Vortek Solutions

A NORTHROP GRUMMAN Team

JAD Report 2

Members:

Justin Goulet, Chris Larsen, Mikal Callahan, Brock Corbett

Vortek Solutions

333 S. Twin Oaks Valley Rd.
San Marcos, CA 92096

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Usrey, Thomas (Ty)
Northrop Grumman
16765 W. Bernardo Dr.
San Diego, CA 92127

Dear Mr. Usrey,

Thank you for meeting us a second time to confirm your requirements and exemplifying details regarding our current project.

We also wish to thank you for allowing us to tour the manufacturing floor and learn about the core of Northrop's business and operations. We really enjoyed having the opportunity to learn about the various technological pieces that your organization helps to create, maintain and explore.

In the duration from our last meeting, we have been actively working on our Decision Matrix, as requested. The document is going to be updated accordingly as we work with our op choice.

As we have accomplished our wireframe design, reaffirmed variable themes may exist and confirmed we are designing both a workflow tree theme and a product structure tree theme, we may continue to work on our next phase. In order for our next phase to be successful, we must verify our decision matrix, install our top choice on a created test environment, and generate a simple design theme (not actually implemented).

Now that the first draft of our Decision Matrix is complete, we will start working on creating an extremely simple prototype - with a basic theme. In addition to this prototype, we will offer introductory documentation for handling the widget in various ways.

Meanwhile, while we learn the functionality and begin integrating with your example JSON structure, we may be required to update the Decision Matrix accordingly. We want to provide you with the best possible product - without hindering on your requirements.

So far, our project has incurred an approximate cost of $925 and an estimated completion cost of $9,500 (breakdown in following pages).

Thank You,
Justin Goulet

Project Manager / Lead
VortekSolutions.CIS@gmail.com

CC: Dr. Shaun-Inn Wu

I _____ (print), approve the current project and continuation under the predetermined terms by the Vortek Solutions team, will provide any non-confidential materials that contributes to the overall success of the project and will allow Vortek Solutions to manage all deliverables set by the project sponsor.

Client Signature: _____ Date: ____ /____ /_____

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Executive Communication

Summary of Accomplishments:

- Further Defined Requirements:
    - Specific themes for what will be viewed (e.g. theme that just displays the name and the states, a theme that displays the description and more detail, etc)
    - Only required objects to pass are ID and name
    - Object being read in should be well defined, our job is to visualize that data
    - We will be designing both
        - Workflow tree theme: a simple visualization of their workflow
        - Product Structure Tree theme: a components list of each state
- Design Specs:
    - Should have a display for the number of current hours and total estimate hours of a state
    - Color always defines the quality of the state
- Follow IEEE SRS requirements

For Successful Completion of phase:

- Find at least five libraries/frameworks to look at
    - Describe why we chose them
    - Order them by which seem most doable
    - Create a decision tree
- Decision matrix - with options and selection criteria defined
    - How we interpret requirements
    - Ability to theme out prototype (not an actual prototype but decision on how we are going to proceed
- Create a live matrix what we are working towards, so we can go back and reiterate if necessary

Accrued Cost for phase:

Consultation Fee ($35/hour):
2 hours * $35 = $70
Labor Fee ($25/hour):
39 hours * 25 = $925 total
$925/4 team members = $231.25 per team member

Estimated Cost for phase:

Consultation Fee ($35/hour):
1.5 hours * $35 = $52.5
Labor Fee ($25/hour):
40 hours * 25 = $1000
$1000/4 team members = $250 per team member

Cost to Date:

Consultation Fee ($35/hour):
3 hours * $35 = $105
Labor Fee ($25/hour):j
130 hours * $25/h = $3250
$3250/4 team members = $812.50 per team member

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Application Development

Statement of Business Context:

Northrop Grumman has existing systems related to their current manufacturing workflows. These systems run in a web browser showing statistics and information related to specific workflows. Created statistics are visualized in charts, or Visio style diagrams, which are not always easily read (especially on devices of various screen sizes such as the tablets used by upper management). The statistics and other pieces of information related to the workflows are then used in decision making at various levels throughout the organization.

Statement of the Customer's Business Problem:

Northrop Grumman is in need of a versatile widget that would allow them to monitor their current workflow in an easy to process but highly descriptive manner. Currently the employees get this information printed out on a piece of a paper, which makes it inconvenient to deduce more information from. There's a lot more information that would be of use to the employees given that it was more accessible.

Statement of Project Proposal

We propose a widget that will be able to receive multiple workflow objects and render it in the multiple browsers that Northrop Grumman supports. The widget will also be able to be styled using CSS and have the ability to add, update and edit a workflow's state.

Statement of Deliverables

The deliverables will be:

- The final widget which will:
    - Be an executable, locally run widget, which interprets JSON data containing information of a specific workflow
    - Display workflows multiple workflows in a visual manner
    - Run on IE11+, Firefox 45+ and Edge
- IEEE SRS Documentation
- Source Code

What Medium Will the Product Be Delivered In

Source code that our clients at Northrop Grumman will be able to compile and run on their local machines via web browser (IE11+, Edge, Firefox 45)

Outline of Project Measures of Success

JAD 1 - Establish Requirements
JAD 2 - Finalize Requirements
Prototype 1 - Basic widget implemented to receive JSON data
Prototype 2 - Static Widget (i.e. can manually update values of Workflow modules)
Final Deliverable - Dynamic Widget (i.e. widget is dynamically changed based on form input)

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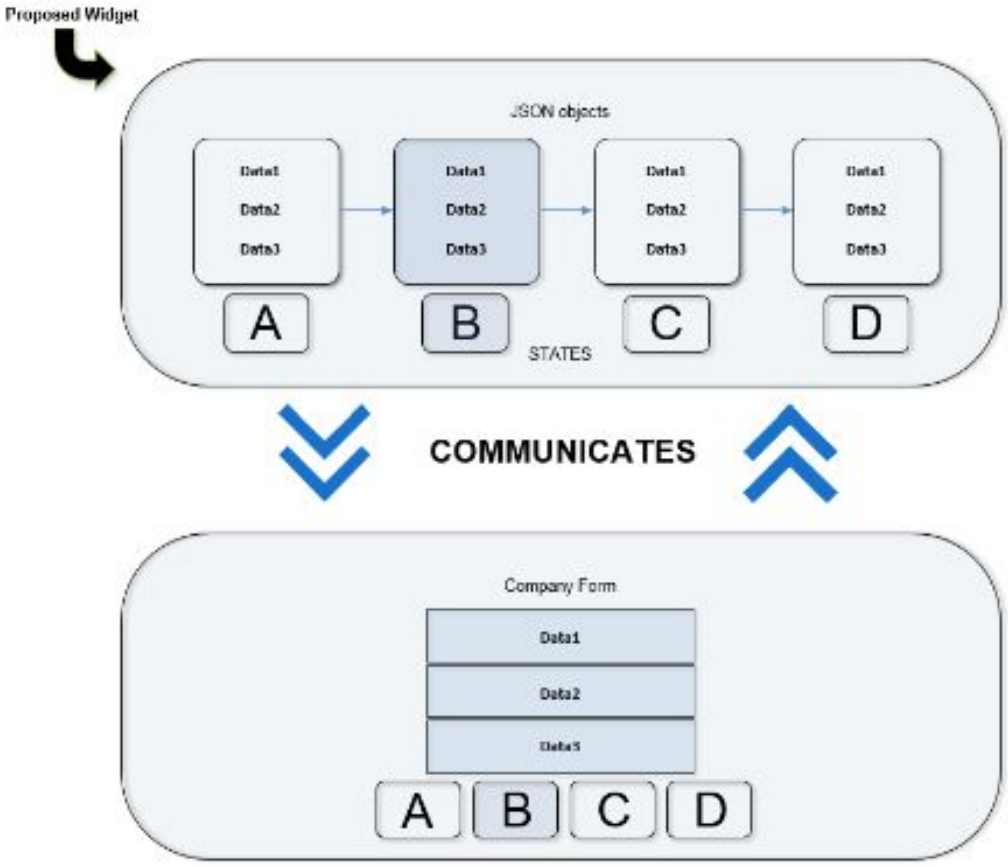
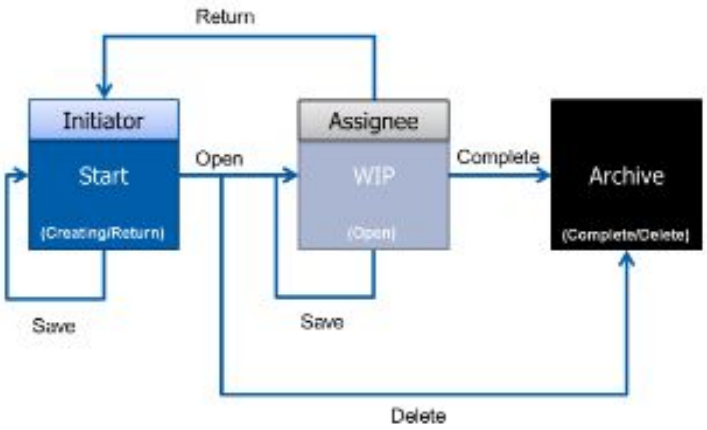
Workflow Representation:





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Cost = Elapsed Hours/Standard Hours

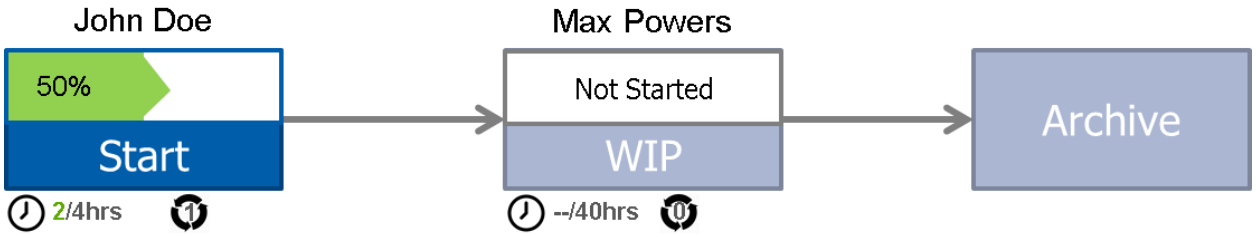
Elapsed hours are less than or equal to standard hours	Perfect: Cost <= 100%
Elapsed hours 1x to 1.5x standard hours	Good: 100% < Cost <= 150%
Elapsed hours 1.5x to 2x standard hours	Good: 150% < Cost <= 200%
Elapsed hours more than 2x standard hours	Bad: Cost > 200%

Quality = WO's with QN/Total WO's

No WO's have a QN against them	Perfect: Quality = 0%
None to 25% of WO's have a QN against them	Good: 0% < Quality <= 25%
25% to 50% of WO's have a QN against them	Good: 25% < Quality <= 50%
More than 50% of WO's have a QN against them	Bad: Quality > 50%

Schedule = Days of QN RW on a WO/Total Open Days of a WO

No days of RW operations related to a QN	Perfect: Schedule = 0%
0% to 10% of WO open days had RW operations	Good: 0% < Schedule <= 10%
10% to 20% of WO open days had RW operations	Good: 10% < Schedule <= 20%
More than 20% of WO open days had RW operations	Bad: Schedule > 20%



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Requirements Matrix

Requirements	Description	Task Number
Research	Explore Javascript libraries that will fulfill requirements and provide necessary functionality.	R1
Design	Define requirements for widget and construct basis for further development.	R2
Development	Widget will accept nested JSON inputs, UI will dynamically adjust to tree hierarchy and run on previously defined browsers.	R3
Documentation	Necessary documentation will be accustomed for future development on widget.	R4
Error Handling	Widget must be able to handle incomplete JSON data.	R5

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Task Schedule

Task	Task #	Implemented (Y/N)
Research	**R1**	
Analyze 5+ Javascript libraries	T1	Y
Design	**R2**	
Define requirements for proposed widget	T2	Y
Wireframe Development	T3	N
Development	**R3**	
Widget will be created with only ID and name passed to it	T4	N
Render projected workflow steps	T5	N
Render workflow info (project name, date started, etc)	T6	N
Render workflow step linkages	T7	N
Allow workflow's current state to be changed to a different state	T8	N
Allow additional state(s) to be added to the workflow	T9	N
Allow widget to be themed with CSS	T10	N
Allow states to be deleted	T11	N
The widget shall run on Microsoft Internet Explorer 11+, Edge, and Firefox 45+; with little variation in layout, style, or functionality	T12	N
Documentation	**R4**	
Develop User Manual for created portions	T13	N
Develop code-related documentation	T14	N
Systems Requirements Specifications	T15	N
Error Handling	**R5**	
Widget must be able to handle JSON objects with incomplete data	T16	N

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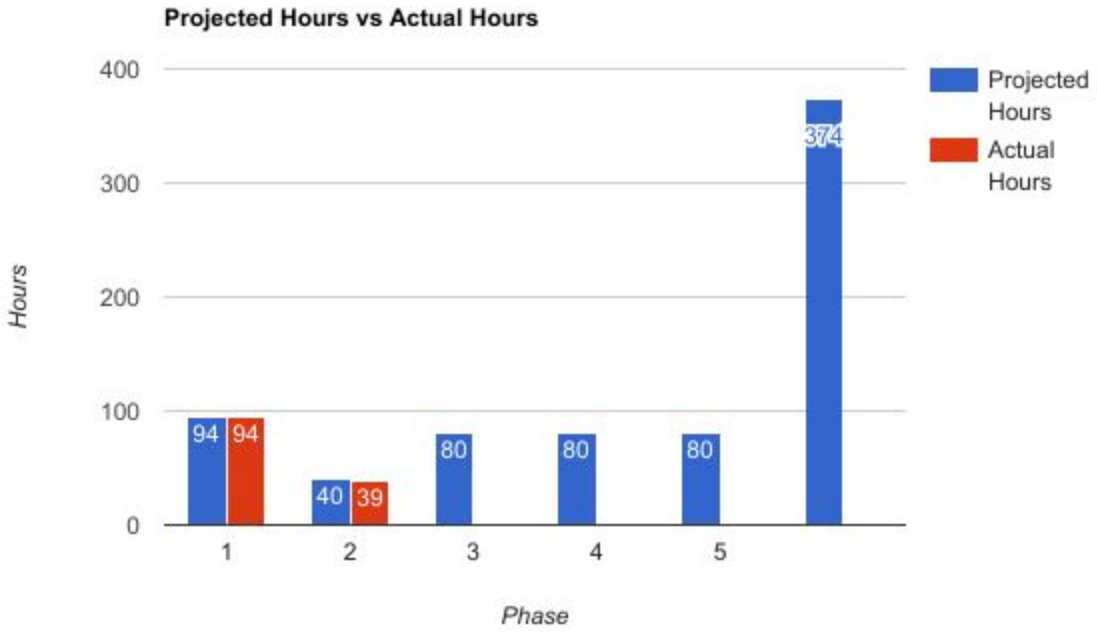
Initial Project Cost Tracking Chart



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Project Plan

~~Hold JAD 1 Meeting (2/8/17)~~ Completed

On site

- ~~Discuss communication methods~~
- ~~Define customer requirements~~
- ~~Interpret project priorities~~
- ~~Discuss final product~~

~~Hold JAD 2 Meeting (2/22/17)~~ Completed

On site

- ~~Adjust requirements if needed~~
- ~~Examine possible technologies to implement~~
- ~~Finalize definition of workflow object~~

Hold JAD 3 Meeting (Deadline: 3/08/17)

Virtual

- Discuss and finalize libraries we have chosen
- Wireframe for simple workflow in all its states
- Get feedback

Hold Prototype Meeting 1 (Deadline: 3/22/17)

On site

- Widget can accept JSON objects
- Widget display implemented
- Get feedback

Hold Prototype Meeting 2 (Deadline: 4/13/17)

On site

- Widget given more functionality (modify/delete)
- CSS themed
- Error-handling
- Get more feedback for final product

Statement of the Deliverables

For this phase, our plan is to rank and come to a conclusion on which frameworks we will be using. A decision matrix for the product will be finished as well a live matrix of what we are working towards. We will also come out with wireframes for this project.

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Estimated Costs - Phase 3 Due Date: 3/08/17

Task	Hours	Bill Rate	Total Cost
Finish research and rank possible libraries	40	$25.00	$1,000.00
Create wireframes	40	$25.00	$1,000.00
Total Hours:	80	$25.00	$2,000.00

Resources Outline

What resources we will need from Northrop Grumman:

- Due to the nature of Northrop Grumman's industry/clientele we understand that we will have no access to Northrop's internal network and production data.
- Ty has provided us with:
    - Sample workflow object data
    - Application style guide
    - List of commercial libraries that Northrop Grumman has access to

What resources we are supplying:

- We will provide a test environment to mimic how the widget will be deployed in production
- Any open source software that is needed for research/development purposes
- Slack channel
- GitHub repository

What resources we will need from the instructor:

- At this time we do not require anything of the instructor.

Gantt Chart / Task List

Please see the attached document for the gantt chart and task breakdown.

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Team Norms

Reliability

Vortek Solutions strives to perform all of our tasks carefully and diligently, while still working in a swift manner, providing unparalleled reliability of our products. We take pride in our work, and reliability is of utmost importance.

Commitment

Vortek Solutions is committed to our clients. We put in every effort to ensure all of our client's needs are met, from the most prominent functional features to the smallest subtleties in design.

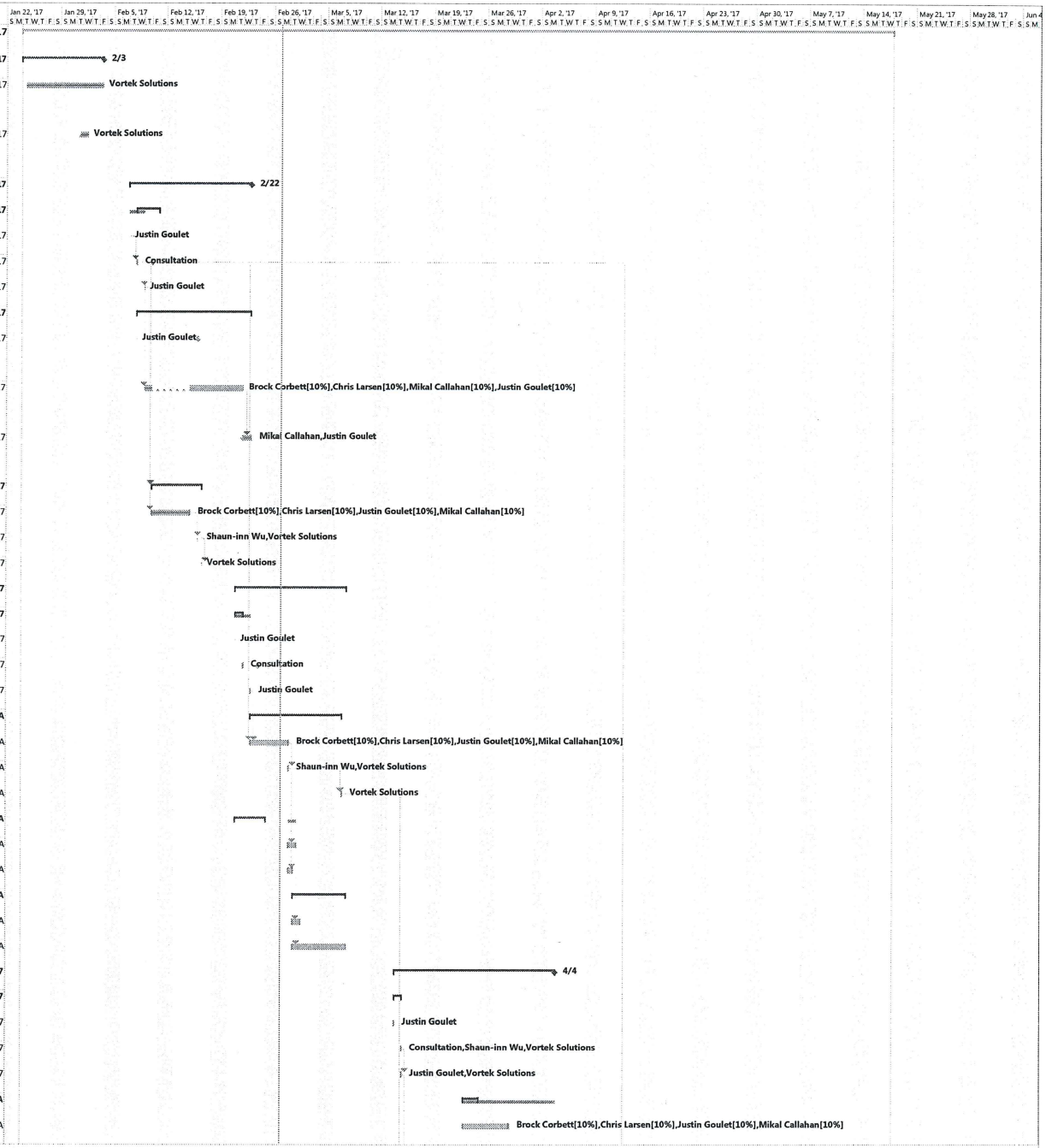
Communication

At Vortek Solutions communication is key. We are in constant contact among each other and always ensure that the individual parts we are working on will amalgamate into one harmonious product. We also keep our clients up to date with our progress and send over updates as them come. We do not hesitate to ask any questions regarding our client's needs and we are always open to questions and comments from our clients.

Common Goal

Vortek Solutions strives to provide a product that is not just functional, but both beautifully built and intelligently designed. The ending result is a well built and carefully crafted product that is sure to leave our clients satisfied.

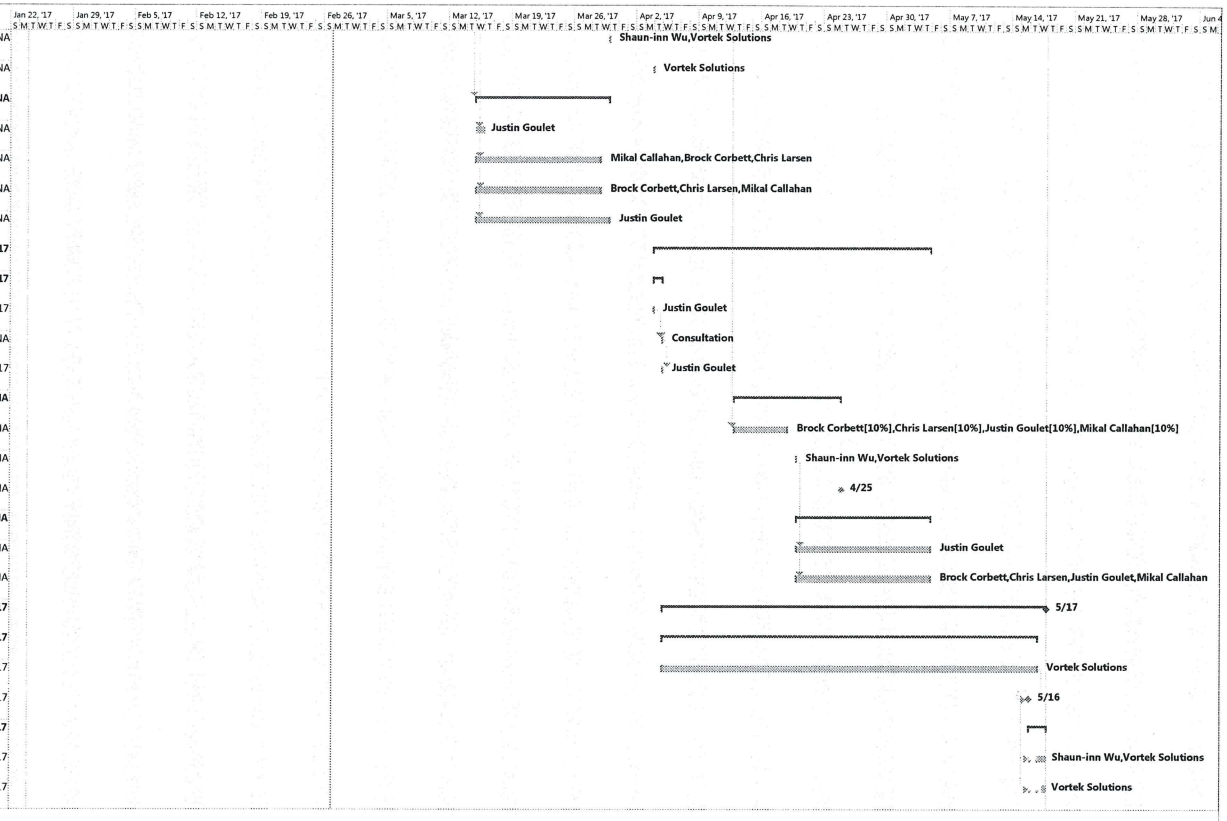
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Actual Start
0		**Northrop_JS_Widget**	**81.75 days?**	**Tue 1/24/17**	**Wed 5/17/1**			**Tue 1/24/17**
1		**Introduction to Course**	**8.52 days**	**Tue 1/24/17**	**Fri 2/3/17**			**Tue 1/24/17**
2		Syllabus / Project Introduction	2 days	Tue 1/24/17	Fri 2/3/17		Vortek Solutions	Tue 1/24/17
3		Client Presentation / Team Formation	2 hrs	Tue 1/31/17	Wed 2/1/17		Vortek Solutions	Tue 1/31/17
4		**JAD 1**	**11.75 days**	**Tue 2/7/17**	**Wed 2/22/17**			**Tue 2/7/17**
5		**Meeting**	**3 days**	**Wed 2/8/17**	**Fri 2/10/17**			**Tue 2/7/17**
6		Meeting Agenda	2 hrs	Tue 2/7/17	Tue 2/7/17		Justin Goulet	Tue 2/7/17
7		Have Meeting	2 hrs	Wed 2/8/17	Wed 2/8/17	6	Consultation	Wed 2/8/17
8		Meeting Notes	2 hrs	Thu 2/9/17	Thu 2/9/17	7	Justin Goulet	Thu 2/9/17
9		**Assigned Tasks**	**10.63 days**	**Wed 2/8/17**	**Wed 2/22/17**			**Wed 2/8/17**
10		Setup Client Communications	2 hrs	Wed 2/8/17	Wed 2/8/17		Justin Goulet	Wed 2/8/17
11		Research Possible Workflow Solutions	6.25 days	Thu 2/9/17	Tue 2/21/17	7	Brock Corbett[10%],Chr Larsen[10%],Mika Callahan[10%],Jus	Thu 2/9/17
12		Create Sketch of Proposed Solution	6 hrs	Wed 2/22/17	Wed 2/22/17	11	Mikal Callahan,Justin Goulet	Wed 2/22/17
13		**Report 1D**	**4.67 days**	**Fri 2/10/17**	**Thu 2/16/17**	8		**Fri 2/10/17**
14		Create Report	3 days	Fri 2/10/17	Tue 2/14/17	7	Brock Corbett[10	Fri 2/10/17
15		Feedback on Report 1D	40 mins	Thu 2/16/17	Thu 2/16/17	14	Shaun-inn Wu,Vo	Thu 2/16/17
16		Submit Report 1D	1 hr	Thu 2/16/17	Thu 2/16/17	15	Vortek Solutions	Thu 2/16/17
17		**JAD 2**	**10.58 days**	**Tue 2/21/17**	**Tue 3/7/17**			**Tue 2/21/17**
18		**Meeting**	**1 day**	**Tue 2/21/17**	**Tue 2/21/17**			**Tue 2/21/17**
19		Meeting Agenda	2 hrs	Tue 2/21/17	Tue 2/21/17		Justin Goulet	Tue 2/21/17
20		Have Meeting	1 hr	Wed 2/22/17	Wed 2/22/17		Consultation	Wed 2/22/17
21		Meeting Notes	2 hrs	Thu 2/23/17	Thu 2/23/17		Justin Goulet	Thu 2/23/17
22		**Report 2D**	**8 days**	**Thu 2/23/17**	**Tue 3/7/17**			**NA**
23		Create Report	3 days	Thu 2/23/17	Mon 2/27/17	7,21	Brock Corbett[10	NA
24		Feedback on Report 2D	40 mins	Tue 2/28/17	Tue 2/28/17	23	Shaun-inn Wu,Vo	NA
25		Submit Report 2D	1 hr	Tue 3/7/17	Tue 3/7/17	24	Vortek Solutions	NA
26		**Decision Matrix**	**4 days**	**Tue 2/21/17**	**Fri 2/24/17**			**NA**
27		D3/D4 & Others: Cost/Fe	10 hrs	Tue 2/28/17	Wed 3/1/17	24		NA
28		Live Decision Matrix	4 hrs	Tue 2/28/17	Tue 2/28/17	24		NA
29		**Product Creation**	**5 days**	**Tue 2/28/17**	**Tue 3/7/17**			**NA**
30		User Manual	1 day	Tue 2/28/17	Wed 3/1/17	28		NA
31		Skelaton Product	5 days	Tue 2/28/17	Tue 3/7/17	28		NA
32		**ProtoType 1**	**15 days?**	**Tue 3/14/17**	**Tue 4/4/17**			**Tue 3/14/17**
33		**Meeting**	**1 day**	**Tue 3/14/17**	**Wed 3/15/17**			**Tue 3/14/17**
34		Meeting Agenda	2 hrs	Tue 3/14/17	Tue 3/14/17		Justin Goulet	Tue 3/14/17
35		Have Meeting	1 hr	Wed 3/15/17	Wed 3/15/17		Consultation,Shau	Wed 3/15/17
36		Meeting Notes	2 hrs	Wed 3/15/17	Wed 3/15/17	35	Justin Goulet,Vort	Wed 3/15/17
37		**Report 3D**	**3 days**	**Thu 3/23/17**	**Fri 3/24/17**			**NA**
38		Create Report	5 days	Thu 3/23/17	Tue 3/28/17		Brock Corbett[10	NA



Project: Northrop_JS_Widget
Date: Mon 2/27/17

Task | Split | 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

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Actual Start
39		Feedback on Report 3D	40 mins	Thu 3/30/17	Thu 3/30/17		Shaun-inn Wu,Vo	NA
40		Submit Report 3D	1 hr	Tue 4/4/17	Tue 4/4/17		Vortek Solutions	NA
41		**Project**	**10.75 days?**	**Wed 3/15/17**	**Wed 3/29/17**	**25**		**NA**
42		Updates to current Docs	1 day	Wed 3/15/17	Wed 3/15/17	36	Justin Goulet	NA
43		Working prototype of sir	10.75 days	Wed 3/15/17	Tue 3/28/17	36	Mikal Callahan,Br	NA
44		Complete code for imple	10.75 days	Wed 3/15/17	Tue 3/28/17	36	Brock Corbett,Chi	NA
45		Initial documentation fo	10.75 days	Wed 3/15/17	Wed 3/29/17	36	Justin Goulet	NA
46		**ProtoType 2**	**22.75 days?**	**Tue 4/4/17**	**Thu 5/4/17**			**Tue 4/4/17**
47		**Meeting**	**1 day**	**Tue 4/4/17**	**Wed 4/5/17**			**Tue 4/4/17**
48		Meeting Agenda	2 hrs	Tue 4/4/17	Tue 4/4/17		Justin Goulet	Tue 4/4/17
49		Have Meeting	8 hrs	Wed 4/5/17	Wed 4/5/17	48	Consultation	NA
50		Meeting Notes	2 hrs	Wed 4/5/17	Wed 4/5/17	49	Justin Goulet	Wed 4/5/17
51		**Report 4D**	**8 days?**	**Thu 4/13/17**	**Tue 4/25/17**			**NA**
52		Create Report	4.75 days	Thu 4/13/17	Tue 4/18/17	7	Brock Corbett[10	NA
53		Feedback on Report 4D	40 mins	Thu 4/20/17	Thu 4/20/17		Shaun-inn Wu,Vo	NA
54		Submit Report 4D	0 hrs	Tue 4/25/17	Tue 4/25/17		Vortek Solutions	NA
55		**Project**	**10.75 days**	**Thu 4/20/17**	**Thu 5/4/17**			**NA**
56		Updates to current Docs	10.75 days	Thu 4/20/17	Thu 5/4/17	53	Justin Goulet	NA
57		Two or More working pr	10.75 days	Thu 4/20/17	Thu 5/4/17	53	Brock Corbett,Chi	NA
58		**Final Report**	**30.75 days**	**Wed 4/5/17**	**Wed 5/17/17**		**Justin Goulet**	**Wed 4/5/17**
59		**Report**	**29.75 days**	**Wed 4/5/17**	**Tue 5/16/17**		**Consultation,Sha**	**Wed 4/5/17**
60		Final Report Paper	30.25 days	Wed 4/5/17	Tue 5/16/17		Vortek Solutions	Wed 4/5/17
61		Submit Report	0 days	Tue 5/16/17	Tue 5/16/17	60	Vortek Solutions	Tue 5/16/17
62		**Presentation**	**1.75 days**	**Tue 5/16/17**	**Wed 5/17/17**		**Brock Corbett[10**	**Tue 5/16/17**
63		Presentation Coaching	0.37 days	Tue 5/16/17	Wed 5/17/17	60	Shaun-inn Wu,Vo	Tue 5/16/17
64		Present	0.25 days	Tue 5/16/17	Wed 5/17/17	60	Vortek Solutions	Tue 5/16/17



Project: Northrop_JS_Widget
Date: Mon 2/27/17

Task | Split | 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

Northrop_JS_Widget

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Actual Start	% Complete
0		**Northrop_JS_Widget**	**81.75 days?**	**Tue 1/24/17**	**Wed 5/17/17**			**Tue 1/24/17**	**7%**
1		**Introduction to Course**	**8.52 days**	**Tue 1/24/17**	**Fri 2/3/17**			**Tue 1/24/17**	**100%**
2		Syllabus / Project Introduction	2 days	Tue 1/24/17	Fri 2/3/17		Vortek Solutions	Tue 1/24/17	100%
3		Client Presentation / Team Formation	2 hrs	Tue 1/31/17	Wed 2/1/17		Vortek Solutions	Tue 1/31/17	100%
4		**JAD 1**	**11.75 days**	**Tue 2/7/17**	**Wed 2/22/17**			**Tue 2/7/17**	**53%**
5		**Meeting**	**3 days**	**Wed 2/8/17**	**Fri 2/10/17**			**Tue 2/7/17**	**100%**
6		Meeting Agenda	2 hrs	Tue 2/7/17	Tue 2/7/17		Justin Goulet	Tue 2/7/17	100%
7		Have Meeting	2 hrs	Wed 2/8/17	Wed 2/8/17	6	Consultation	Wed 2/8/17	100%
8		Meeting Notes	2 hrs	Thu 2/9/17	Thu 2/9/17	7	Justin Goulet	Thu 2/9/17	100%
9		**Assigned Tasks**	**10.63 days**	**Wed 2/8/17**	**Wed 2/22/17**			**Wed 2/8/17**	**28%**
10		Setup Client Communications	2 hrs	Wed 2/8/17	Wed 2/8/17		Justin Goulet	Wed 2/8/17	100%
11		Research Possible Workflow Solutions	6.25 days	Thu 2/9/17	Tue 2/21/17	7	Brock Corbett[10%],Chris Larsen[10%],Mikal Callahan[10%],Justin Goulet[10%]	Thu 2/9/17	16%
12		Create Sketch of Proposed Solution	6 hrs	Wed 2/22/17	Wed 2/22/17	11	Mikal Callahan,Justin Goulet	Wed 2/22/17	100%
13		**Report 1D**	**4.67 days**	**Fri 2/10/17**	**Thu 2/16/17**	**8**		**Fri 2/10/17**	**100%**
14		Create Report	3 days	Fri 2/10/17	Tue 2/14/17	7	Brock Corbett[10%],Chris Larsen[10%],Justin Goulet[10%],Mikal Callahan[10%]	Fri 2/10/17	100%
15		Feedback on Report 1D	40 mins	Thu 2/16/17	Thu 2/16/17	14	Shaun-inn Wu,Vortek Solutions	Thu 2/16/17	100%
16		Submit Report 1D	1 hr	Thu 2/16/17	Thu 2/16/17	15	Vortek Solutions	Thu 2/16/17	100%
17		**JAD 2**	**10.58 days**	**Tue 2/21/17**	**Tue 3/7/17**			**Tue 2/21/17**	**5%**
18		**Meeting**	**1 day**	**Tue 2/21/17**	**Tue 2/21/17**			**Tue 2/21/17**	**100%**
19		Meeting Agenda	2 hrs	Tue 2/21/17	Tue 2/21/17		Justin Goulet	Tue 2/21/17	100%
20		Have Meeting	1 hr	Wed 2/22/17	Wed 2/22/17		Consultation	Wed 2/22/17	100%
21		Meeting Notes	2 hrs	Thu 2/23/17	Thu 2/23/17		Justin Goulet	Thu 2/23/17	100%
22		**Report 2D**	**8 days**	**Thu 2/23/17**	**Tue 3/7/17**			**NA**	**0%**
23		Create Report	3 days	Thu 2/23/17	Mon 2/27/17	7,21	Brock Corbett[10%],Chris Larsen[10%],Justin Goulet[10%],Mikal Callahan[10%]	NA	0%
24		Feedback on Report 2D	40 mins	Tue 2/28/17	Tue 2/28/17	23	Shaun-inn Wu,Vortek Solutions	NA	0%
25		Submit Report 2D	1 hr	Tue 3/7/17	Tue 3/7/17	24	Vortek Solutions	NA	0%
26		**Decision Matrix**	**4 days**	**Tue 2/21/17**	**Fri 2/24/17**			**NA**	**0%**
27		D3/D4 & Others: Cost/Features	10 hrs	Tue 2/28/17	Wed 3/1/17	24		NA	0%
28		Live Decision Matrix	4 hrs	Tue 2/28/17	Tue 2/28/17	24		NA	0%
29		**Product Creation**	**5 days**	**Tue 2/28/17**	**Tue 3/7/17**			**NA**	**0%**
30		User Manual	1 day	Tue 2/28/17	Wed 3/1/17	28		NA	0%
31		Skelaton Product	5 days	Tue 2/28/17	Tue 3/7/17	28		NA	0%
32		**ProtoType 1**	**15 days?**	**Tue 3/14/17**	**Tue 4/4/17**			**Tue 3/14/17**	**1%**
33		**Meeting**	**1 day**	**Tue 3/14/17**	**Wed 3/15/17**			**Tue 3/14/17**	**60%**
34		Meeting Agenda	2 hrs	Tue 3/14/17	Tue 3/14/17		Justin Goulet	Tue 3/14/17	0%
35		Have Meeting	1 hr	Wed 3/15/17	Wed 3/15/17		Consultation,Shaun-inn Wu,Vortek Solutions	Wed 3/15/17	99%
36		Meeting Notes	2 hrs	Wed 3/15/17	Wed 3/15/17	35	Justin Goulet,Vortek Solutions	Wed 3/15/17	99%
37		**Report 3D**	**3 days**	**Thu 3/23/17**	**Fri 3/24/17**			**NA**	**0%**
38		Create Report	5 days	Thu 3/23/17	Tue 3/28/17		Brock Corbett[10%],Chris Larsen[10%],Justin Goulet[10%],Mikal Callahan[10%]	NA	0%
39		Feedback on Report 3D	40 mins	Thu 3/30/17	Thu 3/30/17		Shaun-inn Wu,Vortek Solutions	NA	0%
40		Submit Report 3D	1 hr	Tue 4/4/17	Tue 4/4/17		Vortek Solutions	NA	0%
41		**Project**	**10.75 days?**	**Wed 3/15/17**	**Wed 3/29/17**	**25**		**NA**	**0%**
42		Updates to current Docs	1 day	Wed 3/15/17	Wed 3/15/17	36	Justin Goulet	NA	0%
43		Working prototype of simple theme	10.75 days	Wed 3/15/17	Tue 3/28/17	36	Mikal Callahan,Brock Corbett,Chris Larsen	NA	0%
44		Complete code for implementing prototype	10.75 days	Wed 3/15/17	Tue 3/28/17	36	Brock Corbett,Chris Larsen,Mikal Callahan	NA	0%
45		Initial documentation for implementing prototype	10.75 days	Wed 3/15/17	Wed 3/29/17	36	Justin Goulet	NA	0%
46		**ProtoType 2**	**22.75 days?**	**Tue 4/4/17**	**Thu 5/4/17**			**Tue 4/4/17**	**0%**
47		**Meeting**	**1 day**	**Tue 4/4/17**	**Wed 4/5/17**			**Tue 4/4/17**	**0%**
48		Meeting Agenda	2 hrs	Tue 4/4/17	Tue 4/4/17		Justin Goulet	Tue 4/4/17	0%
49		Have Meeting	8 hrs	Wed 4/5/17	Wed 4/5/17	48	Consultation	NA	0%
50		Meeting Notes	2 hrs	Wed 4/5/17	Wed 4/5/17	49	Justin Goulet	Wed 4/5/17	0%
51		**Report 4D**	**8 days?**	**Thu 4/13/17**	**Tue 4/25/17**			**NA**	**0%**
52		Create Report	4.75 days	Thu 4/13/17	Tue 4/18/17	7	Brock Corbett[10%],Chris Larsen[10%],Justin Goulet[10%],Mikal Callahan[10%]	NA	0%
53		Feedback on Report 4D	40 mins	Thu 4/20/17	Thu 4/20/17		Shaun-inn Wu,Vortek Solutions	NA	0%
54		Submit Report 4D	0 hrs	Tue 4/25/17	Tue 4/25/17		Vortek Solutions	NA	0%
55		**Project**	**10.75 days**	**Thu 4/20/17**	**Thu 5/4/17**			**NA**	**0%**
56		Updates to current Docs	10.75 days	Thu 4/20/17	Thu 5/4/17	53	Justin Goulet	NA	0%
57		Two or More working prototypes	10.75 days	Thu 4/20/17	Thu 5/4/17	53	Brock Corbett,Chris Larsen,Justin Goulet,Mikal Callahan	NA	0%
58		**Final Report**	**30.75 days**	**Wed 4/5/17**	**Wed 5/17/17**		**Justin Goulet**	**Wed 4/5/17**	**0%**
59		**Report**	**29.75 days**	**Wed 4/5/17**	**Tue 5/16/17**		**Consultation,Shaun-inn Wu,Vortek Solutions**	**Wed 4/5/17**	**0%**
60		Final Report Paper	30.25 days	Wed 4/5/17	Tue 5/16/17		Vortek Solutions	Wed 4/5/17	0%
61		Submit Report	0 days	Tue 5/16/17	Tue 5/16/17	60	Vortek Solutions	Tue 5/16/17	99%
62		**Presentation**	**1.75 days**	**Tue 5/16/17**	**Wed 5/17/17**		**Brock Corbett[10%],Chris Larsen[10%],Justin Goulet[10%],Mikal Callahan[10%]**	**Tue 5/16/17**	**0%**
63		Presentation Coaching	0.37 days	Tue 5/16/17	Wed 5/17/17	60	Shaun-inn Wu,Vortek Solutions	Tue 5/16/17	0%
64		Present	0.25 days	Tue 5/16/17	Wed 5/17/17	60	Vortek Solutions	Tue 5/16/17	0%