**Requirements Document**

**ECE 495/595 Project**

**Team 3**

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# Introduction

## Purpose

The purpose of this project is to demonstrate the knowledge students have gained of the Rails MVC from taking ECE 495/595 and applying to a term project. Students will also demonstrate the ability to work in groups developing code using git.

## Project Scope

Create a web application that allows users to pick a spot on a map of the world, where a handrail or other skate-able/snowboard-able feature exists, and make annotations regarding the site. E.g., rate the difficulty of the site, post video of someone “hitting” the site, challenge someone to perform a particular trick at the site, etc. Users should be able to search by location, trick, site difficulty, etc. Users should also be able to rate how well someone performed at a site (in a moderated fashion), and the website should support the ability to feature certain sites or riders prominently. The website should allow for advertising and sale of skate/snowboarding related merchandise.

## References

* <http://www.mademan.com/mm/how-hit-handrails-skateboarding.html>

# Overall Description

## Product Features

* Allow users to create a post related to a spot on a map with skateable features.
* Allow users to describe features of the site, including difficulty, suggested tricks, etc.
* Users should be able to search posts by location, trick, site difficulty, etc.
* Users are able to rate posts of people hitting the spots.
* Website should feature certain sites or riders.
* Website should allow for advertising and sale of skate/snowboarding related merchandise.

## User Classes and Characteristics

Users of this application will include all related extreme sports athletes that are interested in such a product.

## Operating Environment

Application should run on Ruby on Rails v3.2 and above.

## Design and Implementation Constraints

The following design and implementation constraints exist:

* No formal instruction about including maps into Rails, search related functions in Rails.

# System Features

## Create Posts

### Description

Users will be allowed to create posts that include location of spot, text description, pictures/videos, difficulty rating, etc. These posts will show up as markers on a map. These posts will be visible to any visitor.

## Searchable Posts

### Description

Users will be able to search through posts by a number of different requirements, including location of the site, suggested trick, site difficulty rating, and any other relevant search items.

## Feature Prominent Posts

### Description

The website will have the ability to show certain posts above others on the basis of popularity, difficulty, and any other relevant items. These will be shown at the index of the site.

## Advertising

### Description

The website shall have the ability to advertise skateboard/snowboard related items. The website will also have the ability for sale of such items.