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

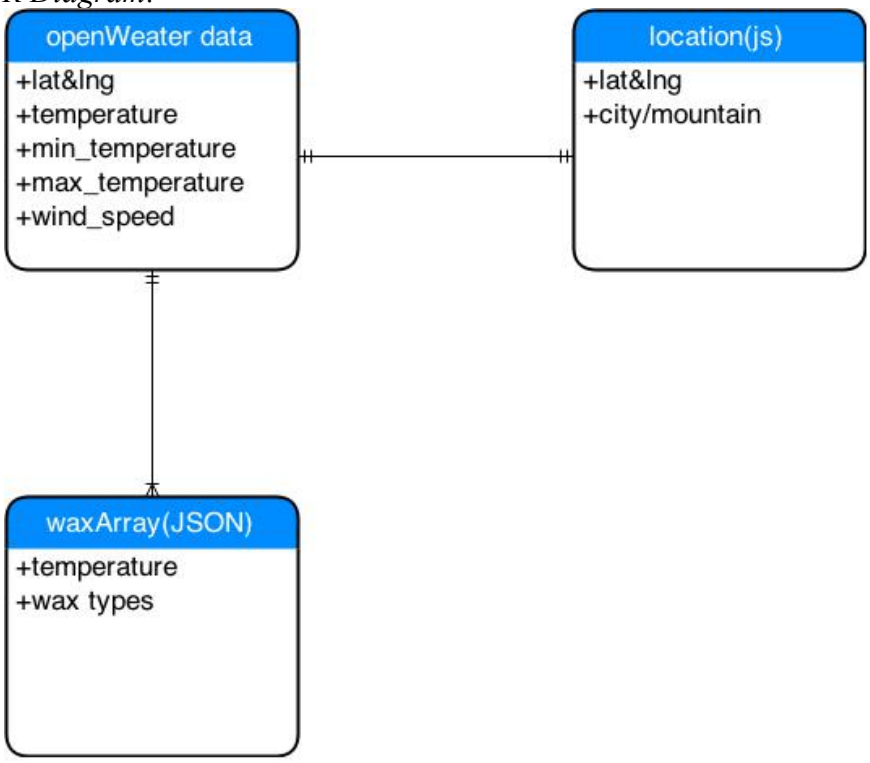
III. *Methodologies Used:* Waterfall, Paired Programming, and Peer Code Review

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:*

<table>
<tr><td colspan="7">Project Name: Rocky Mountain Ski Genie</td></tr>
<tr><td colspan="7">Test Case #1</td></tr>
<tr><td colspan="3">Test Case ID: WindowSize</td><td colspan="4">Test Designed By: Will Vardell</td></tr>
<tr><td colspan="3">Test Priority(Low,Med,High): Low</td><td colspan="4">Test Designed Date: 12/5</td></tr>
<tr><td colspan="3">Module Name: Window Resizing</td><td colspan="4">Test Executed By: 12/8</td></tr>
<tr><td colspan="3">Test Title: Verify Resizing doesn't break website format</td><td colspan="4">Test Execution Date: 12/8</td></tr>
<tr><td colspan="3">Description: Try odd window sizes and observe the format of the page</td><td colspan="4"></td></tr>
<tr><td colspan="7">Pre-conditions: Site must be up and running on localhost</td></tr>
<tr><td colspan="7">Dependencies:</td></tr>
<tr><td>Step</td><td>Test Steps</td><td>Test Data</td><td>Expected</td><td>Actual</td><td>Status</td><td>Notes</td></tr>
<tr><td>1</td><td>Navigate to webpage</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>2</td><td>Resize window</td><td></td><td>Options reformat to fit in screen nicely</td><td>Same as Expected</td><td>Pass</td><td></td></tr>
<tr><td colspan="7">Post-Conditions: All resizing works, if window is made too small options stack vertically</td></tr>
</table>

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						

Project Name: Rocky Mountain Ski Genie						
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						

Project Name: Rocky Mountain Ski Genie						
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						

Project Name: Rocky Mountain Ski Genie						
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						