

Merquetry Project Plan

Team Green

Amy Nguyen
Jackeline Maldonado
Jacob Darensbourg
Rachita Gehi
Tina Bui

March 2016

Table of Contents

1. Statement of Work	3
2. Stakeholder Analysis	4
3. Technical Constraints	6
4. Work Breakdown Structure (WBS)	
4.1. Quarter 1	7
4.2. Quarter 2	10
5. Time Estimates and Annotations	12

1. Statement of Work

Viant Inc. is an internet marketing service that helps companies who are subscribed to their services advertise more accurately to their consumers. Currently, Viant has collected massive amounts of data, but they have no cohesive way of organizing or accessing it. Our task is to create an internal data exploration tool that would allow their personnel to easily access the data, regardless of whether or not they understand coding or SQL.

Currently, only a handful of employees at Viant have access to the data. Others who need information must ask those with access to run a query, collect and format the data for them, which inconveniences both parties. Also, information is stored in Google BigQuery, which requires knowledge of SQL.

Viant has requested for a tool that would pull data from their database and allow users to filter or traverse through data points. This tool would allow their employees easy access to the data without the need of knowing SQL. Our goal in creating this tool is to allow those who need the data an easy way to access, sort, and organize information, minimizing time spent on each task and increasing productivity.

2. Stakeholder Analysis



2.1 Viant Engineers & Developers

A data exploration tool is needed because it will help engineers and developers, the teams that generate Viant's externally used products. Currently, Viant has access to over a billion user profiles that are updated daily. They also gain more profiles each day. As a result, they wish to see how this information is updated and correlate with one another. Therefore, the development and implementation of a data exploration tool that displays their vast database and allows traversing with the information will be an incredible addition to the work capacity of the engineering and developer teams.

2.2 Viant Team Leaders

These individuals are the primary driving force behind the project. Our primary contact is Chris Doe, the Senior Vice President of Emerging Media Products at Viant Inc. In the second quarter, our primary contact is Keith Reynolds. Since this tool will increase the productivity of the various teams working at Viant, the leaders of these teams have vested interest in the efficiency of their teams. Through their connectivity within the company, Viant team leaders have a great amount of influence on the growth of the project because they are providing our team with the resources we need to complete our work (i.e. the use of the Viant GBQ database, user interviews with various Viant

employees, aid in the development of the tool concept and actual execution resources). They will be directly affected by our work and directly impact our work, placing them into very important stakeholder positions.

2.3 INF 191 Teaching Staff

The staff (Hadar Ziv and Prabhu Rajasekaran) are serving as benefactors for this project. They have interest in seeing the work of teams being developed and in guiding the work to completion. They will continue to grow in their own abilities to lead and guide future students through the software development process. Through this, they will also be providing more opportunities in the future with other companies that are looking for software solutions. The teaching staff has a vested interest in not only this project but others as well.

2.4 Viant Inc. Customers

The customers of Viant Inc. will be affected by the work of this project due to the effect that our exploration tool will assure them that the data Viant possesses is valid. This conclusion can be made since an implemented data exploration tool will be able to showcase Viant's work more effectively as well as better communicate the goals and workflow of the company.

3. Technical Constraints

Currently, data is accessed using SQL and Google BigQuery. The system we will create will allow users who are unfamiliar with coding to still access and understand the data. Some constraints we must consider for our project are:

3.1 Maintainability

The system should utilize technology, tools, programming languages, etc. that the Viant development team have knowledge of to maintain the system once it has been delivered.

- Software/Language
 - The project will be written in JavaScript, JQuery, HTML, CSS and SQL.
- Documentation
 - The system should be well documented to ease the development team's efforts of maintaining the system.

3.2 Security

The system must never compromise any of the data Viant has access to.

- Test Data Set
 - Our team will be using an anonymized set of data to build our project around and run tests with.

4. Work Breakdown Structure (WBS)

4.1 Quarter I

1.0 Sprint I

- 1.1 Initiating
 - 1.1.1 Identify project tasks
 - 1.1.2 Prepare file structures
- 1.2 Planning
 - 1.2.1 Prepare project management tool
 - 1.2.2 Prepare group communication tool
 - 1.2.3 Prepare Git repository
 - 1.2.4 Create individual Gantt Chart
 - 1.2.5 Create team Gantt Chart
 - 1.2.6 Set initial meeting with sponsor
 - 1.2.7 Team bonding activity #1
 - 1.2.8 Prepare group communication covenant
 - 1.2.9 Prepare stakeholder communication covenant
 - 1.2.10 Prepare outline for project plan
 - 1.2.11 Prepare outline for business case
- 1.3 Executing
 - 1.3.1 Introductory meeting with sponsor
 - 1.3.2 Access Viant Email
 - 1.3.3 Create Business Case draft
 - 1.3.4 Create Project Plan draft
 - 1.3.5 Learn SQL
 - 1.3.6 Sign NDA for Viant
 - 1.3.7 Create Requirements draft
 - 1.3.8 Create a Trello and add tasks
 - 1.3.9 Create a shared Google Doc for Team concerns
- 1.4 Monitoring and Controlling
 - 1.4.1 Schedule a weekly escalation call with Viant
 - 1.4.2 Share Trello access with Professor and TA
 - 1.4.3 Share the Google Doc with Viant
- 1.5 Closeout
 - 1.5.1 Finish all Sprint I activities
 - 1.5.2 Submit Sprint I Report
 - 1.5.3 Create a plan for Sprint II

2.0 Sprint II

- 2.1 Initiating
 - 2.1.1 Meet with Viant and discuss goals for Sprint II
- 2.2 Planning
 - 2.2.1 Create a list of Assignments and share it with Viant
 - 2.2.2 Confirm Winter Quarter Scope with Professor Ziv
- 2.3 Executing
 - 2.3.1 Create Project Plan draft
 - 2.3.2 Create Business Case draft

- 2.3.3 Create Requirements elicitation questions
 - 2.3.4 Provide an availability schedule for user interviews
 - 2.3.5 Create Requirements Document draft
- 2.4 Monitoring and Controlling
 - 2.4.1 Set up a Google Account for Viant emails
 - 2.4.2 Access sandbox data through Google Big Query
 - 2.4.3 Set up user interviews with Viant
 - 2.4.4 Team bonding activity #2
 - 2.4.5 Team Presentation and Elevator Pitch
- 2.5 Closeout
 - 2.5.1 Finish all Sprint II activities
 - 2.5.2 Submit Sprint II report
 - 2.5.3 Create a plan for Sprint III
- 3.0 Sprint III
 - 3.1 Initiating
 - 3.1.1 Meet with Viant and discuss goals for Sprint III
 - 3.2 Planning
 - 3.2.1 Learn how to use Git
 - 3.2.2 Brainstorm ideas for Data Exploration Tool
 - 3.3 Executing
 - 3.3.1 Perform user interviews
 - 3.3.2 Finish Project Plan
 - 3.3.3 Finish Business Case
 - 3.3.4 Update Requirements Document
 - 3.3.5 Create Software and UI Design Draft
 - 3.4 Monitoring and Controlling
 - 3.4.1 Complete Peer Evaluations 1
 - 3.4.2 Team bonding activity #3
 - 3.4.3 Team Presentation and Elevator Pitch
 - 3.5 Closeout
 - 3.5.1 Finish all Sprint III activities
 - 3.5.2 Submit Sprint III report
 - 3.5.2 Create a plan for Sprint IV
- 4.0 Sprint IV
 - 4.1 Initiating
 - 4.1.1 Meet with Viant and discuss goals for Sprint IV
 - 4.2 Planning
 - 4.2.1 Research data visualization tools
 - 4.2.2 Create mockups using Balsamiq
 - 4.3 Executing
 - 4.3.1 Update Software UI Design Document
 - 4.3.2 Execution Test 1
 - 4.3.3 Finish Requirements Document
 - 4.3.4 Create Software and UI Prototype Draft
 - 4.4 Monitoring and Controlling
 - 4.4.1 Complete Peer Evaluations 2
 - 4.4.2 Team Presentation and Elevator Pitch
 - 4.5 Closeout
 - 4.5.1 Finish all Sprint IV activities

- 4.5.2 Submit Sprint IV report
- 4.5.3 Create a plan for Sprint V

5.0 Sprint V

- 5.1 Initiating
 - 5.1.1 Meet with Viant and discuss goals for Sprint V
- 5.2 Planning
 - 5.2.1 Create WINDOWS draft
 - 5.2.2 Finalize data visualization tool
- 5.3 Executing
 - 5.3.1 Finish Software and UI Design
 - 5.3.2 Finish WINDOWS draft
 - 5.3.3 Finish Software and UI Prototype
- 5.4 Monitoring and Controlling
 - 5.4.1 Complete Peer Evaluations 3
 - 5.4.2 Final Team Presentation
- 5.5 Closeout
 - 5.5.1 Finish all Sprint V activities
 - 5.5.2 Submit Sprint V report

4.2 Quarter II

1.0 Sprint I

- 1.1 Initiating
 - 1.1.1 Identify project tasks
 - 1.1.2 Prepare file structures
- 1.2 Planning
 - 1.2.1 Update Project Plan
 - 1.2.2 Create a Gantt Chart
 - 1.2.3 Update Communication Covenant
- 1.3 Executing
 - 1.3.1 What We Did With Winter Presentation
 - 1.3.2 Create FacultyFest Presentation
 - 1.3.3 Create Poster for FacultyFest
 - 1.3.4 Create draft for Stimulus Package 1
 - 1.3.5 Switch code to the new database
- 1.4 Monitoring and Controlling
 - 1.4.1 Set up meetings/calls with Viant for Winter Quarter
- 1.5 Closeout
 - 1.5.1 Finish all Sprint I activities
 - 1.5.2 Submit Sprint I Report
 - 1.5.3 Create a plan for Sprint II

2.0 Sprint II

- 2.1 Initiating
 - 2.1.1 Meet/Weekly Call with Viant and discuss goals for Sprint II
- 2.2 Planning
 - 2.2.1 Prep for FacultyFest Presentation
 - 2.2.2 Prep for Execution Test 1
- 2.3 Executing
 - 2.3.1 Second draft of poster for FacultyFest
 - 2.3.2 Third draft of poster for FacultyFest
 - 2.3.3 Update Stimulus Package 1
 - 2.3.4 Code functionality to traverse through all the data
- 2.4 Monitoring and Controlling
 - 2.4.1 Update Viant on progress
 - 2.4.2 Peer Review 1
- 2.5 Closeout
 - 2.5.1 Finish all Sprint II activities
 - 2.5.2 Submit Sprint II report
 - 2.5.3 Create a plan for Sprint III

3.0 Sprint III

- 3.1 Initiating
 - 3.1.1 Meet with Viant and discuss goals for Sprint III
- 3.2 Planning
 - 3.2.1 Prep for Execution Test 2
- 3.3 Executing
 - 3.3.1 Update code in git

- 3.3.2 Draft of Stimulus Package 2
 - 3.3.3 Code extensibility
 - 3.3.4 Make improvements to the UI
 - 3.3.5 Code profile pages
- 3.4 Monitoring and Controlling
 - 3.4.1 Complete Peer Review 2
- 3.5 Closeout
 - 3.5.1 Finish all Sprint III activities
 - 3.5.2 Submit Sprint III report
 - 3.5.2 Create a plan for Sprint IV
- 4.0 Sprint IV
 - 4.1 Initiating
 - 4.1.1 Meet with Viant and discuss goals for Sprint IV
 - 4.2 Planning
 - 4.2.1 Prep for parallel working sessions
 - 4.2.2 Meet with Viant design team
 - 4.3 Executing
 - 4.3.1 Submit Stimulus Package 2
 - 4.3.2 Conduct UX Testing
 - 4.4 Monitoring and Controlling
 - 4.4.1 Update Viant on progress
 - 4.5 Closeout
 - 4.5.1 Finish all Sprint IV activities
 - 4.5.2 Submit Sprint IV report
 - 4.5.3 Create a plan for Sprint V
- 5.0 Sprint V
 - 5.1 Initiating
 - 5.1.1 Meet with Viant and discuss goals for Sprint V
 - 5.2 Planning
 - 5.2.1 Create Progress Report
 - 5.3 Executing
 - 5.3.1 Create Keystroke Analysis
 - 5.3.2 Create Final Demo Presentation
 - 5.3.3 Submit Stimulus Package 2
 - 5.3.4 Fix final bugs for User Acceptance
 - 5.4 Monitoring and Controlling
 - 5.4.1 Complete Peer Review 3
 - 5.5 Closeout
 - 5.5.1 Finish all Sprint V activities
 - 5.5.2 Submit Sprint V report

5. Time Estimates and Annotations

Legend

Green	Completed
Yellow	In-progress
White	Incomplete

Quarter I

Tasks	Assigned Member	Estimated Time to Complete	Percent Completed	Start Date	Due Date	Notes
Sprint1						
Setting up Git repository	Tina	1 day	100%	10/6/2015	10/6/2015	
1st group photo	All	1 hour	100%	10/9/2015	10/9/2015	
Team Gantt chart	Jacob	5 days	100%	10/4/2015	10/9/2015	
Group communication covenant	Rachita	1 day	100%	10/9/2015	10/9/2015	
Stakeholder communication plan	Amy	5 days	100%	10/4/2015	10/9/2015	
Setting up initial meeting with Viant	Jackie	5 days	100%	10/4/2015	10/9/2015	
Initial meeting with Viant	All	1 hour	100%	10/9/2015	10/9/2015	Rescheduled due to client conflicts
Sprint1	Tina/Rachita	1 day	100%	10/9/2015	10/9/2015	
Sprint2						
Sign up for TA Office	All	1 hour	100%	10/12/2015	10/12/2015	

Hours						
Come up with list of questions for Initial meeting	All	1 day	100%	10/12/2015	10/12/2015	
Initial meeting with Viant	All	1 hour	100%	10/12/2015	10/12/2015	Initial meeting has been rescheduled to 10/12/15
Project plan draft	Rachita/Tina/Amy	5 days	100%	10/11/2015	10/16/2015	
Business case draft	Jackie/Jacob	5 days	100%	10/11/2015	10/16/2015	
Learn SQL through Code Academy	All	5 days	100%	10/11/2015	10/19/2015	
Set up email forwarding from Viant email to personal email	All	1 hour	100%	10/19/2015	10/19/2015	
Schedule a weekly call for escalations and status updates	All	1 hour	100%	10/19/2015	10/19/2015	Our weekly calls will be held on Fridays at 3pm
Sign NDA for Viant	All	1 hour	100%	10/19/2015	10/19/2015	
Confirm Winter Quarter Scope with Professor	All	1 hour	100%	10/20/2015	10/20/2015	Ask the professor, what exactly will we be doing during Winter Quarter?
Requirements draft	All	5 days	100%	10/15/2015	10/22/2015	Received an extension. New due date is 10/22/15
Team Presentation Slides and	All	2 days	100%	10/20/2015	10/22/2015	

Elevator Pitch						
Create Google Doc to Share with Chris	Rachita	1 hour	100%	10/22/2015	10/22/2015	Share with chrisdoe@gmail.com
Set up Google Account for Viant Emails	All	1 day	100%	10/22/2015	10/23/2015	Tina has been unable to access her email
Create Trello Group and add tasks	Tina	2 days	100%	10/20/2015	10/22/2015	Share with Hadar, Prabhu and Chris
Create list of guiding questions for Interviews	All	2 days	100%	10/20/2015	10/22/2015	Rachita to start a Doc
List of Assignments with Dates only Document	Amy	2 days	100%	10/20/2015	10/22/2015	
2nd group photo	All	1 hour	100%	10/23/2015	10/23/2015	
Sprint2	Rachita	1 day	100%	10/23/2015	10/23/2015	
Sprint3						
Project Plan Final	All	7 days	100%	10/23/2015	10/30/2015	
Business Case Final	All	7 days	100%	10/23/2015	10/30/2015	
Conduct User Interviews	All	5 days	100%	10/23/2015	10/30/2015	
Complete peer evaluations	All	1 hour	100%	10/30/2015	11/3/2015	
Requirements Document Updated	All	3 days	20%	10/30/2015	11/3/2015	
Software and	All	3 days	100%	10/31/2015	11/3/2015	

UI Design Draft				5		
Brainstorm ideas for Data Exploration Tool	All	14 days	100%	10/23/2015	11/6/2015	
Team Presentation	All	2 days	100%	11/4/2015	11/6/2015	
3rd Group Photo	All	1 hour	100%	11/6/2015	11/6/2015	
Sprint3	Rachita	1 day	100%	11/6/2015	11/6/2015	
Sprint4						
Team Presentation	All	2 days	100%	11/9/2015	11/10/2015	
Software and UI Design Draft #2	All	2 days	100%	11/9/2015	11/10/2015	
Execution Test 1	All	3 days	100%	11/9/2015	11/12/2015	
Peer Evaluations 2	All	1 day	100%	11/12/2015	11/12/2015	
Research data visualization tools	All	5 days	100%	11/9/2015	11/13/2015	
Create mockups using Balsamiq	All	5 days	100%	11/9/2015	11/13/2015	
Requirements Document Final	All	5 days	100%	11/12/2015	11/17/2015	
Software and UI Prototype Draft	All	5 days	100%	11/12/2015	11/17/2015	
Team Presentation	All	2 days	100%	11/19/2015	11/20/2015	
Sprint4	Rachita	1 day	100%	11/20/2015	11/20/2015	
Sprint5						

Finalize data visualization tool	All	2 days	100%	11/23/2015	11/24/2015	
WINDOWS draft	All	2 days	100%	11/23/2015	11/24/2015	
Software and UI Design Final	All	2 days	100%	11/23/2015	11/24/2015	
Peer Evaluations 3	All	1 day	100%	12/1/2015	12/1/2015	
Software and UI Prototype Final	All	8 days	100%	11/25/2015	12/3/2015	
WINDOWS Final	All	2 days	100%	12/3/2015	12/4/2015	
Sprint5	Rachita	1 day	100%	12/4/2015	12/4/2015	
Final Presentation	All	1 day	100%	12/10/2015	12/10/2015	

Quarter II

MerQuery Assignments		
Tasks	Due Date(s)	Percent Completed
Switch to new DB	01/15/16	100%
Functionality to traverse through different data points	01/18/16	100%
Extensibility	02/05/16	100%
Improvements on user interface	02/12/16	100%
Profile Pages	02/12/16	100%
UX Testing	02/15/16	100%
Acceptance	03/11/16	100%

Tasks	Assigned Member	Estimated Time to	Percent Completed	Start Date	End Date
-------	-----------------	-------------------	-------------------	------------	----------

		Complete			
Sprint 1					
Progress Report 1 Presentation	All	1 day	100 %	1/4/2016	1/4/2016
Gantt Chart	All	3 days	100 %	1/5/2016	1/8/2016
Communication Covenant	All	3 days	100 %	1/5/2016	1/8/2016
Project Plan	All	3 days	100 %	1/5/2016	1/8/2016
Set up meetings/calls with Viant for Winter Quarter	All	1 day	100 %	1/5/2016	1/5/2016
Create FacultyFest Presentation	All	1 day	100 %	1/6/2016	1/6/2016
Draft Stimulus Package 1	All	5 days	100 %	1/8/2016	1/13/2016
Draft Test Plan	Amy/Rachita	5 days	100 %	1/8/2016	1/13/2016
Poster Draft 1	Tina	3 days	100 %	1/9/2016	1/12/2016
Switch to new database	Amy	1 day	100 %	1/10/2016	1/10/2016
UI Demo Video	Jackie	1 day	100 %	1/13/2016	1/13/2016
Sprint 1 Report	Amy	1 day	100 %	1/15/2016	1/15/2016
Sprint2					
Poster Draft 2	All	3 days	100%	1/16/2016	1/19/2016
Poster Draft 3	All	3 days	100%	1/19/2016	1/21/2016
Poster Final	All	3 days	100%	1/23/2016	1/26/2016
Update Stimulus Package 1	All	7 days	100%	1/20/2016	1/27/2016
Functionality to traverse through different data	Amy	5 days	100%	1/14/2016	1/20/2016
Extensibility	Rachita	15 days	100%	1/14/2016	1/29/2016
Update Viant on Progress	All	1 day	100%	1/29/2016	1/29/2016
Peer Review 1	All	1 day	100%	1/25/2016	1/25/2016
Sprint 2 Report	Rachita	1 day	100%	1/29/2016	1/29/2016
Sprint 3					
Design Session with	All	1 day	100%	2/1/2016	2/1/2016

Sankat					
Prep for GradFest	All	1 day	100 %	2/7/2016	2/7/2016
Peer Review 2	All	1 day	100%	2/8/2016	2/8/2016
Stimulus Package 2	All	1 day	100%	2/12/2016	2/12/2016
Sprint 3 Report	Rachita	1 day	100%	2/12/2016	2/12/2016
Add Loading Indicator	Jackie	5 days	100%	2/1/2016	2/6/2016
Add Result count	Amy	5 days	100%	2/1/2016	2/6/2016
Update UI	Tina/Amy	10 days	100%	2/1/2016	2/12/2016
Meeting with Viant for UI	All	1 day	100%	2/3/2016	2/3/2016
PopUp UI Changes	Rachita/Tina/Amy	10 days	100%	2/1/2016	2/12/2016
Search field modifications	Rachita	10 days	100%	2/1/2016	2/12/2016
Sprint 4					
Code Freeze 1	All			2/15/2016	2/15/2016
Stimulus Package 2	All	update as needed	100%	TBD	2/26/2016
Sprint 5					
Code Freeze 2	All			2/29/2016	2/29/2016
Peer Review 3	All	1 day	100%	3/4/2016	3/4/2016
Keystroke analysis	All	4 days	100%	3/3/2016	3/7/2016
Peer Review 4	All	1 day	100%	3/14/2016	3/14/2016