

Tools for Supporting Community Growth in Open Source

CS463: Final Report Spring 2016

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Abstract

For the past six months our group has been working on a project that is creating tools that gives users the ability to look for open source community leaders that are hosting events. These tools will allow users to have the opportunity to find these events in order to become a contributor to an open source project. This is done in the form of a website that will have features for finding certain events dealing with open source projects so that it can be easily accessible by people with a passion for wanting to contribute to projects. Throughout this document, we look at what this team has accomplished for each of the requirements that have been laid out, discussing problems that have halted our progression through the project, and how we changed our timeline. Also included are important images of the user interface we have decided to use, along with pieces of code that we have completed. By the end of this document, you will get a complete picture of how we reached our version 1.0 release.

I. INTRODUCTION TO THE PROJECT

The Community Driven Development project is sponsored by the Apache Software Foundation under Ross Gardler, Director and President of the company. The project was designed and prototyped by Gardler before being proposed to the senior software project class for Oregon State University. Development for the project hopes to achieve more involvement in terms of helping building upon the Open Source Community and helping it grow and gain more traffic. The prototype was regularly used by Gardler and many of the faculty from Apache and is continued to gain interest to the public. The importance of development of the project will promote more growth and allow more tools for users in the community to find and locate more events and get more involved in open source community groups and projects. The students assigned to work on this project were Justin Bruntmyer, Megan Goossens, and Hai Nguyen. Each member took upon equal and separate roles for the project. No specific roles were assigned as each member took part in doing part of the work for every task. Ross Gardler provided the initial prototype while the project was improved and implemented with the requested features as the term progressed.

II. REQUIREMENTS DOCUMENT

A. Introduction to the Problem

Open source projects are known for the code that is developed from them however that is not what causes these projects to either live or die. Though it is true that an open source group can survive without a viable community in most cases there is a class of open source projects that lives or dies on the strength of its community such as the Apache Software Foundation projects. Existing tools are in place for tracking activity within online communities however these tools focus on identifying customers to the open source projects. The problem that is being focused on is that new tools need to be made to identify community leaders so that community builders know who to engage with.

B. Project Description

The goal of this project is to build connections, collaborations, and identifications between community members and leaders in open source projects. This entails contributing to Apache Software Foundations existing software platform to create tools that identify and support community leaders and members. Better tools will help identify potential community leaders which will then allow community builders to engage with and support those leaders. Over the course of the project, consistent updates check what tools were used as intended and which ones could be improved and expanded. Evaluation of the tools implemented is done in order to measure its significance and effectiveness.

The solution to this problem should be able to identify community leaders to people with a desire to improve the strength of a community around a specific project. This solution includes being able to observe Apache Software Foundation community activity on publicly available information such as meetups.com in order to identify those potential community leaders. The solution is to provide enough information to community builders to contact and engage with the leaders so that they can begin their own contributions to the projects.

C. Requirement

The end goal of our project is to create a tool for identifying community leaders for others to see and given the chance to get involved with by having a web page that will let users go through and view all of this data in one location. This data will be gathered from an algorithm that reaches out to meetups.com and use key terms to find community leaders. As a stretch goal we would like to have this algorithm gain data from other social media sites such as Facebook and Twitter.

We will be starting with a prototype that has been implemented which means we will need to start by fixing what doesn't work and then adding key features that we believe the project needs. In a final delivery there will be a patched version of the prototype with tool fixes along with new features to improve usability.

REQ#	Requirement	Priority	Expected Completion
1	Gain access to source code of the Community Developments page	HIGH	11/30/2015
2	Fix the "People" page where the list of community leaders are shown	HIGH	01/11/2016
3	Tweet at a person listed i the database	LOW	03/14/2016
4	Add user accounts to the application and track when a user has tweeted an event	MEDIUM	02/15/2016
5	List tweets about events and/or people via the app	MEDIUM	02/22/2016
6	List tweets about events and/or people from twitter, but not via the app	MEDIUM	02/29/2016
7	Export a list of people with information	LOW	03/07/2016
8	Improve hashtag searching of application for better results on relevant events	HIGH	02/08/2016*
9	Alpha Release		02/08/2016
10	Improve the visuals of the tool looks as a whole	HIGH	02/01/2016
11	Beta Release		03/14/2016
12	Implement a system of finding events nearby a location entered or within radius of the user	HIGH	02/08/2016*
13	Add feature to generate a profile for community developers to have contacting information easily view-able	HIGH	01/25/2016
14	1.0 Release		05/20/2016

*We expect this task to be more difficult, so we will work on the task in parallel to other tasks during that time.

D. Alpha/Beta/1.0 Releases

We plan to release the Alpha version of the project during week 6 of winter term where we will have multiple fixes complete for the tools that are already implemented in to the project that we are starting with. This will mean that the Alpha version will be a major patch on what is created already in order to improve the functionality of the current implementation. We plan to release the Beta version of the project during finals week of winter term where we will implement new tools for community leaders to manage their posts along with some other useful tools. Here we plan to have almost all of the functionality ready. Lastly version 1.0 will be released on May 16, 2016 which is the Monday prior to the engineering expo. This version will be our final release and should be bug free in the implementation of our project.

E. Specifications of Requirements

- 1) Gain access to source code of the Community Developments page
 - a) Gain access to the source code for the prototype to begin working.
 - b) This will be given by client as we will be collaborating with him on testing the functionality of the prototype.
- 2) Fix the People page where the list of community leaders are shown
 - a) Currently takes a large amount of time in order for the "people" page to load as it shows the current people who are identified as community leaders.
 - b) Figure out why the page takes such a long time to load. Could be too much data and the algorithm for pulling up this page needs to be changed.
 - c) Need to debug the causes of crashes by some browsers.
- 3) Tweet at a person listed in the database.
 - a) There will be a button that a user can select to send a tweet to a person directly.
 - b) This will be sending the user to the twitter API in order for them to construct and send a tweet.
- 4) Add user accounts to the application and track when a user has tweeted an event
 - a) This is so they don't inadvertently do it twice
 - b) Track date of tweet, tweet text and tweet ID

- c) This enables the prototype to branch out further than meetups.com
- d) Allows user to see what tweets they have tweeted about
- 5) List tweets about events and/or people via the application
 - a) This should work for the current user and others
 - b) Allows retweet or sending as new tweet based on existing one
 - c) Have a button that will list the tweets that were tweeted via the application.
- 6) Export a list of people and email addresses
 - a) The emails corresponding with the people will be exported as well
 - b) Will be in JSON, CSV and test format for easy consumption in other applications
- 7) Improve hashtag searching of application to improve finding relevant events
 - a) The searching algorithm is currently returning data from meetups.com with searching for tag "apache" however this is not working correctly as it is pulling information that has nothing to do with open source projects and is very random.
 - b) The searching algorithm will need to be fixed so that it find the correct tags from meetups.com and pull the accurate data.
 - c) The stretch goal here is the be able to use this algorithm on multiple social media networks.
- 8) Alpha Release
 - a) Alpha to be released the 6th week of winter term.
 - b) This version will have some fixes for the improvement on algorithm, mark event action, mark group action, import members action, import meetups action, and the people action.
 - c) If not completely fixed/implanted the project will at least handle them by throwing a message to the user saying this tool is under construction.
- 9) Improve the visuals of the tool looks as a whole
 - a) Make the user interface look sharper and more appealing
 - b) Have the events and people information that is displayed when a user decides to look into more details about a person or even be more appealing as well.
- 10) Beta Release
 - a) The Beta of the project will be released on finals week of winter term.
 - b) In the Beta the fixes from the fist Alpha should all be fixed correctly, and all of the tools that we wanted to add should be implemented but not necessary working correctly, at least has some functionality.
- 11) Implement system of improved sorting of finding events by nearby location within radius of the user
 - a) The program will be able to get the location from the user and based on this location the nearest community leader events will be shown to the user.
- 12) Add feature to generate a profile for community developers to have contacting information easily viewable
 - a) Based on the data collected from meetups.com to identify the community leader not only will the events be posted but the community leader will have a section where the user can easily view the contact information pulled from meetups.com. A link with their name.
 - b) This is not a collaboration communication tool but just a way to view the contact information.
- 13) 1.0 Release.
 - a) This will be the final release where all of our implementations should be working correctly with no bugs.
 - b) This will be released on May 16, 2016 which is the Monday prior to the Expo.

F. Risk Assessment

- 1) Miscommunication on can happen in between the Community Development team currently working on the project.
- 2) Security issues, unwanted changes to source code from unauthorized individuals
- 3) Algorithms created cause even slower computation time for certain aspects of the website
- 4) If certain implementation is added and is miscommunicated to a function that was not originally discussed
- 5) Pulling data from meetups could be corrupted
- 6) Code does not match with already implemented coding standards on the project

G. Stretch Goals

- 1) Create a notification system to alert users of important events that the user may be interested in.
- 2) Create profile system for users and community developers

- 3) Create a notification system to alert users of important events that the user may be interested in
- 4) The project will have a tool that will allow a user to enter their email and they will be notified when a project event is added that they may be interested in.
 - a) This could also be implemented to send emails to users that sign up for them to a certain community leader for a certain project rather than trying to figure out what they might be interested in.
- 5) Fix "Import Members to allow importing of members
- 6) Allow community developers to edit their own events for specific messages
- 7) Create profile system for users and community developers

H. Time Table Gant Chart

The gantt chart below shows the timeline we have set for our group to meet the requirements proposed in this document. We will be trying to fulfill this timeline as much as possible in a timely manner as it gives us a great path towards completing this project.

See gantt chart on next page.

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	'15	Oct 18, '15	Nov 8, '15
1		Problem Statement	0 days	Fri 10/16/15	Fri 10/16/15		Bruntmyer; Justin	M	T	W
2		Requirements Document			Fri 10/30/15		Goossens; Megan			
3		Gain access to source	24 days	Wed 10/28/15	Mon 11/30/15		Bruntmyer; Justin			
4		Implement system of	51 days	Mon 11/30/15	Mon 2/8/16		Bruntmyer; Justin			
5		Fix the "People" action	21 days	Mon 1/11/16	Mon 2/8/16		Bruntmyer; Justin			
6		Add user accounts to	16 days	Mon 1/11/16	Mon 1/18/16		Bruntmyer; Justin			
7		List tweets about ever	6 days	Mon 1/11/16	Mon 1/18/16		Bruntmyer; Justin			
8		List tweets about ever	6 days	Mon 1/11/16	Mon 1/18/16		Bruntmyer; Justin			
9		Export a list of people	6 days	Mon 1/18/16	Mon 1/25/16		Bruntmyer; Justin			
10		Add feature to genera	6 days	Mon 1/25/16	Mon 2/1/16		Bruntmyer; Justin			
11		Tweet at a person list	6 days	Mon 1/25/16	Mon 2/1/16		Bruntmyer; Justin			
12		Improve viewing met	11 days	Mon 2/1/16	Mon 2/15/16		Bruntmyer; Justin			
13		Improve searching alg	6 days	Mon 2/15/16	Mon 2/22/16		Bruntmyer; Justin			
14		Fix "Import Members"	6 days	Mon 2/22/16	Mon 2/29/16		Bruntmyer; Justin			
15		Alpha Release	51 days	Mon 11/30/15	Mon 2/8/16		Bruntmyer; Justin			
16		Allow community dev	6 days	Mon 2/29/16	Mon 3/7/16		Bruntmyer; Justin			
17		Beta Release	26 days	Mon 2/8/16	Mon 3/14/16		Bruntmyer; Justin			
18		Create profile system	6 days	Mon 3/7/16	Mon 3/14/16		Bruntmyer; Justin			
19		1.0 Release	50 days	Mon 3/14/16	Fri 5/20/16		Bruntmyer; Justin			

Task

Spit

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

Project: Project3

Date: Wed 10/28/15

III. CHANGES TO THE REQUIREMENTS

After continuous work on this project, the perspective on what this community development tool wants to accomplish became clear. After taking more time to read and understand the code that was previously written for the prototype, we can see clearly how the data is organized and connected using Django and its tools. First and foremost, the purpose of the community development tool remains the same. The purpose is to gather information from meetup.com which is the website we are pulling information about events and people from. Next we parse that information into a list of upcoming events related to Apache and open source projects so that developers in the open source community have an easy way to access an environment where they can hope to participate in those events. The ultimate goal of this project is to create a set of tools that eager developers can use to find events, view community leader profiles, and get involved.

REQ#	Requirement	What Happened To It	Comments
1	Fix the "People" page where the list of people are shown from groups	<p>The People page currently takes all of the people in the database and lists them onto the page. Normally, if the prototype is hosted on a local machine and the database is relatively small, then the page loads fine in a minimal amount of time. The issue is nested in the actual hosted site by Apache where hundreds of thousands people are imported into the database daily and dramatically slowing down the loading time of the page. With our current progression of the project, we have not made significant progress into improving the loading time of the page.</p> <p>We use our own local host to import a small amount of members at a time and that requirement is set to be worked on shortly for Beta implementation. The guideline for working towards accomplishing this requirement is to limit the amount of people loaded at a time onto the page. For Beta, we have rearranged where the table is generated for the people page in the function within views.py. This change specifically was introduced because a bug was found where when the table is generated, then if the amount of people were too many, then the table would crash and not build.</p> <p>With the rearrangement, now the table does not break through a large build and now tends to load faster. Unfortunately, the implementation of the fix for the People page is local. We have yet to test it on the host that Apache is using to run the prototype currently. We predict that the fix will work but it will need to be approved and patched into the live site for clarification.</p>	blah

2	Tweet at a person listed in database	<p>Each person who is imported into the application is generated their own profile page based off of their Meetups ID. Information from Meetups about the persons profile is also parsed in the community development tool. Those profiles include displaying the twitter handle of the person. This was done by changing the Meetup API request so that we could get the correct information and then store that information in our database. This can be seen in code snippet 1 located below with the URL shown along with the 'if' statements to locate the twitter handle. This allows the user to get in contact with the person in a profile. Above the twitter handle is a button that has the Twitter symbol which allows the user to click and send a tweet at the person via Hoot-suite. The hoot-suite app is given the twitter handle of the person the user wants to tweet at and the URL of the persons page on our application for reference. The user signs in to compose the tweet and sends it under their Twitter account. The code snippet 2 located below shows the HTML encoding of the button used to create the Hootsuite connection and shows the retrieval of the twitter handle from the database with 'person.service'.</p> <p>Not all users have a Twitter handle registered with Meetups thus the tweet button does not have any use. To handle this case the tweet at button only appears on profiles of imported people that have a registered Twitter handle.</p>	blah
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3	Add user accounts to the application and track when a user has tweeted an event	<p>The purpose of adding user accounts to the applications is to be able to track when users tweeting about events or people. With the completion of this requirement, the account creation is working along with being able to sign in successfully with a confirmation of signing in by displaying a welcome message along with the user's username. There is also a login and logout button located in the top right section of the website on all pages allowing the user to login or logout at anytime. Everything is also backended with features of the website only existing if the user has an authorized account. This means that action functions within the application which include importing meetups, importing members, marking events as not applicable, and marking groups as not applicable to be behind being signed in. This means if you are not logged in with the authorized account, you can't perform these actions. Note that the accounts created are allowed access to these features, but do not have access to the administrative page that deals with the Django database.</p>	blah
4	List tweets about events and/or people via the app	<p>We were unable to track the precise tweets made from our application, but we have found an alternative that mostly works. As shown in the code snippet, the website makes a call to Twitter's search API, requesting all tweets that contain a certain hashtag as well as the hashtag #Meetup. The hashtags are the same as the ones used to get events from meetup.com. Once it has the tweets, it uses the id from each one to make another call to Twitter's OEmbed API, which sends back HTML that is used in the page's template to present embedded tweets to users. This still pulls a few tweets that are unrelated, but bit of filtering would work. Unfortunately this would be difficult, and is outside the scope of our project.</p>	blah

5	List tweets about events and/or people from twitter, but not via the app	<p>The website now has a tweet parser. As shown in the code snippet, it sends a call to Twitter's search API, requesting all tweets with a certain hashtag. The hashtags are the same as the ones used to get events from meetup.com. Once it has the tweets, it uses the id from each one to make another call to Twitter's OEmbed API, which sends back HTML that is used in the page's template to present embedded tweets to users. The search results currently contain all instances of the hashtag requested, even when they are not relevant to any event, or even open source. The search needs refinement, however, this will be difficult, and is not within the scope of the project</p>	blah
6	Export a list of people with information	<p>When taking on this requirement we quickly realized that the Meetup API would not provide email address for its users which was understandable. We then looked at what other information would be useful to extract about the people that were loaded into the database. This lead us to export information such as name, twitter handle, bio, Meetup ID, URL, country, state, and city. The export can be executed by clicking on the 'Export Info' button located in the top left of the people page and creates a file in a XLSX format which can be directly opened or saved.</p>	blah
7	Improve hashtag searching of application for better results on relevant events	<p>The solution to this issue was to change one word in the call to the meetup.com API. In the API there are many different restrictions you can use to request events. Two of them come into play here: "text" and "topic." The text query searches through the content of the events, while the topic query looks at the topics related to the group. The original query was looking at text, which resulted in a lot of unrelated events. The query was fixed to use "topic," which has reduced unwanted events significantly. A thorough examination of events imported resulted in no unrelated events pulled in.</p>	blah

8	Implement a system of finding events nearby a location entered or within radius of the user	<p>This tool creates a list of all events parsed through the application and displays a marker for each even onto the Google Map displayed to the right of the lists of events. A user can search for a specific event by looking through the list and then seeing where this is on the map. This feature also asks the web browser of the user for the geo-location of the user in order to place a special marker on the map showing where the user is in reference to the rest of the markers. The user can decide weather or not to accept giving the their location to the application. The map is generated through Google Maps by using the Google Map API calls. This map was implemented with a search bar allowing the user to search for a location and see what events are in that location. With each search the map jumps to the searched location and is given a 200 mile radius circle to show what events are within 200 miles of the user. In order to get the markers of each event to show up on the map the latitude and longitude of each event needed to be stored and accessed by the map. This was done by a Meetups API call as shown in code snippet 3. Once the API call is made the json object is returned and parsed to obtain information on the event including name, longitude, and latitude. Once the information is stored it is accessed in the JavaScript for the Google Map which can be seen in code snippet 4 below. This is done by looping though a list of events and gather the name, longitude, and latitudes in order for the markers to display. When a user hovers over a marker on the map the name of the event is shown. When there are no events imported a message stating "No Events Available" is displayed.</p>	blah
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9	Add feature to generate a profile for community developers to have contacting information easily visible	<p>The main goal of the tool is to promote community development in the open source scene. What this feature tackles is a way to display important information about people that are already involved with projects to those who would like to get involved. This feature generates profiles for event hosts along with members of groups that have been imported by the user. These profiles consist of the of selected person, Twitter handle, location, link to Meetups profile, last activity date, group associated with, topics they are interested in, a biography, and a picture of themselves. In order to gather the information for these we had to make another API call to Meetups. First, we had to adjust the current API call for importing events to also gather the ID of the event hosts. Once this ID was obtained the next step is another API call gathering information on each event hosts while searching with the ID's gathered. Once this information was obtained the profiles for event hosts and imported group members could be displayed in their own sections of the application. With users having the options to see group members and event hosts there are more opportunities for these users to get involved.</p>	blah
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10	Improve the visuals of the tool and how it looks as a whole.	<p>The application itself began as a fairly organized piece. The navigation bar implementation really helps the user keep track navigating between each page.</p> <p>When viewing the list of events, the events are listed in chronological order starting with the most recent. There is a search bar available for the user to type in for a certain event that they wish to view. There are other sorting mechanisms to view those events in another sorting order. Our focus in this requirement were to mainly to improve how data is displayed. This specifically applies to the event page and people profiles. Along with the addition of the Host objects, the generated host profiles would have a visual update as well. As displayed in Figure 9, the improvement of the profile page is shown with categories specifically labelled and displayed in concrete areas of the page. If the certain variable does not exist, then the user can clearly see where that detail would go on the page. Topics are more clearly organized have are configured under a scrollable table as well. Overall, this addition makes the people profile page much more organized and legible. In addition to the updated people profile page, the event page is also upgraded in Figure 10. Similar to the profile upgrade, the event page now has categories that specifically detail where objects belong. This is much more particularly important where the description is displayed for the event. Previously, it was much more difficult for the user's eye to view where the venue of event would be. Now in this update, that portion is clearly labelled which allows the user to spend less time reading and to quickly see the information that they want to.</p>	blah
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A. Discussion on Design Document

Blah blah blah discussion will go here.

B. Discussion on Tech Review

Blah blah blah discussion will go here.

IV. BLOG POSTS

Fall 2015 - Week 3 - Blog #0

Wednesday, October 14, 2015

PROGRESS: The rough draft of problem statement has been completed; we are waiting for Ross's input before submitting it to Kevin. **UPDATE:** We have successfully finished the problem statement document and were able to get it signed by our client before 12 PM on Friday 10/16. The final document has been uploaded to SharePoint and turned in to room 2098.

ISSUES: We've had issues involving getting a hold of our client as he has a very busy schedule. We expect to hold a meeting Thursday, October 15th at around 11:30 to discuss finalizing our problem statement and answering questions. **UPDATE:** We also had a problem getting the document signed as we needed to change the wording of our signing agreement but this was easily taken care of.

FUTURE PLANS: We plan to begin developing our requirements document. This includes setting up a meeting with our client Ross, discussing requirement details and implementation details.

Fall 2015 - Week 4 - Blog #1

Wednesday, October 21, 2015

PROGRESS: We gave our client Ross, expectations from him as well from the group. We've also started on our requirements document and got more familiar with the prototype and brainstormed ideas for our user stories. We created our meeting times for our TA.

ISSUES: We still have not received contact from our client this week, but we expect to hear back soon. There are still some confusions on what requirements should be on the project in the scope of what we think and what our client thinks.

FUTURE PLANS: We plan to meet up next Monday at 5:00 PM to finish the requirements document to send to our client for approval. Each individual group member is preparing their own user stories before our Monday meeting.

Fall 2015 - Week 5 - Blog #2

Wednesday, October 28, 2015

PROGRESS: We completed the rough draft of our Requirements Document. We received feedback from our client about correct priorities in the requirements tasks and we plan to email him our rough draft to look at the rest of it. We have met with our TA and discussed about communication issues. **UPDATE:** We were able to finish the requirements document and get it signed by Ross. There was thought of giving the assignment another week as Ross came up with some more requirements but we decided to just stick with the requirements we have so far. We did this because Ross felt we could just keep adding to it thus we will just stick with this baseline.

ISSUES: Communication exchanges have been occurring once a week lately. We expect responses more timely once the project and documents get going.

FUTURE PLANS: We plan to have another Skype conversation with our client discussing meeting times and clarification on Requirement Document and future documents due. **UPDATE:** We are now working on our technology review to find out if there is any other technology we will use other than what Ross has already provided.

Fall 2015 - Week 6 - Blog #3

Wednesday, November 4, 2015

PROGRESS: Currently, we have completed our Requirements document and will submit the draft to Kevin and Nels to review and see for suggestions on edits. We have discussed about how to tackle the technology review. Currently, for the pieces of our project we have come up with three pieces.

- 1.FRONT END: This is our website and what the user sees and the interface that they can interact with.
- 2.BACK END: This is our database center of where we keep track of all community groups and leader profiles.
- 3.NETWORKING: This includes the technologies required to interact with social media (currently includes meetups.com only).

ISSUES: We need to come up with one more piece to fill up all four pieces for the specified requirement that Kevin gave us. We are having some trouble figuring out which technologies are used, or currently are being used for some back-end and networking pieces on the prototype.

FUTURE PLANS: We plan to email Ross about specified technologies involving the back-end and networking side of the prototype. We also want to ask for another piece that the project uses so that we can specify it in our Technology Review. We plan to divide up the technology review to split the responsibility for each person to write one page per piece and collaborate on the final one. We plan to meet back on Monday to finalize our draft and submit it to Kevin and Nels to give them a day to take a look at it before submitting our final draft.

Fall 2015 - Week 7 - Blog #4

Tuesday, November 10, 2015

PROGRESS: We have completed the technology review. We've updated our Requirements Document is now to date. Input from both Kevin and Ross was helpful to organize our project and put into perspective of the technologies used. Currently we've added finishing touches to the technology review and discussed on methods to approach and design the Poster Board.

ISSUES: Since Wednesday is Veteran's Day, all of campus is closed so we are not able to meet up with Nels this week.

FUTURE PLANS: We set up meeting times to have a video conference with Ross next Monday at 4:30 PM. We will discuss and talk about any concerns coming up so far and questions that we have regarding upcoming deadlines approaching.

Fall 2015 - Week 8 - Blog #5

Wednesday, November 18, 2015

PROGRESS: We were able to have a conference with our client Ross. We caught him up with everything up to date and made sure that we told him new and current deadlines from class as well as personal dates to submit our drafts to Ross for review. We finished our draft of our Poster Board and submitted it on time. After meeting today, we got a good start on our Design Document and began discussing our elevator pitch that we are scheduled to present on Thursday of dead week.

ISSUES: We still aren't too clear on exactly what we are to discuss for our "Body" portion of the Design Document. Finding time to collaborate together on the document for a significant amount of time before the deadline will be difficult.

FUTURE PLANS: We plan to meet Monday of next to work and hopefully get a good part of the Design Document completed so that we may submit it to Ross for review. We plan to try to run the provided code in the prototype to learn more about its design that would help us to better understand the infrastructure of the project.

Fall 2015 - Week 9 - Blog #6

Wednesday, November 25, 2015

PROGRESS: Our group accomplished a lot during week 9. We were able to create our elevator pitch by giving each other parts to remember during the presentation. We have three sections which are a problem, a solution, and why it works. We also made a lot of progress for our design document as we are getting a rough draft ready to send to our client Ross on Monday November 30th which we hope to have a rough draft that is very close to being a final version. We also successfully practiced our elevator pitch and are ready to present when called on.

ISSUES: The issues we ran into during this week were when we worked on our design document as most of the designs a little difficult to construct as we needed to first figure out how the current implementation works. We will need to figure out exactly how the current prototype is working in order to make sure our designs will work correctly.

FUTURE PLANS: Our future plans will be to present our elevator pitch on Tuesday December 1st as we should be called on this day. We also will be sending off a rough draft of our design document to our client Ross on Monday November 30th. Next week we plan to have our design document completely finished by the end of the week and the progress report finished by Sunday December 6th.

Fall 2015 - Week 10 - Blog #7

Wednesday, December 2, 2015

PROGRESS: After two consistent days of meeting and planning our work, we have just about completed the design document and are currently finishing up the progress report as well. Monday consisted of working on the majority of the design document in terms of formatting and preparing to show Ross our rough draft. We had a Skype conversation with Ross scheduled at 4:30 on Monday and it went very well. Ross provided great input in terms of more clarifications of our listed requirements and issues as well as providing some ideas for the future on how to tackle the implementation of most of the requirements. Tuesday consisted of our presentation of our elevator pitch and a quick meeting of what to preparation of what to have done for our meeting on Wednesday. With most of our progress completed by Monday, we were able to send both Ross and Kevin early rough drafts of our design documents for them to take a look at before submitting it for grading on Friday.

ISSUES: Currently, we have not received any response by email from either Ross or Kevin, but Ross had already given some input from initially looking at our rough draft over Skype and Nels had given some of his thoughts at our TA meeting on earlier on Wednesday as well.

FUTURE PLANS: Progress looks great and we plan to complete both of our progress report and design document by the end of Wednesday for an early submission. If any of our members spot an issue before the deadline, we can easily fix that and resubmit it with time to spare. With our meeting with Ross, we were able to schedule regular weekly meetings with him every Wednesday at 10AM for progress reports and inquiries about the prototype.

Winter 2016 - Week 1 - Blog #8

Thursday, January 7, 2016

PROGRESS: After having our Winter Break, we met up and discussed plans for weekly meetings and deadlines after our 8AM lecture. We were able to set up the local host on two of our systems while still working on one more. We have a mock up the user interface for most of the buttons and links of the website and are beginning to develop our requirements. We set up a Git repository for our local system that develop with and eventually push onto the existing prototype.

ISSUES: We still need our third system working correctly with the local host. It is difficult to install on Windows, so we will use VMware to host it. We were unable to meet up with our client Ross for our weekly scheduled meeting. We have not been in contact our client since before the break.

FUTURE PLANS: We are waiting for a response from Ross by email and to hopefully meet with him next week. We plan to begin developing on the local host for the requirements. We decided our official meeting days for our group are Mondays, Tuesdays, and Thursdays.

Winter 2016 - Week 2 - Blog #9

Thursday, January 14, 2016

PROGRESS: As a group we were able to successfully load Docker onto all of our machines. Two of our group members had to load on to a virtual machine to run Linux to use Docker and to locally host the server. The week consisted of getting familiar with the project as well as beginning development of the website and its features. Plans to complete all of basic functions before Alpha stage is running smoothly. Currently a few more buttons are needed to complete all basic pages for the website.

ISSUES: Contact with Ross has been difficult. Exchanging emails have been working, but a Skype call is still needed to more clarification. A slight misunderstanding in scheduling has halted our regular meeting schedule but plans to have that solved by our next meeting date look good.

FUTURE PLANS: We are looking to complete all basic functions soon and to begin working on all of our requirements for Beta stage. We plan to have our meeting on Wednesday with Ross to clear most of our questions up.

Winter 2016 - Week 3 - Blog #10

Thursday, January 21, 2016

PROGRESS: This week was an interesting week for our group as we ran into some interesting problems. The progress that we did make was getting code ready for the nearby location requirement and it seems to be working well. Another good point from this week is that we were able to have our weekly meeting with our client Ross and we decided on a new branching system for our GitHub repository that helps a lot in development for our client and us. We also updated our requirements document with better language to make sure it is easier to read when looking at our requirements. We only have 3 to 4 more requirements that need to meet the alpha level as we have successfully completed the profiles for users that are hyperlinked with their names.

ISSUES: The issues we ran into this week were sickness and injuries. One of our team members got injured and could not attend our normal meeting time and another had to stay home sick thus we were not able to meet at least twice this week as a group which slowed down production. Another issue we ran into was the geolocation tool running into bugs and now showing up on the web page but we are looking into it.

FUTURE PLANS: Our future plans are to continue developing and finish the requirements to reach an alpha level presentation which we hope to have accomplished by the end of next week. Then we will begin the beta level implementation of features. Next week we hope to only have 2 requirements that need to reach alpha level by the time we meet our TA on Wednesday. We also plan on meeting three times next week to get things back on track due to the problems of this week.

Winter 2016 - Week 4 - Blog #11

Thursday, January 28, 2016

PROGRESS: This week was productive in terms of achieving a solid status on the Alpha phase of our project. We were successfully able to implement most if not all of the initial buttons on our site that directly links to either the intended requirement, or to an "Under Construction Page" for further development. That page was created to make the site more functional in the sense that it is still continually being worked on and that that part of the page is not yet complete. After taking a look at the overall requirement for the Alpha stage, we can be confident enough to have this presented by week 6 and we are beginning to work on the progress report document and the video that goes along with it. Our meeting with Ross was great in terms of clarification and what he expects of us at this point.

ISSUES: Currently our main issue is the implementation of the geo-location service of determining the location of the events and creating a specific mile radius to display to the user events nearby their location. We have code from a previous prototype by Apache that Ross provided to us, but trying to understand another coder's is really difficult so we as a group are figuring out different ways to approach this problem. This implementation is geared more towards the Beta stage, but the faster this problem is completed, the better situation we would be in for the future.

FUTURE PLANS: We plan to complete the required documents for the Alpha stage and to create our video to present as well. In parallel to that, we want to continue to develop our project and try to complete that location service as soon as possible, but at the same time completing the rest of our project.

Winter 2016 - Week 5 - Blog #12

Thursday, February 4, 2016

PROGRESS: For this week we have started to work on our midterm progress report document and are finishing up that portion of the assignment. We have organized the document into different sections beginning with the requirements, to issues while developing the application, to significant portions of code for the document. We also had our meeting with both Ross and Nels on Wednesday to both update our current progress on the assignment and clarify certain questions that we had. Communication with Ross has been solid and we are getting good feedback on certain issues that we have been facing on parts of features that we are trying to implement.

ISSUES: Unfortunately, we cannot have host our application on our ONID webpages because the Oregon State pages are not compatible with Django. We also unfortunately heard from Ross that he cannot provide us with a host for our application through Apache as well. This issue is not particularly too important because our source files are still on GitHub. It is just a little inconvenient for Ross to view our changes via pulling our local files.

FUTURE PLANS: As a group we plan to have finishing touches on the progress report soon and to begin recording for our finished presentation video portion. We plan to have that completed before Wednesday so we can both show to it Nels and Ross before the submission deadline.

Winter 2016 - Week 6 - Blog #13

Thursday, February 11, 2016

PROGRESS: Week 6 consisted of the completing documentation for the Midterm progress report and to begin and finish the video presentation that follows along with the report. As a group we spent about 2-3 work days' worth of work on the report and about 2 days of work on the video in total. Completing these two assignments within the deadline proved to be fine with estimated scheduling exactly the amount of time needed in order to show a rough draft to Nels for feedback. We were able to get good feedback from Nels for our format before the deadline and make appropriate changes before turning it into SharePoint and my own public html. We began recording the video presentation on Monday earlier this week and did not finish until the end of Tuesday. Editing was done overnight and we were able to complete the video project before Wednesday before our meeting with Ross.

ISSUES: There were not that much issues while working on these two assignments. The only issue was working on the video and getting all of the film done in the allotted time. We underestimated the amount of time it would take to get all of the recording done while renting out the audio recording studio in the library, and were lucky enough to find a room for the very next day to finish up recording.

FUTURE PLANS: After submitting our report and video presentation, we will begin to start development once again on the project and hope to complete Beta stage before the end of the term. Right now we are just on schedule with development, but the long stretch of requirements to fulfill before Beta deadline will be difficult to pull off.

Winter 2016 - Week 7 - Blog #14

Thursday, February 18, 2016

PROGRESS: With development in full progress, we've dedicated different requirements for the three of us to focus on getting as much implementation as possible. Justin's focus has been to work with the meetups API and accessing twitter handles that are within registered users for meetup.com. Megan has been handling the task of looking at the code that generates the People's page and improving the way that it generates its table and people and accessing why it is so slow on the actual prototype. Hai's task was focusing on the login and account creation page to access the backend of the user profile and to be able to successfully register users onto the database. As a group, we managed to complete the login and registering of user accounts of the webpage. Additionally, we were able to locate the jQuery data tables that contained the algorithm to generate the table of people and access where exactly the bug is happening. Finally, we were able to pull in the twitter handles of the user accounts from meetup but not yet into the backend database.

ISSUES: For the user and account creation, we have yet to implement the ability to extend the user accounts from the five basic attributes. Earlier methods to accomplishments are outdated compared to the current 1.9 version of Django. For the People's page generation, we have moved where the data is generated to after the table and everything is created. Unfortunately, there is no way to test this fix on the local prototype because the issue only occurs on the Apache hosted side. Finally, getting the twitter handle to show on the website is the current issue that is not yet to be determined for its reason.

FUTURE PLANS: Plans to complete these parts of the requirements are important, but they should not take our full attention compared to the overall project as a whole. Getting the basis of these requirements functional are just the main focus so we can begin to build the rest of the requirements because some of them depend on another requirement to be completed, such as implementation of user accounts to save location basis. These task are next on the priority list.

Winter 2016 - Week 8 - Blog #15

Saturday, March 12, 2016

PROGRESS: This week the team was able to complete different components of the requirements that everyone was assigned. Justin was able to successfully complete the tweet at a person requirement by figuring out how to use the Meetup API in order to pull the Twitter handle of the people that were being imported into the website. With that he was able to link the button on the people page to setting up Hootsuite which sends the tweet to the user. Megan was successful in having the people page fixed. By finding a bug in the prototype she was able to move some code around that led to the problem being solved, at least locally, for the people page. Hai successfully got the create accounts working along with login which makes it

so that only if you are logged into the application you can use the actions buttons for the tools. This means if a registered user is not logged in when they go to perform the import meetups action the button will not be displayed but as soon as a registered user logs in the buttons will be active.

ISSUES: The issues we came across this week were mainly the standard issues a development team usually comes across. Justin was having an issue storing the twitter handle response he was getting from the Meetup API but eventually figured out where the problem lied. Hai was having trouble getting a model to work for the Django application but eventually was able to find out where the user authentication was happening in order to have the ability to create accounts and login/logout.

FUTURE PLANS: For the next week we plan on working with the search event by location requirement which will be handled by Justin. We also plan to get the exporting of information for people that have been imported completed as well which will be done by Hai. We also would like to take a look at the list tweets via/not via the application which will be handled by Megan.

Winter 2016 - Week 9 - Blog #17

Saturday, March 12, 2016

PROGRESS: This week we had a good amount of progress made. Hai successfully implemented the exporting of people information via an XLSX file which can be viewed on all operating systems as most can read a CSV file so that should work well. The exporting shows the file containing information such as twitter handle, name, bio, location, and URL associated with that person. This is implemented fully in the button that was placed for Alpha. Megan has been working hard to get the Twitter API to work with her in listing some tweets on our application. There has been some struggle but she has been able to display a list of tweets associated with the hashtags we are searching with but now we want to be able show tweets that are from people who tweeted about the events. Justin was able to get a map to show up on the application as he has been working with the Google Maps API and was able to get a search box associated with it for typing in different locations.

ISSUES: The main issues from this week were just more coding bumps as you would expect. Justin was running into issue with getting the correct locations of the events from the Meetup API as it was only pulling the groups origin location which is not good for displaying that on the events location page. Megan was struggling with the Twitter API as it does not have very good documentation and was not easy to understand right away.

FUTURE PLANS: For the next week we would like to focus our attention on completing the search event by location requirement and the list tweets about events on our application requirement. Hai will also be starting to look into improving the hashtag search as well to get even better results.

Winter 2016 - Week 10 - Blog #18

Saturday, March 12, 2016

PROGRESS: This week we were able to make a log of progress on our requirements. Justin has successfully implemented a map feature with search functionality that displays the events that have been imported as markers on the map. This will allow the user to search for a location to see what events are near that location. The application also uses geolocation to find out the position of the user from the browser they are using and displays their location on the map. Megan has also made a lot of progress on the list tweets requirements as she is successfully listing the tweets about the tweeted by the users that we have imported and related those with the hashtags we have set up. Hai also has improved the hashtag searching which will mark that requirement as complete as well. Justin was also able to add the Twitter handle to the people's profiles that are generated to have a way to make contact from developers to those people. This way that requirement is completed as well. This means for all of our requirements we have successfully completed Beta level functionality in all of our requirements.

ISSUES: The issues that we ran into this week were just struggle with the API calls but throughout the week we really buckled down and got a lot of our requirements done.

FUTURE PLANS: For the next week we plan to finish up our final report and presentation for winter term which will include everything we have done with our project so far and proves that we have beta level functionality. Our client Ross has been very happy with our progress and has been loving what we have accomplished thus far. He would like us to create patches for the project itself which we plan to do as well as we begin to make tweaks and finishes to our requirements to reach Version 1.0 level functionality.

Spring 2016 - Week 1 - Blog #19

Wednesday, March 30, 2016

PROGRESS: Heading into week 1 of spring term we had a great start in getting our version 1.0 release finished. Throughout the week we found time for all of us to meet for 3 hours on Monday's, Tuesday's, and Wednesday's along with setting up a time to meet with our TA every week. After we completed setting up schedules we immediately began working on code. We have already polished up some login features so now it lets you know when you have successfully logged out. We also completed the tweet at a person listed in the database requirement by getting rid of the tweet at person button when said person has no twitter handle to tweet to. Then we began working on the other requirements but already have two down.

ISSUES: The issues we ran into this week was having some group member feel under the weather and having to power through to get stuff done. We have not really met big issues for this week.

FUTURE PLANS: We are continuing polishing requirements as Megan is finishing up the list tweets via/not via the app, Hai is working on completing the login and logout so that the first and last names of the users are saved correctly, and Justin is working on displaying people that are hosts of events for more accurate community leaders. We plan to have these items completed by next week along with having our first TA and Client meetings of the term on Wednesday, April 6th.

Spring 2016 - Week 2 - Blog #20

Wednesday, April 6, 2016

PROGRESS: During our second week of spring term we have made some more progress. We have been able to make progress in polishing the tweets that are listed on our website that Megan has been working with. Tweets are now displaying with some organization. She has implemented a dictionary of tweets that have been imported and she is continuing those two requirements of listing tweets via and not via our application. Hai and Justin were able to get a list of event hosts to display on the application along with the events they are hosting. This list is located under the people page tab and the person profile generation requirement is nearly polished.

ISSUES: The issues we ran into this week were a lot of coding bumps. Hai and Justin were running into difficulties adding fields to the Django models which stopped them from getting a list of event hosts from being able to display on the application. After a couple of days of tampering with the code they were able to get the correct information stored with a correct API call. Megan has run into some issues with displaying the dictionary of tweets she has imported but is slowly making progress with it displaying at least text.

FUTURE PLANS: In the next week we would like to complete the profile generation for the event hosts for the people profile generation requirement to be completed. We would also like to continue with the listing tweets requirements as they are near completion. Also, we will be finishing up the event search by location requirement.

BOOTH PLANS: For our expo presentation booth the items that we would like to have is two large screens (monitors) and 2 power strips just in case. We plan on presenting our website using the laptops we own and the screens provided as displays. We also plan to use our own mouse so that will not be needed either. Since we are just displaying and walking through our website we don't need much for the booth except for being close to a power connection and 2 large monitors to display everything on.

Spring 2016 - Week 3 - Blog #21

Tuesday, April 19, 2016

PROGRESS: After our third week of developing for the version 1.0 release we actually accomplished a lot. Justin was about complete the event hosts profile generation that is accompanied by an import hosts button that will import the hosts of the events that have been imported. Hai has been getting further along with the event by map search implementation and plans to have that done by the end of next week. Megan has been finishing up the tweets requirements and plans to have those done next week as well.

ISSUES: The issues we ran into this week was scheduling confusion with our client. We originally had meetings starting the Wednesday of week 1 for this term and going till June 15th just in case. Our client accidentally mixed up the dates and thought we were starting our meetings on June 15th which is not good. We will have to figure out another time for us to have our weekly meetings. We also ran into a coding bump of importing topics for event hosts.

FUTURE PLANS: For the next week we plan to finish the events by distance search and map implementation, the tweets application, and the exporting list functionality for the event hosts. We also plan to finish up our poster in week for and have that ready for Kevin by the 26th of April.

Spring 2016 - Week 4 - Blog #22

Thursday, April 21, 2016

PROGRESS: This week was a very good week for our project. Justin was able to complete the profile generation requirement of event hosts including specified topics for those hosts. Megan and Hai were able to get sections of the HTML working for the listing of tweets and now they display much better than they were which completes the listing of the tweets requirement. We also were able to go through our poster one last time and make necessary tweaks so that it is ready for our expo presentation.

ISSUES: The biggest issue that we ran into this week was finding out that the best time for us to set up a new meeting time with our client was Monday's at 1:30 PM. This is not a bad time; the problem is that Ross will not be able to meet with us for the next 4 weeks which includes past expo. This puts us in an awkward situation of not discussing things with our client. However, we did come to an agreement to have an email sync at the same time we are supposed to have our meetings thus we should always be on the same page.

FUTURE PLANS: For the next week we are down to our last three requirements which are tracking if user tweets same person twice, improving the visuals, and adding a distance measuring by location search to the map for the events. We each have taken a task so we strongly believe that we will be able to get everything finished in a week or week and a half.

Spring 2016 - Week 5 - Blog #23

Saturday, April 30, 2016

PROGRESS: During the last week we have made a lot of progress with the visuals of the website. Hai was able to change the look of the events page, people page, and the profiles page of the event hosts and imported people. This has been a major improvement from the last version of the visuals. We have also made some progress with the tracking of a user tweeting by being able to tell when someone has clicked a button twice. This will help us from preventing a user from tweeting at a person or about an event twice on accident during that page interaction. The map feature seems to be our most difficult one at hand. We have added a radius to the map but we need to get it to work correctly.

ISSUES: The major issue we ran into this week was not being able to meet with our client at all. Not via Skype and he has not responded to our emails. We should still be able to make the deadline okay but it is a bump that we wish we could avoid. The other problem we ran into was the map feature not working as we would like for our distance implementation.

FUTURE PLANS: For the next week we will be submitting our poster before the March 2nd deadline. This will most likely be on Saturday April 30th. Then we will be finishing up the last couple of items for the version 1.0 release while finishing up our midterm report and presentation which is due on March 6th.

Spring 2016 - Week 6 - Blog #24

Wednesday, May 4, 2016

PROGRESS: In finishing up our 6th week of this spring term we have made it to the point where we have a version 1.0 ready project. The three main requirements we needed to finish were the visuals, map, and tracking tweet button actions. As we continued we found that tracking the tweet button was not going to accomplish the ultimate goal of tracking a user tweeting so we decided to not go with this idea with approval from our client. The next item was the map and events searching. Instead of having the table display the events closes to you we decided to put a circle around a certain radius to give the user a better idea of how close events were to them. In this we have completed the map requirement. The last requirement for improving the visuals we have decided to skip the user studies as this was not very important to our client. We did complete the task as we improved many pages to look cleaner and have the information spread out in a nicer manner. With this we have completed our version 1.0 by completing all requirements.

ISSUES: The main issue that we ran into this week was communication with our client. Our client is very busy with travel for the next couple of weeks and has had very slow responses to our questions. Thus some items we had to take into our own hands/interpretations in order to complete requirements. We have been emailing without client to get things cleared up but it still poses problems.

FUTURE PLANS: For the rest of this week we will be submitting our midterm progress report for our version 1.0 release with our slides, video presentation, and our paper as a latex document. We plan to submit all of this on Friday morning (May 6th). After that we will be creating small patches for the requirements we have accomplished to give to our client for final submission. After that we are just looking forward to Expo.

Spring 2016 - Week 7 - Blog #25

Thursday, May 12, 2016

PROGRESS: During this week we were able to find out where our table will be positioned during the engineering expo. We also were able to get a patch of all the features we have added to our project and will be sending that over to our client Ross. We are officially done with development and are in the final preparations for expo.

ISSUES: The only issue we came across in the last week was submitting the patch file to where our client would like it. The Apache website we are submitting it to is having some issues when we try to submit our patch. We plan to work through this with Ross even though he is very busy for the next couple of weeks.

FUTURE PLANS: This next week we plan on meeting to discuss what we will be saying at expo so that we are prepared for whatever questions we receive. We will also be finishing the submission of our patch once the upload issue is resolved. Heading to expo is the next big step.

Spring 2016 - Week 8 - Blog #26

Wednesday, May 18, 2016

PROGRESS: This week we have successfully submitted the final patch file to the Apache website our client asked us to submit it to. With this done we are waiting for the patch to be approved and applied to the live project. Our client informed us to keep hounding him about it so that the patch can be applied before the June 9th submission of our final report just so we have our official final product to show. We also picked up our poster and took it to Kevin's office. Now we are just waiting for 2 days to present at Expo.

ISSUES: The issues we ran into this week were just trying to figure out what questions we should practice for expo. Ultimately we continued to come up with questions to make sure we were best prepared to present at Expo in 2 days.

FUTURE PLANS: To continue this week we will be presenting at Expo on Friday, May 20th and then in the following we plan to start on our final report including taking all of our documents and converting them into a Latex document.

Spring 2016 - Week 9 - Blog #27

Tuesday, May 24, 2016

PROGRESS: This week we have successfully presented our project at the 2015 - 2016 Engineering Expo and are officially done with development and presentation preparation. We have also submitted our patch file with all of our new features to Apache thus we have completed our project. We are currently working on the final paper along with the final presentation.

ISSUES: We have not run into any issues during this week as we are just finishing up our final report and presentation.

FUTURE PLANS: This will officially be our last blog post due to the plan of having the paper and video presentation done by next week. We plan on turning in everything on Monday of finals week. We all have enjoyed this project and want to thank the university for getting us involved in such a great event.

Introduction

The open source community has had a major impact on the computer science world as it is one of the biggest opportunities to learn about, create, and contribute to software creation. The biggest reason why we decided to undertake this project was to have the opportunity to create tools that will help grow the open source community as it is a great way to give back to a community that helps the field that we are obtaining our undergraduate degrees in.

These tools will be able to present eager developers with an opportunity to find exciting projects and see who are apart/creating these projects.

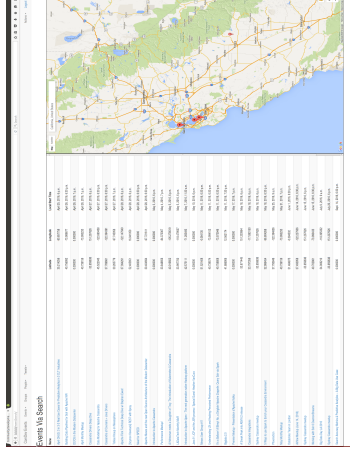
Background

- A prototype had already been implemented prior to beginning the project.
- Many of the technologies were already decided and implemented in the prototype.
- Our goal of the project was to fix and implement new features to aid collaboration of new/current open source projects



Front page of project as of November 16, 2015

Community Driven Development Tools Supporting Open Source Community Growth



Project Description

The website features many different tools that are used to find events relating to open source projects. These tools also give developers a chance to see leaders/members of events and gives them key information in order to get involved.

- Pulls data from Meetup.com, Twitter, and Google Maps
- Identifies community leaders to people who love to improve a specific project
- Connects various data publicly available online to one source
- Provides users enough information to contact and engage with project leaders and assist them with their own unique skills
- Specific Technologies
 - Django
 - HTML
 - JavaScript
 - PostgreSQL

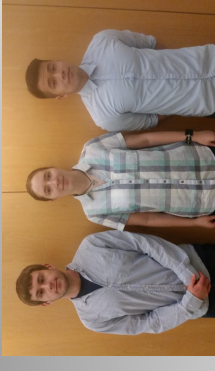
Features

- List events within a two week period related to Open Source Meetups and community groups
- Gathers information on members within a group
- Visual interface for viewing events by location via Google Maps
- Lists tweets with associated hashtags for Open Source
- Compose tweets directed at certain people or about events

REQ#	Requirement	Priority
1	Fix the "People" page where the list of community leaders are shown	High
2	Tweet at a person listed in the database	Low
3	Add user accounts to the application and have actions be hidden for accounts	Medium
4	List tweets about events and/or people via the app	Medium
5	List tweets about events and/or people not via the app	Medium
6	Export a list of people with information	Low
7	Improve hashtag searching of application for better results on relevant events	High
8	Improve the visuals of the tool looks as a whole	High
9	Implement a system of finding events nearby location entered or within a radius of the user	High
10	Add feature to generate a profile for community developers to have contacting information easy to view	High

Feature implementation priority list

Community Driven Dev



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Improvements and Results

- Added features to improve user interaction in finding and locating events.
- Improved interface where users can register and update important events.
- Gathers information from not only meetup.com, but now Twitter as well.

V. PROJECT DOCUMENTATION

VI. HOW DID YOU LEARN THE NEW TECHNOLOGY?

Throughout the presentation of our tools to our client Ross Gardler we were happy to hear that he was really excited about the progress we have made thus far. In his excitement in seeing how far we have come with the tools and the progress he has seen Ross began asking for feature requests to be added to the tools we have developed thus far. We decided to add this section to our report so that we could reference Ross's confidence in our team to make these requests possible if we have time. These requests are for future ideas for the tools as our client also would like us to submit patches for the tools that we have made thus far as he approves of the work we have done. We will be completing these patches and getting them to Ross. The requirements that have had feature requests proposed are shown below.

VII. WHAT DID YOU LEARN FROM ALL OF THIS? (JUSTIN BRUNTMYER)

A. *What Technical Information Did I Learn*

VIII. WHAT DID YOU LEARN FROM ALL OF THIS? (MEGAN GOOSSENS)

I learned quite a bit from this project. On the technical side, I learned a lot about interfacing with APIs, and how documentation can either make them easy to use, or an absolute pain to use. On the non-technical side, I learned about writing even better reports, as well as how to explain our project in ways that make it easy for people outside the open source community to understand. In project management I learned things like how frustrating it can be when your client is hard to contact. If I had to do it all over again, I would work harder to understand exactly what this project is about. We spent a lot of time trying to understand what our client wanted from each requirement, time that would have been better spent fulfilling them.

IX. WHAT DID YOU LEARN FROM ALL OF THIS? (HAI NGUYEN)

X. PROBLEMS ENCOUNTERED

Throughout this term we have encountered many problems that have impeded our progress for this project. This was to be expected as with all projects. Events occur that can halt progress and bring forth challenges that, as a group, we needed to overcome. The problems that we have faced are listed below along with the methods we used to get through the situation. We also ran into the occasion coding block where we would have days where not much progress was obtained. However, we feel this did not impeded our progress as it is just part of being a computer scientist.

A. *Problem 1*

Deciding which platform we were going to be developing on using Docker. This was a major issue as we originally planned to work with the Windows operating system however we could not get the application to run locally on a Windows platform. We continually ran into errors with creating a local database along with having the right Docker tools to support the application. We had available resources such as a README file that gave insight on the problem but whatever we tried did not seem to work. We eventually shifted gears and decided to try Docker and the application on Linux, specifically Ubuntu 14.04. Thanks to the Linux knowledge of Megan Goossens and plenty of online documentation we were able to get Docker installed successfully along with running the application on a local host. From this point we decided to continue developing in the Linux environment.

B. *Problem 2*

At the end of the Fall 2015 term we set up a weekly meeting with our client throughout Winter 2016 to discuss implementation details for the week and planned to utilize this time to make sure everyone is on the same page. Due to some miss-communication we were unable to meet with our client for the first two weeks. This halted our progress with because we had a lot of issues with getting Docker to work with Windows and we were counting on a meeting with our client to resolve those issues as soon as possible. We eventually got in contact with our client and figured out what was happening as the first week our client was on an unexpected trip to the UK and in the second week our client did not realize that these meetings occurred every week throughout the term. These things happen and once we all had a chance to get on the same page every weekly meeting is going smoothly. This problem also happened at the beginning of the spring term. A new weekly meeting time was set up with our client however our client believed that our first meeting was in the middle of June. This was a problem as we tried to set up a new meeting time but our client was very busy with travel and vacation that we were not able to meet with him three weeks prior to expo. Email communication was very difficult as well.

C. Problem 3

During week three of Winter 2016 we ran into the issue of meetings being cancelled due to illness and injury. One of our team members experience an injury that caused a full group meeting with a TA to occur which halted our progress in having to get everyone caught up on the same page. This same week another group member became sick and could not make it to two meetings for the week which meant that two people could not make it so two meetings were cancelled out of the weekly three meetings we have as a group. However, we were able to work individually at home but it was still a noticeable disruption from the normal work we produce in a week. It did not seem like it was going to effect the group at first however when we began to get back on track it took some adjustments to makes sure everyone was on the same page and try to make up for the week we missed.

D. Problem 4

During the first week of the term we began developing based on the requirements we had listed in our requirements document. The problem we ran into here was that we had issues understanding what are requirements were trying to say thus we went through the document and changed the language used for the requirements. This did not change the requirement but it made it easier to understand if someone is reading through it. This took a days worth of progress which was frustrating due to the fact that we believed to have this done last term. We currently are happy with the updated requirements document as it has been approved by our client, professor, and TA. This halted our progress by being an unnecessary step in the implementation process as it should have been completed last term.