**Project Part 6: Final Project Submission**

CSCI 3308; Boese

**I.** *Title of Project*: Rocky Mountain Ski Genie

**II.** *Team Members:* Eric Rudat, Will Vardell Alex Doran

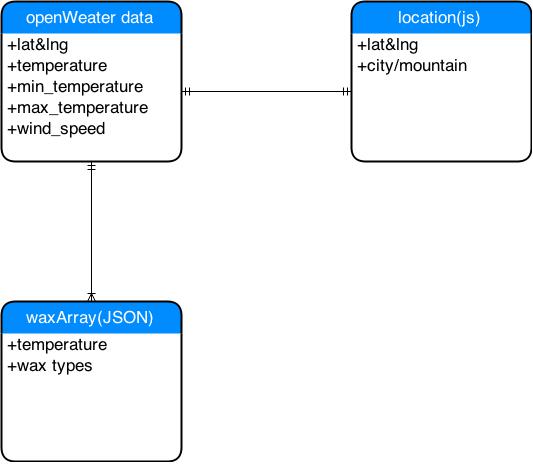
**III.** *Methodologies Used:* Waterfall, Paired Programming, and Peer Code Review

**IV** *Project Tracker*: <https://trello.com/b/76d3ov4E/rocky-mountain-ski-genie>

**V.** *VCS Repository (Github):* <https://github.com/AlexLDoran/RockyMountainSkiGenie>

**VI.** *Database Used:* Not a traditional MySQL/NoSQL database. Instead we used OpenWeatherMap’s data services and accessed their weather information through REST API calls.

**VII.** *E-R Diagram:*



**VIII.** *Deployment Environment:* DigitalOcean

* <url> = <https://rockymountainskigenie.com> (copy and paste into web browser)

**IX.** *Project Proposal vs. Actual Project:*

* Our project was approximately 90% complete based on the requirements we defined in Part 2 of the process. Some differences include:
  + The system does not support recommendations for goggle lens like we intended to include. After exploring various weather API options, we struck-out finding one that provided real-time UV index readings. Thus, we decided to omit this feature; however, in it could easily be added in, in the future if support for UV index readings becomes available.
  + The other variation from our original design pertains to the functional requirement that our system would prompt the user to enter snow conditions after they selected the mountain. After researching different ski waxes online we learned that the biggest factor, that makes one wax superior to the next, is a combination of air and snow temperature. Thus, we were decided the ‘input snow conditions’ feature was unnecessary, and omitted it from the final design.

**X.** *Test Cases:*

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| **Project Name: Rocky Mountain Ski Genie** | | | | | | | |
| **Test Case #1** | | | | | | | |
| **Test Case ID:** WindowSize | | | | **Test Designed By:** Will Vardell | | | |
| **Test Priority(Low,Med,High):** Low | | | | **Test Designed Date:** 12/5 | | | |
| **Module Name:** Window Resizing | | | | **Test Executed By:** 12/8 | | | |
| **Test Title: Verify** Resizing doesn’t break website format | | | | **Test Execution Date:** 12/8 | | | |
| **Description:** Try odd window sizes and observe the format of the page | | | |  | | | |
| **Pre-conditions:** Site must be up and running on localhost | | | | | | | |
| **Dependencies:** | | | | | | | |
| **Step** | **Test Steps** | **Test Data** | **Expected** | | **Actual** | **Status** | **Notes** |
| **1** | Navigate to webpage |  |  | |  |  |  |
| **2** | Resize window |  | Options reformat to fit in screen nicely | | Same as Expected | Pass |  |
| **Post-Conditions:** All resizing works, if window is made too small options stack vertically | | | | | | | |

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| **Project Name: Rocky Mountain Ski Genie** | | | | | | | |
| **Test Case #2** | | | | | | | |
| **Test Case ID:** ActiveLinks | | | | **Test Designed By:** Alex Doran | | | |
| **Test Priority(Low,Med,High):** High | | | | **Test Designed Date:** 12/5 | | | |
| **Module Name:** LinkTest | | | | **Test Executed By:** 12/8 | | | |
| **Test Title:** LiveLinks | | | | **Test Execution Date:** 12/8 | | | |
| **Description:** Make sure all links direct to a pag and are active | | | |  | | | |
| **Pre-conditions:** All buttons on the page are linked to another page | | | | | | | |
| **Dependencies:** | | | | | | | |
| **Step** | **Test Steps** | **Test Data** | **Expected** | | **Actual** | **Status** | **Notes** |
| **1** | Open up the RMSG homepage |  |  | |  |  |  |
| **2** | Select link and make sure it takes you to a mountain |  | Taken to mountain page | | Same as Expected | Pass |  |
| **3** | Select the “Home” buton and make sure it sends you home |  | Taken to home page | | Same as Expected | Pass |  |
| **Post-Conditions:** All links work successfully | | | | | | | |

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| **Test Case #3** | | | | | | | |
| **Test Case ID:** Weather | | | | **Test Designed By:** Eric Rudat | | | |
| **Test Priority(Low,Med,High):** High | | | | **Test Designed Date:** 12/5 | | | |
| **Module Name:** WeatherAPI | | | | **Test Executed By:** 12/8 | | | |
| **Test Title:** WeatherTest | | | | **Test Execution Date:** 12/8 | | | |
| **Description:** Make sure correct weather is displayed | | | |  | | | |
|  | | | |  | | | |
| **Pre-conditions:** Have Openweathermap API linked to RMSG page | | | | | | | |
| **Dependencies:** | | | | | | | |
|  | | | | | | | |
| **Step** | **Test Steps** | **Test Data** | **Expected** | | **Actual** | **Status** | **Notes** |
| **1** | Make sure you are running on localhost |  |  | |  |  |  |
| **2** | Navigate to preferred mountain page |  |  | |  |  |  |
| **3** | Check displayed weather into with weather.com |  | Matching weather information | | They matched! | Pass |  |
| **Post-Conditions:** Weather API is working and accurate | | | | | | | |

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| **Test Case #4** | | | | | | | |
| **Test Case ID:** Wax | | | | **Test Designed By:** Will Vardell | | | |
| **Test Priority(Low,Med,High):** High | | | | **Test Designed Date:** 12/5 | | | |
| **Module Name:** WaxAlgorithm | | | | **Test Executed By:** 12/8 | | | |
| **Test Title:** SelectWax | | | | **Test Execution Date:** 12/8 | | | |
| **Description:** Make sure each weather type displays the correct recommended wax | | | |  | | | |
|  | | | |  | | | |
| **Pre-conditions:** Weather API must be set up and wax algorithm running | | | | | | | |
| **Dependencies:** An accurate API and algorithm | | | | | | | |
|  | | | | | | | |
| **Step** | **Test Steps** | **Test Data** | **Expected** | | **Actual** | **Status** | **Notes** |
| **1** | Go to preferred mountain and view recommended wax |  |  | |  |  |  |
| **2** | Make sure wax matches corresponding weather |  | Weather matches the wax chosen | | Same as expected | Pass |  |
| **Post-Conditions:** Correct wax is displayed | | | | | | | |

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| **Test Case #5** | | | | | | | |
| **Test Case ID:** LinkMatch | | | | **Test Designed By:** Alex Doran | | | |
| **Test Priority(Low,Med,High):** High | | | | **Test Designed Date:** 12/5 | | | |
| **Module Name:** Links | | | | **Test Executed By:** 12/8 | | | |
| **Test Title:** LinkMatch | | | | **Test Execution Date:** 12/8 | | | |
| **Description:** Make sure the links match the pages they represent | | | |  | | | |
| **Pre-conditions:** | | | | | | | |
| **Dependencies:** | | | | | | | |
| **Step** | **Test Steps** | **Test Data** | **Expected** | | **Actual** | **Status** | **Notes** |
| **1** | Select button for a specific ski resort |  |  | |  |  |  |
| **2** | Make sure you are directed to the right page |  |  | |  |  |  |
| **3** | Go “Home” and try the next link |  | Linked page matches name | | Same as expected | Pass |  |
| **Post-Conditions:** Links are all set up and directed correctly | | | | | | | |