Ramp CU

Folsom Field

University of Colorado Boulder

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Overview

Use: Route planner
Target audience: Members of the community with navigation constraints not considered by current map services

Features:
- Uses SQL database
- Access to disability services
- Easier user input (button instead of typing in building name)
- Displays routes that consider wheelchair-only obstacles
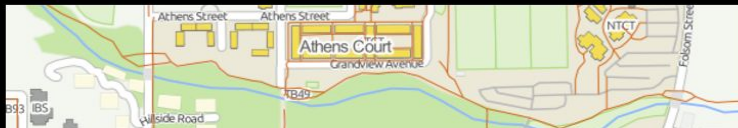
RampCU

Map to Success

Click on the images below to be directed to CU Boulder's website and CU Boulder's Disability Services website.
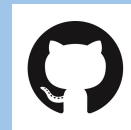
People restricted to wheelchair accessible travel will be able to use our website to direct them along the best, safe route to their chosen destination on campus. Feel free to use this campus map provided by CU Boulder in order to guide your way around the campus.

Campus Map
UNIVERSITY OF COLORADO **BOULDER**

MENU ☰

Tools

USE	NAME	SCORE	COMMENTS
Version Control	GitHub	5	Repository hosting and sharing
Project Management	Trello	3	Planner for To Do's, In Progress, and Done tasks
Team Collaboration	Slack	4	Form of communication
Frontend Aesthetics	Bootstrap	2	Used to improve HTML
Database	mySQL	5	Used to create database
	phpMyAdmin	3	Set database on web
Backend-Frontend Integration	PHP	5	Used to display elements from database
Server	Amazon Web Services	5	Used to set up a virtual machine to host website
	WinSCP	4	File management between local machine and AWS
	PuTTY	5	An SSH to connect to virtual machine

Browser / Firefox

REQUEST

RESPONSE

INTERNET

Web Server / Apache

php
CGI Language / PHP

OS Server | GNU/Linux

LAMP Architecture

- Linux   - OS
- Apache - Web
- MySQL - DB
- PHP   - Script

DB Server / MySQL

CLIENT   SERVER

Methodologies

- **Agile**
  - Alternative to traditional project management
- **Pair programming**
  - Coder and Navigator
- **Unit and user acceptance testing**
  - Codeception

Challenges

- **Conflicting ideas**
- **Learning new tools**
- **Scheduling conflicts**
- **Google Maps API implementation**

Lessons Learned

- Planning stage is just as important as coding
- Techniques: how to construct a database and link it into the website
- Coding, web designing, and running
- Cooperation: Slack (verbal) and GitHub (technical)
- How to distinguish efficient tools in situations. (Slack vs Trello)
- Understand why so many software projects fail