, where the user can enter a zip code or name of city with state

· Assuming a valid zip code was entered or city and state: San Francisco, CA - a standard five-day forecast will be displayed.

* In case of invalid zip code or name of city with state will give error message.

· Allow users to prepare for different weather conditions and decide on an optimal day to hike

**Footer**

· Displayed at the bottom of the page

· Contains copyright information, standard for every website

· Contains basic contact information for the team involved in the project

· Allow users to contact the members, should they have any questions, comments, concerns

**Comments**

· Displayed on a separate page

· Clicking on the comments button at the top right of the main page will open a new tab

· Page contains comment box listing comments inputted from other users

· Page contains a home button to take users back to the main page

· Page contains an add image button which allow user to upload their photos

· Allow users to share their experiences and/or concerns of the hikes with comments,

descriptions, questions, tips

· Allow users to address others’ questions/concerns about the hikes

· Allow users to read others’ comments about the hikes and gain from their experiences

**Photo Gallery**

· Displayed on a separate page

· Clicking on the photo button at the top right of the main page will open a new tab

· Page contains a home button at the bottom to take users back to the main page

· Contains sample pictures of different hikes around SF, organized by trail

· Allow users have a background of each hiking trails by viewing pictures

**Hiking tips**

· Displayed on the main page on the hiking tips section

· Clicking on the hiking tips button at the top right of the main page will go to the section

· Contains useful hiking information and links to more resources

· Allow users to better prepare for hikes