Project Plan

Captain CyBeard: Neil Before Us

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Trevor Surface | Kyle Thomas

September 12, 2019

Washington State University Tri-Cities
CptS 421 Software Design Project 1

Contents

List of Figures

Revision History

Revision	Date	Author(s)	Description
1.0	09.27.2019	RB NF TS KT	Completed Document
0.5	09.27.2019	RB	Filled in Estimate section
0.4	09.26.2019	KT	Filled in Approach section
0.3	09.24.2019	RB NF TS KT	Filled in scope and added diagram
0.2	09.19.2019	KT	Filled in Introduction Section
0.1	09.12.2019	KT	Document Creation

1 Introduction

This document is a project plan for developing a Django Web Application that allows Cypherpath users to enter a URL for online Virtual Machines and select which Virtual Machines will be downloaded onto Cypherpath's servers. The purpose of the project plan is to provide a roadmap for CypherPath and the software development team of the development process and help keep track of the progress.

Subsequent sections of this project plan will cover the scope of the project, the software engineering approach that will be used for the project and an estimate for how long the project will take broken by task in the form of a Gantt Chart.

2 Scope

The project is to develop a Python-Django web application that allows a user that is logged into the application to enter a URL that points to one of several possible cloud based VM platforms and be presented with the authentication for that platform. After the user enters their credentials for the VM platform they will be presented with the VM's they have on their account that are available to download.

The application will present relevant information to the user such as the directory structure, names of the VM images, and a way to select which files and folders to download to their local machine.

The first platform to focus on for interacting with will be VMware. Time permitting, other platforms such as Amazon Web Services (AWS), Citrix, Google Drive and Dropbox will be added. The application will have a modular design with both cloud platforms and authentication mechanisms so more can be added in the future.

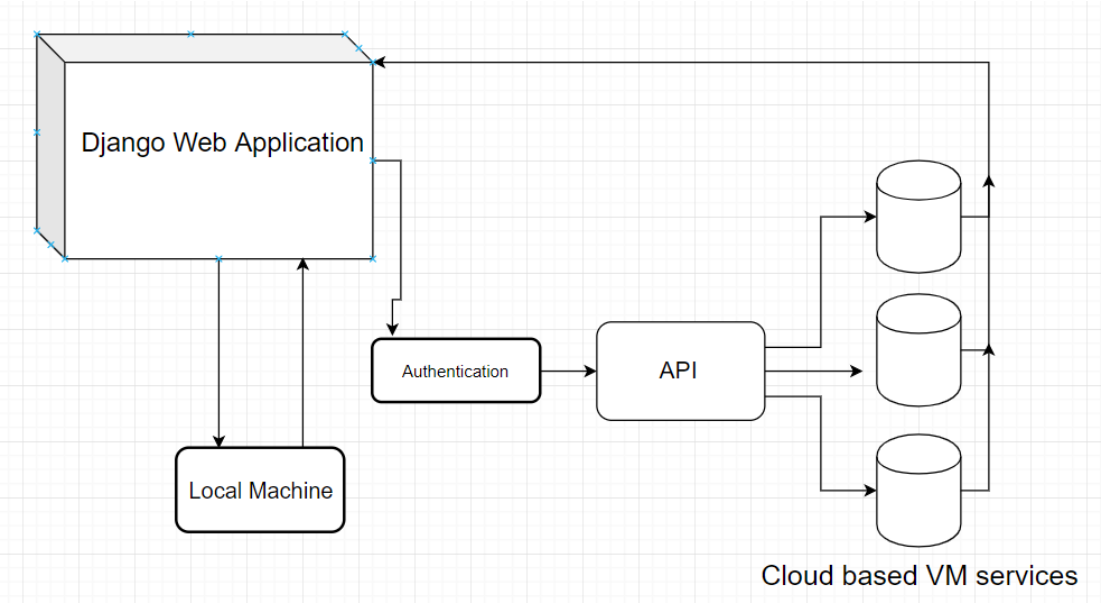

Figure 1: The application environment

3 Approach

The software engineering approach that will be used for this project is the **Agile Scrum** approach. This iterative approach will ensure that the software development team will remain on track and that Cypherpath will receive the maximum amount of value for their time.

The project will be implemented as a Python-Django web application, Python version 3+ and Django version 2+ will be used. The Python-Django framework provides the tools and environment needed to develop and test a web application such as a lightweight web server and SQLite. For version control the software development team will be using git with a remote repository hosted on Github.

4 Estimate

The project is estimated to take two academic semesters in order to complete collecting requirements, designing, implementation and testing. The estimated date to complete the project is Wednesday April 4th, 2020.

The following pages will contain a breakdown of the tasks and estimated time to complete them for the project.

Resiliency Platform Tool

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Today's Date: [1] 9/27/2019 (Friday)
Display Week: 1

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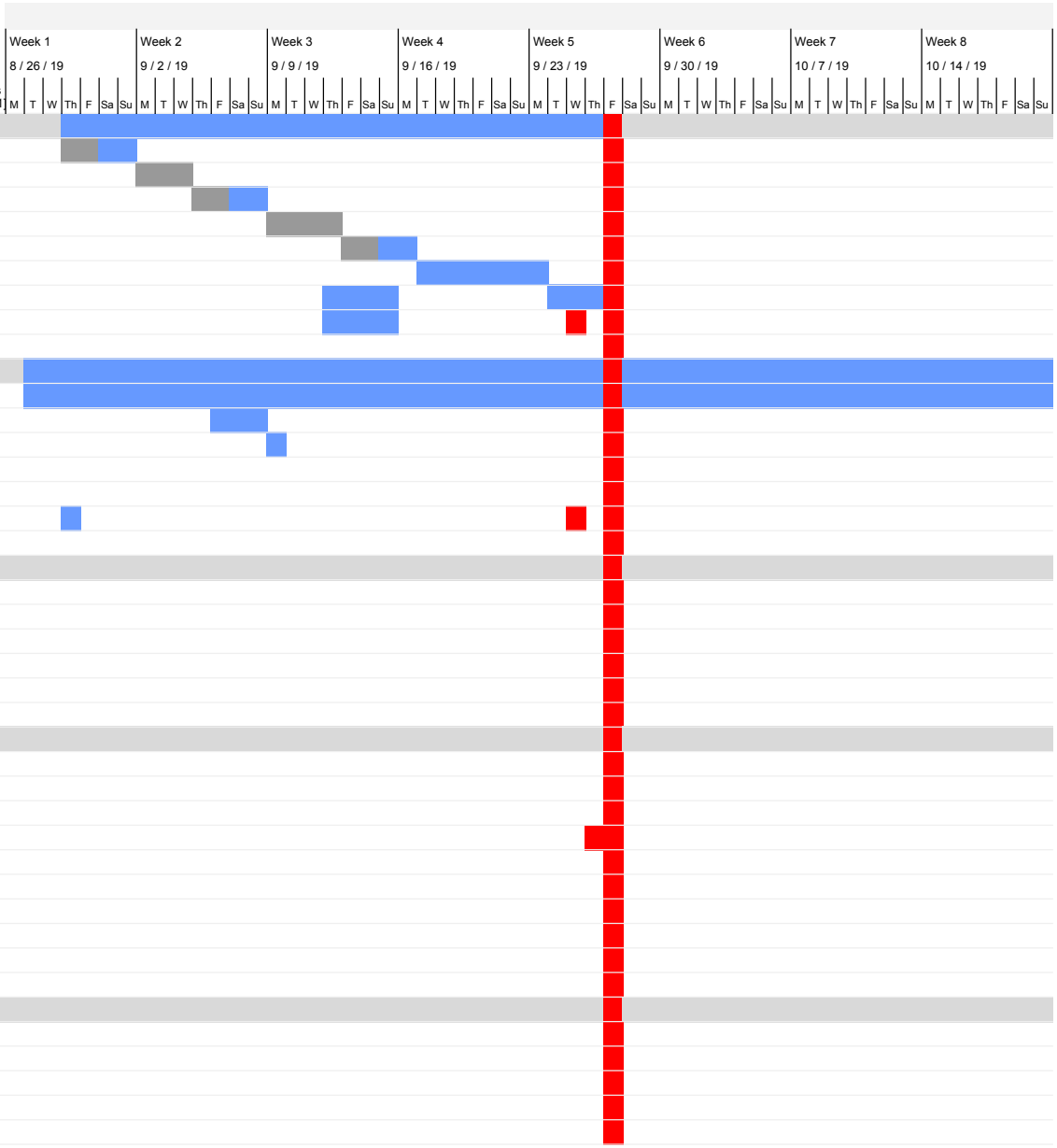

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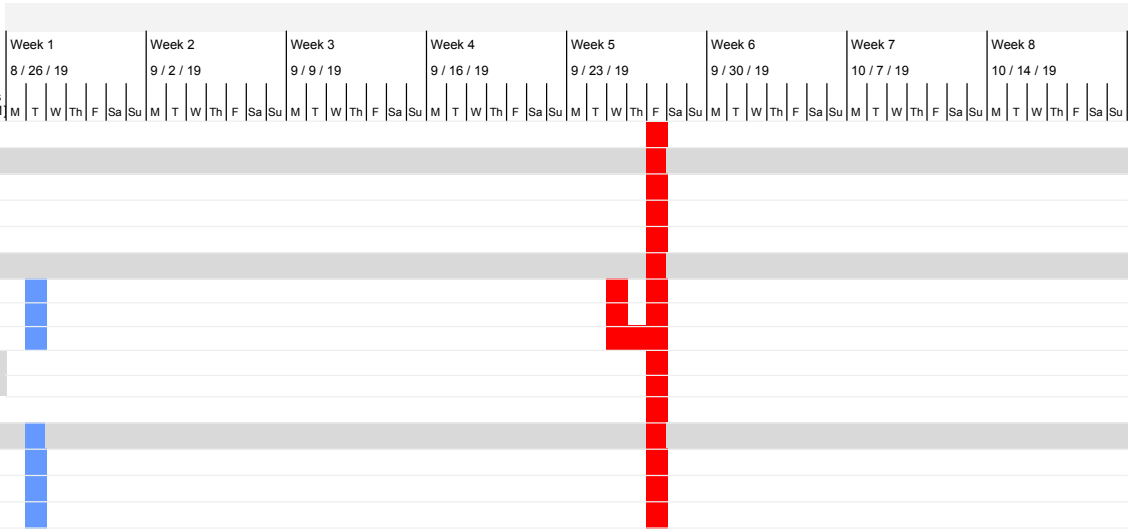

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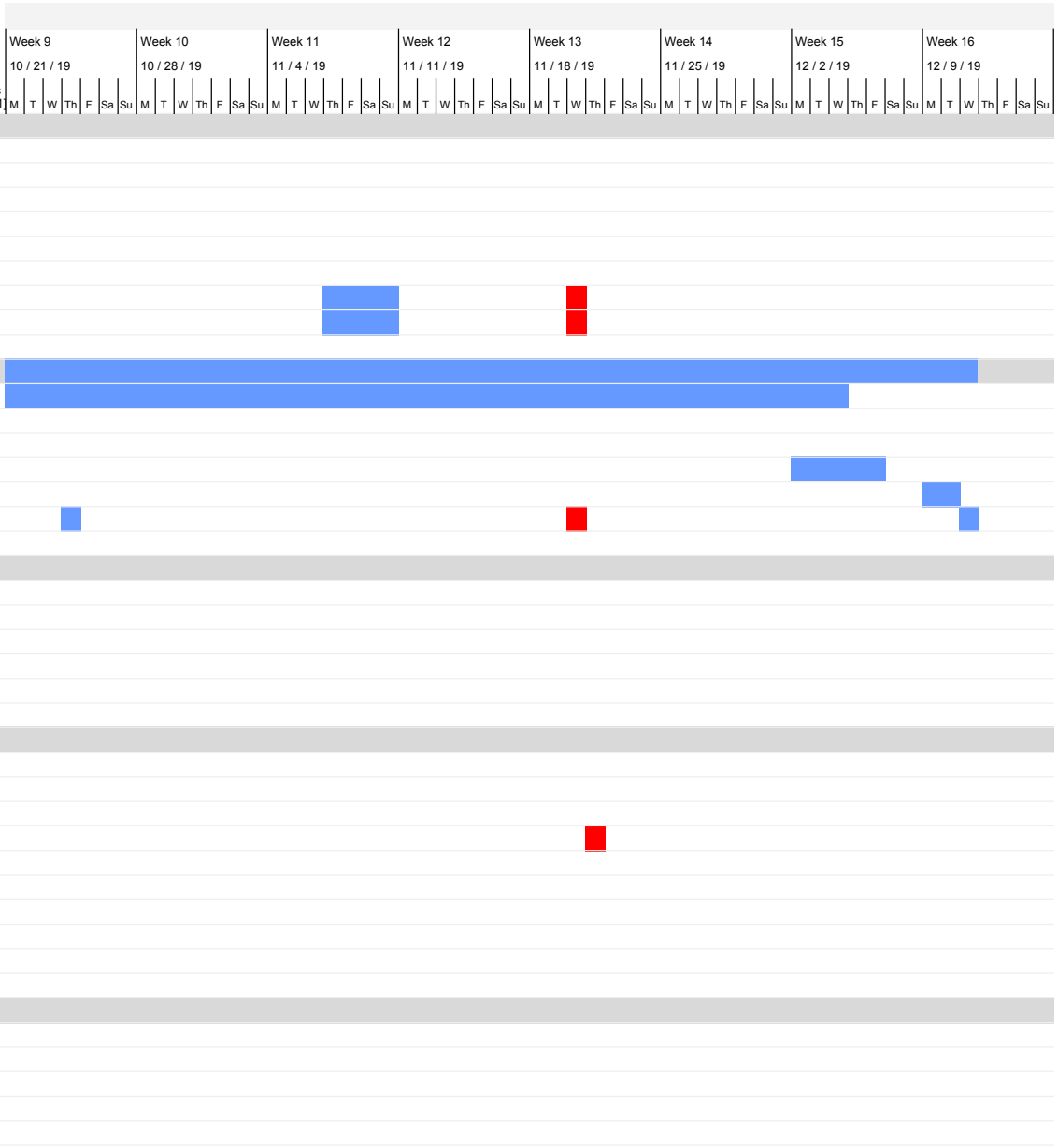

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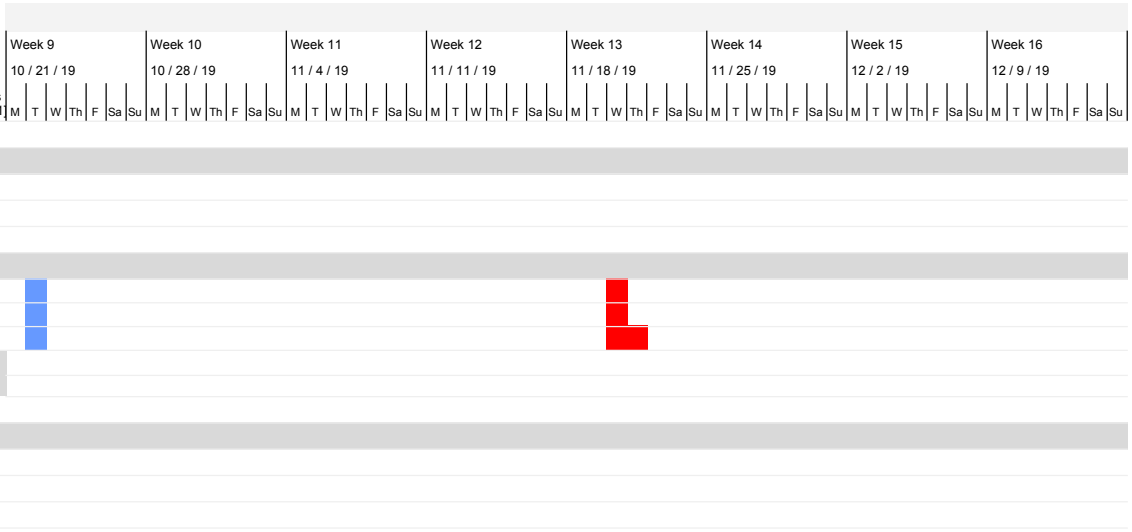

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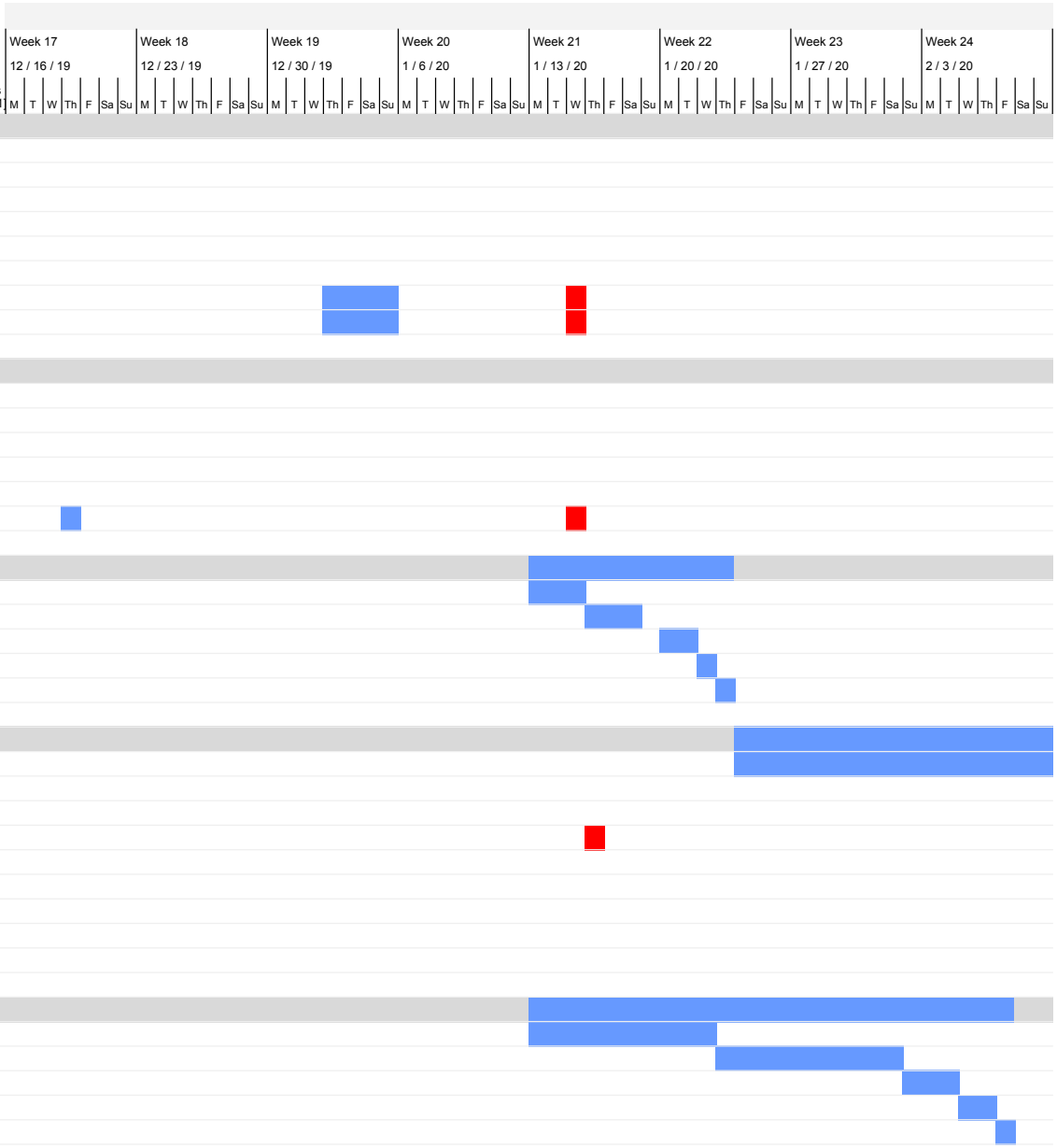
5.1	design tests	Noah	Mon 1/13/20	Wed 1/22/20	10	0%	10	0	10
5.2	test code	Trevor	Thu 1/23/20	Sat 2/01/20	10	0%	10	0	10
5.3	write up documentation	Kyle	Sun 2/02/20	Tue 2/04/20	3	0%	5	0	3
5.4	Bug fixing	Ryan	Wed 2/05/20	Thu 2/06/20	2	0%	5	0	2
5.5	[Task]		Fri 2/07/20	Fri 2/07/20	1	0%	1	0	1

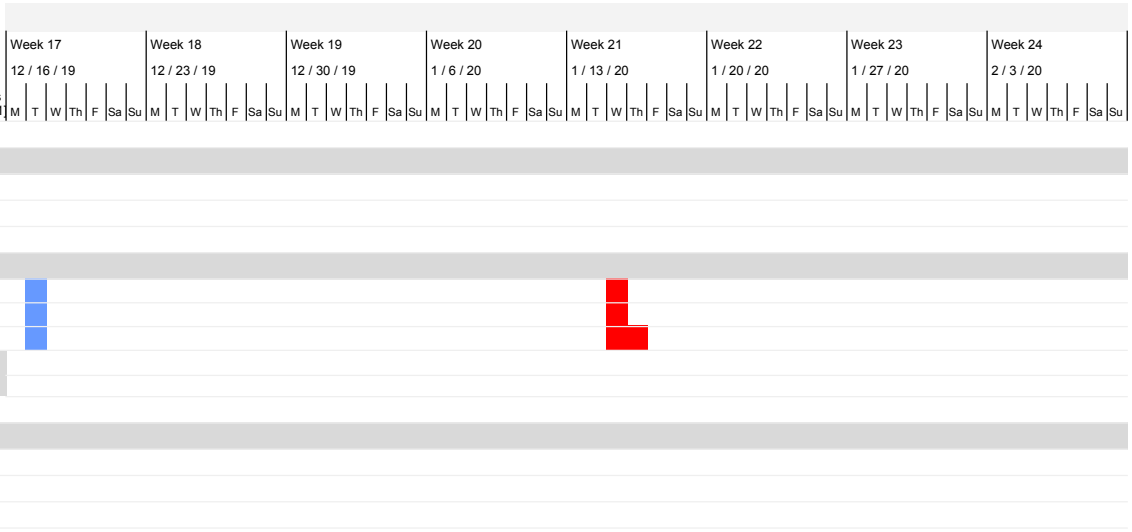


Resiliency Platform Tool

Captain Cybeard

Project Lead: Noah
Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)
Display Week: 17

WBS [2]	Task [3]	Lead [4]	Start [5]	End [6]	Cal Days [7]	% Done [8]	Work Hours [9]	Hours done [10]	Hours left [11]
5.6	[Insert new rows above this one, then hide or delete this row]								
6	**User's guide**		Sat 3/14/20	Wed 3/18/20	5		9		
6.1	write user guide	Kyle	Sat 3/14/20	Mon 3/16/20	3	0%	6	0	3
6.2	review user guide	All	Tue 3/17/20	Wed 3/18/20	2	0%	2	0	2
6.3	present user guide	Noah	Wed 3/18/20	Wed 3/18/20	1	0%	1	0	1
7	**project summery**		Fri 4/05/19	Wed 4/10/19	6		11		
7.1	Write project summery	Kyle	Fri 4/05/19	Sun 4/07/19	3	0%	8	0	3
7.2	review poject summery	All	Mon 4/08/19	Tue 4/09/19	2	0%	2	0	2
7.3	present	Noah	Wed 4/10/19	Wed 4/10/19	1	0%	1	0	1
TEMPLATE ROWS									
See the Help worksheet for information about using template rows.									
1	[Task Category (label only)]								
2	**[Task Category (summary)]**		Tue 8/27/19	Tue 8/27/19	1		1		
2.1	[Level 2 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1
2.1.1	. [Level 3 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1
2.1.1.1	. . [Level 4 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1



[1] Today's Date:
Use the formula =TODAY() to make the red line in the gantt chart display the current day, or enter the date manually.

[2] Work Breakdown Structure:
Level 1: 1, 2, 3, ...
Level 2: 1.1, 1.2, 1.3,
Level 3: 1.1.1, 1.1.2,
The WBS uses a formula to control the numbering, but the formulas are different for different levels.

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Enter the name of the Task Lead in this column.

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You can manually enter the Start Date for each task or use a formula to create a dependency on a Predecessor. For example, you could enter =enddate+1 to set the Start date to the next calendar day, or =WORKDAY(enddate,1) to set the Start date to the next work day (excluding weekends), where enddate is the cell reference for the End date of the Predecessor task.

[6] End Date:
Calculated based on the Start Date and the duration of the task.

[7] Duration:
The duration is the number of calendar days for the given task.

[8] Percent Complete:
Update the status of this task by entering the percent complete (between 0% and 100%).

[9] Work Days:
Work Days exclude Saturday and Sunday. The Pro version allows you to use this column as an input.

[10] Calendar Days Complete:
This column is calculated by multiplying the Duration by the %Complete and rounding down to the nearest integer.
Note: This column is required, but may be hidden prior to printing.

[11] Calendar Days Remaining:
This column is calculated by subtracting the Days Complete from the Duration.
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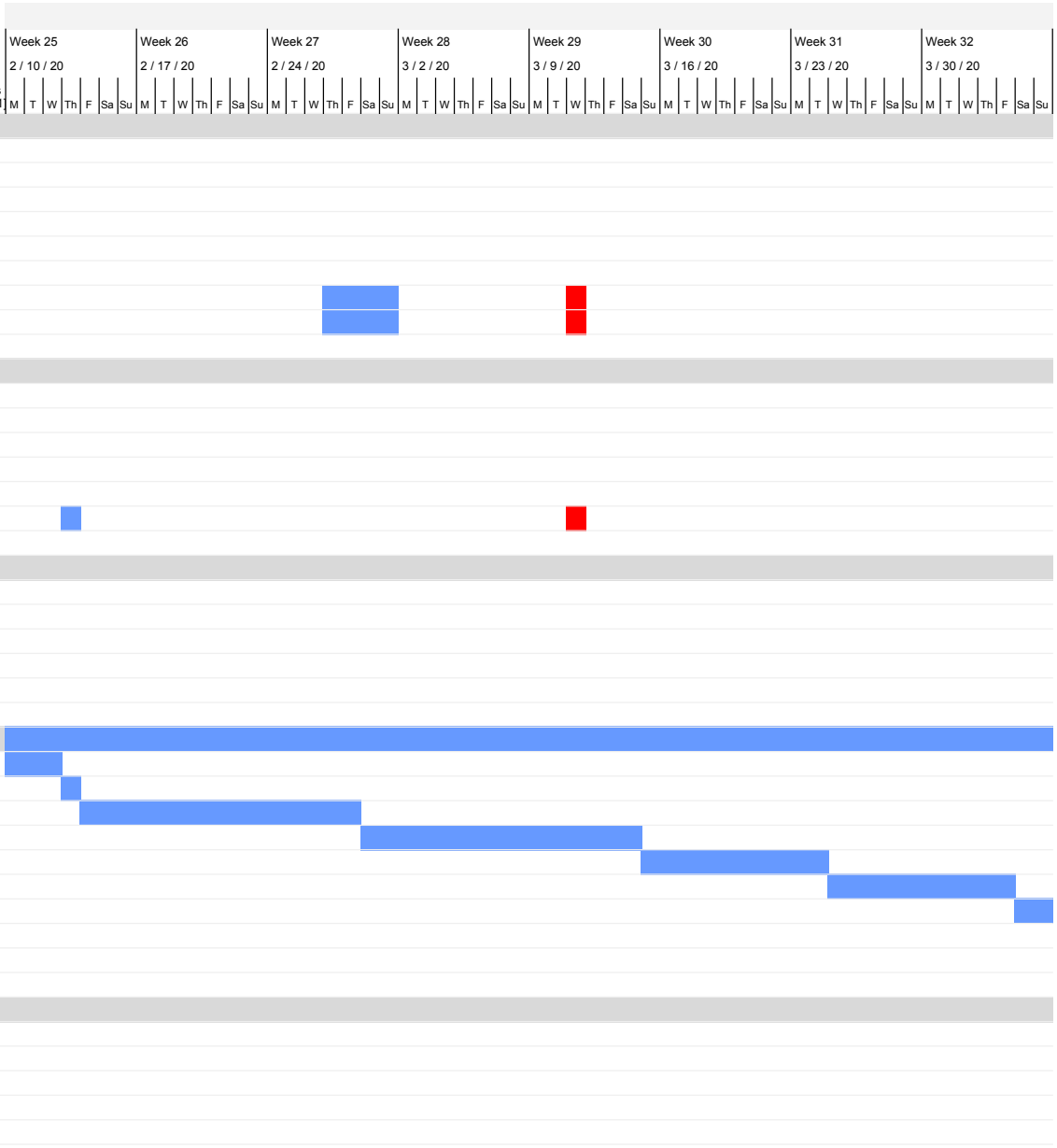
Resiliency Platform Tool

Captain Cybeard

Project Lead: Noah
Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)
Display Week: 25

WBS [2	Task [3]	Lead [4]	Start [5]	End [6]	Cal Days [7	% Done [8]	Work Hours [9]	Hours done [10	Hours left [11]
1	**Project plan**	[Name]	Thu 8/29/19	Fri 9/27/19	30		22		
1.1	understand problem domain	ALL	Thu 8/29/19	Sun 9/01/19	4	100%	2	2	0
1.2	Determine scope	Trevor	Mon 9/02/19	Wed 9/04/19	3	100%	3	3	0
1.3	Identify Tasks	Ryan	Thu 9/05/19	Sun 9/08/19	4	100%	2	2	0
1.4	Estimate time to perform tasks	Ryan	Mon 9/09/19	Thu 9/12/19	4	100%	4	4	0
1.5	Schedule Tasks	Ryan	Fri 9/13/19	Mon 9/16/19	4	100%	2	2	2
1.6	Write project plan	Kyle	Tue 9/17/19	Mon 9/23/19	7	0%	5	0	7
1.7	Review Project plan	ALL	Tue 9/24/19	Thu 9/26/19	3	0%	1	0	0
1.8	Present Plan	Noah	Fri 9/27/19	Fri 9/27/19	1	0%	1	0	0
1.9	[Insert new rows above this one, then hide or delete this row]								
2	**Requirments**		Tue 8/27/19	Wed 12/11/19	107		27		
2.1	requirment meetings	ALL	Tue 8/27/19	Wed 12/04/19	100	0%	15	0	100
2.2	determine fesablity of requirmen	Trevor	Fri 9/06/19	Sun 9/08/19	3	0%	3	0	3
2.3	determine software needs	Trevor	Mon 9/09/19	Mon 9/09/19	1	0%	2	0	1
2.4	write requirements document	Kyle	Mon 12/02/19	Fri 12/06/19	5	0%	5	0	5
2.5	review requirements document	All	Mon 12/09/19	Tue 12/10/19	2	0%	2	0	2
2.6	present requirements	Noah	Wed 12/11/19	Wed 12/11/19	1	0%	1	0	1
2.7	[Insert new rows above this one, then hide or delete this row]								
3	**design**		Mon 1/13/20	Thu 1/23/20	11		9		
3.1	plan design	Ryan, Tre	Mon 1/13/20	Wed 1/15/20	3	0%	8	0	3
3.2	write design cocument	Kyle	Thu 1/16/20	Sat 1/18/20	3	0%	6	0	3
3.3	Review design document	All	Mon 1/20/20	Tue 1/21/20	2	0%	2	0	2
3.4	present design document	Noah	Wed 1/22/20	Wed 1/22/20	1	0%	1	0	1
3.5	[Task]		Thu 1/23/20	Thu 1/23/20	1	0%	1	0	1
3.6	[Insert new rows above this one, then hide or delete this row]								
4	**implementation**		Fri 1/24/20	Wed 4/22/20	90		266		
4.1	learn Django and APIs	All	Fri 1/24/20	Wed 2/12/20	20	0%	60	0	0
4.2	initional setup django	Ryan	Thu 2/13/20	Thu 2/13/20	1	0%	1	0	1
4.3	make Django front end	Kyle	Fri 2/14/20	Fri 2/28/20	15	0%	60	0	15
4.4	make Django back end	Trevor	Sat 2/29/20	Sat 3/14/20	15	0%	60	0	15
4.5	aws api	Noah	Sun 3/15/20	Tue 3/24/20	10	0%	30	0	10
4.6	vmware api	Trevor	Wed 3/25/20	Fri 4/03/20	10	0%	30	0	10
4.7	Integrate apis into back end	All	Sat 4/04/20	Sat 4/18/20	15	0%	20	0	15
4.8	code review	All	Sun 4/19/20	Mon 4/20/20	2	0%	3	0	2
4.9	code fixing	All	Tue 4/21/20	Wed 4/22/20	2	0%	2	0	2
4.10	[Insert new rows above this one, then hide or delete this row]								
5	**Testing**		Mon 1/13/20	Fri 2/07/20	26		31		
5.1	design tests	Noah	Mon 1/13/20	Wed 1/22/20	10	0%	10	0	10
5.2	test code	Trevor	Thu 1/23/20	Sat 2/01/20	10	0%	10	0	10
5.3	write up documentation	Kyle	Sun 2/02/20	Tue 2/04/20	3	0%	5	0	3
5.4	Bug fixing	Ryan	Wed 2/05/20	Thu 2/06/20	2	0%	5	0	2
5.5	[Task]		Fri 2/07/20	Fri 2/07/20	1	0%	1	0	1

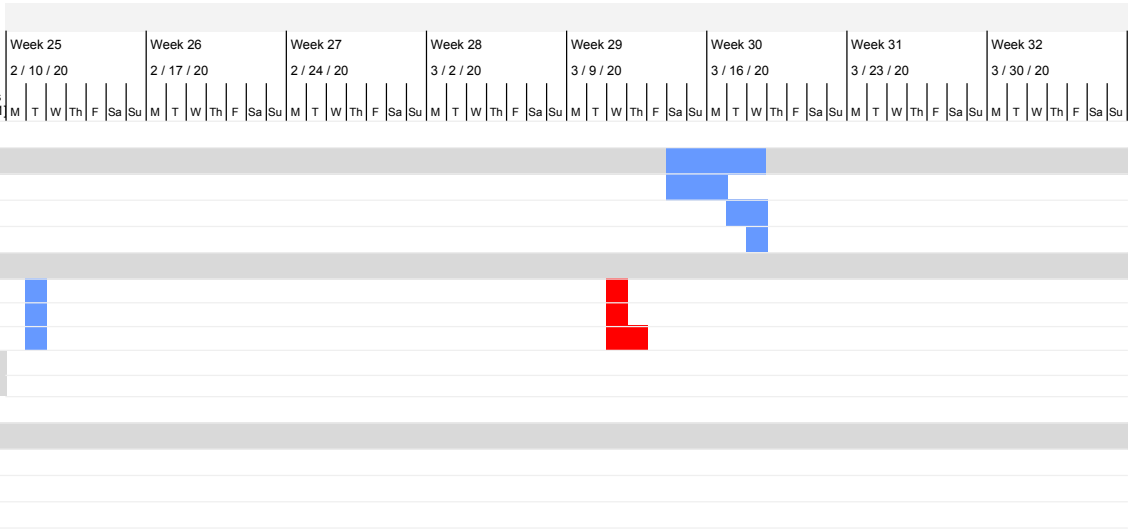


Resiliency Platform Tool

Captain Cybeard

Project Lead: Noah
Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)
Display Week: 25

WBS [2]	Task [3]	Lead [4]	Start [5]	End [6]	Cal Days [7]	% Done [8]	Work Hours [9]	Hours done [10]	Hours left [11]
5.6	[Insert new rows above this one, then hide or delete this row]								
6	**User's guide**		Sat 3/14/20	Wed 3/18/20	5		9		
6.1	write user guide	Kyle	Sat 3/14/20	Mon 3/16/20	3	0%	6	0	3
6.2	review user guide	All	Tue 3/17/20	Wed 3/18/20	2	0%	2	0	2
6.3	present user guide	Noah	Wed 3/18/20	Wed 3/18/20	1	0%	1	0	1
7	**project summery**		Fri 4/05/19	Wed 4/10/19	6		11		
7.1	Write project summery	Kyle	Fri 4/05/19	Sun 4/07/19	3	0%	8	0	3
7.2	review poject summery	All	Mon 4/08/19	Tue 4/09/19	2	0%	2	0	2
7.3	present	Noah	Wed 4/10/19	Wed 4/10/19	1	0%	1	0	1
TEMPLATE ROWS									
See the Help worksheet for information about using template rows.									
1	[Task Category (label only)]								
2	**[Task Category (summary)]**		Tue 8/27/19	Tue 8/27/19	1		1		
2.1	[Level 2 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1
2.1.1	. [Level 3 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1
2.1.1.1	. . [Level 4 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1



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Level 1: 1, 2, 3, ...
Level 2: 1.1, 1.2, 1.3,
Level 3: 1.1.1, 1.1.2,
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You can manually enter the Start Date for each task or use a formula to create a dependency on a Predecessor. For example, you could enter =enddate+1 to set the Start date to the next calendar day, or =WORKDAY(enddate,1) to set the Start date to the next work day (excluding weekends), where enddate is the cell reference for the End date of the Predecessor task.

[6] End Date:
Calculated based on the Start Date and the duration of the task.

[7] Duration:
The duration is the number of calendar days for the given task.

[8] Percent Complete:
Update the status of this task by entering the percent complete (between 0% and 100%).

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Resiliency Platform Tool

Captain Cybeard

Project Lead: Noah
Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)
Display Week: 33

WBS [2	Task [3]	Lead [4]	Start [5]	End [6]	Cal Days [7	% Done [8]	Work Hours [9]	Hours Done [10	Hours Left [11]
1	**Project plan**	[Name]	Thu 8/29/19	Fri 9/27/19	30		22		
1.1	understand problem domain	ALL	Thu 8/29/19	Sun 9/01/19	4	100%	2	2	0
1.2	Determine scope	Trevor	Mon 9/02/19	Wed 9/04/19	3	100%	3	3	0
1.3	Identify Tasks	Ryan	Thu 9/05/19	Sun 9/08/19	4	100%	2	2	0
1.4	Estimate time to perform tasks	Ryan	Mon 9/09/19	Thu 9/12/19	4	100%	4	4	0
1.5	Schedule Tasks	Ryan	Fri 9/13/19	Mon 9/16/19	4	100%	2	2	2
1.6	Write project plan	Kyle	Tue 9/17/19	Mon 9/23/19	7	0%	5	0	7
1.7	Review Project plan	ALL	Tue 9/24/19	Thu 9/26/19	3	0%	1	0	0
1.8	Present Plan	Noah	Fri 9/27/19	Fri 9/27/19	1	0%	1	0	0
1.9	[Insert new rows above this one, then hide or delete this row]								
2	**Requirments**		Tue 8/27/19	Wed 12/11/19	107		27		
2.1	requirment meetings	ALL	Tue 8/27/19	Wed 12/04/19	100	0%	15	0	100
2.2	determine fesablity of requirmen	Trevor	Fri 9/06/19	Sun 9/08/19	3	0%	3	0	3
2.3	determine software needs	Trevor	Mon 9/09/19	Mon 9/09/19	1	0%	2	0	1
2.4	write requirements document	Kyle	Mon 12/02/19	Fri 12/06/19	5	0%	5	0	5
2.5	review requirements document	All	Mon 12/09/19	Tue 12/10/19	2	0%	2	0	2
2.6	present requirements	Noah	Wed 12/11/19	Wed 12/11/19	1	0%	1	0	1
2.7	[Insert new rows above this one, then hide or delete this row]								
3	**design**		Mon 1/13/20	Thu 1/23/20	11		9		
3.1	plan design	Ryan, Tre	Mon 1/13/20	Wed 1/15/20	3	0%	8	0	3
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3.3	Review design document	All	Mon 1/20/20	Tue 1/21/20	2	0%	2	0	2
3.4	present design document	Noah	Wed 1/22/20	Wed 1/22/20	1	0%	1	0	1
3.5	[Task]		Thu 1/23/20	Thu 1/23/20	1	0%	1	0	1
3.6	[Insert new rows above this one, then hide or delete this row]								
4	**implementation**		Fri 1/24/20	Wed 4/22/20	90		266		
4.1	learn Django and APIs	All	Fri 1/24/20	Wed 2/12/20	20	0%	60	0	0
4.2	initional setup django	Ryan	Thu 2/13/20	Thu 2/13/20	1	0%	1	0	1
4.3	make Django front end	Kyle	Fri 2/14/20	Fri 2/28/20	15	0%	60	0	15
4.4	make Django back end	Trevor	Sat 2/29/20	Sat 3/14/20	15	0%	60	0	15
4.5	aws api	Noah	Sun 3/15/20	Tue 3/24/20	10	0%	30	0	10
4.6	vmware api	Trevor	Wed 3/25/20	Fri 4/03/20	10	0%	30	0	10
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4.8	code review	All	Sun 4/19/20	Mon 4/20/20	2	0%	3	0	2
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4.10	[Insert new rows above this one, then hide or delete this row]								
5	**Testing**		Mon 1/13/20	Fri 2/07/20	26		31		
5.1	design tests	Noah	Mon 1/13/20	Wed 1/22/20	10	0%	10	0	10
5.2	test code	Trevor	Thu 1/23/20	Sat 2/01/20	10	0%	10	0	10
5.3	write up documentation	Kyle	Sun 2/02/20	Tue 2/04/20	3	0%	5	0	3
5.4	Bug fixing	Ryan	Wed 2/05/20	Thu 2/06/20	2	0%	5	0	2
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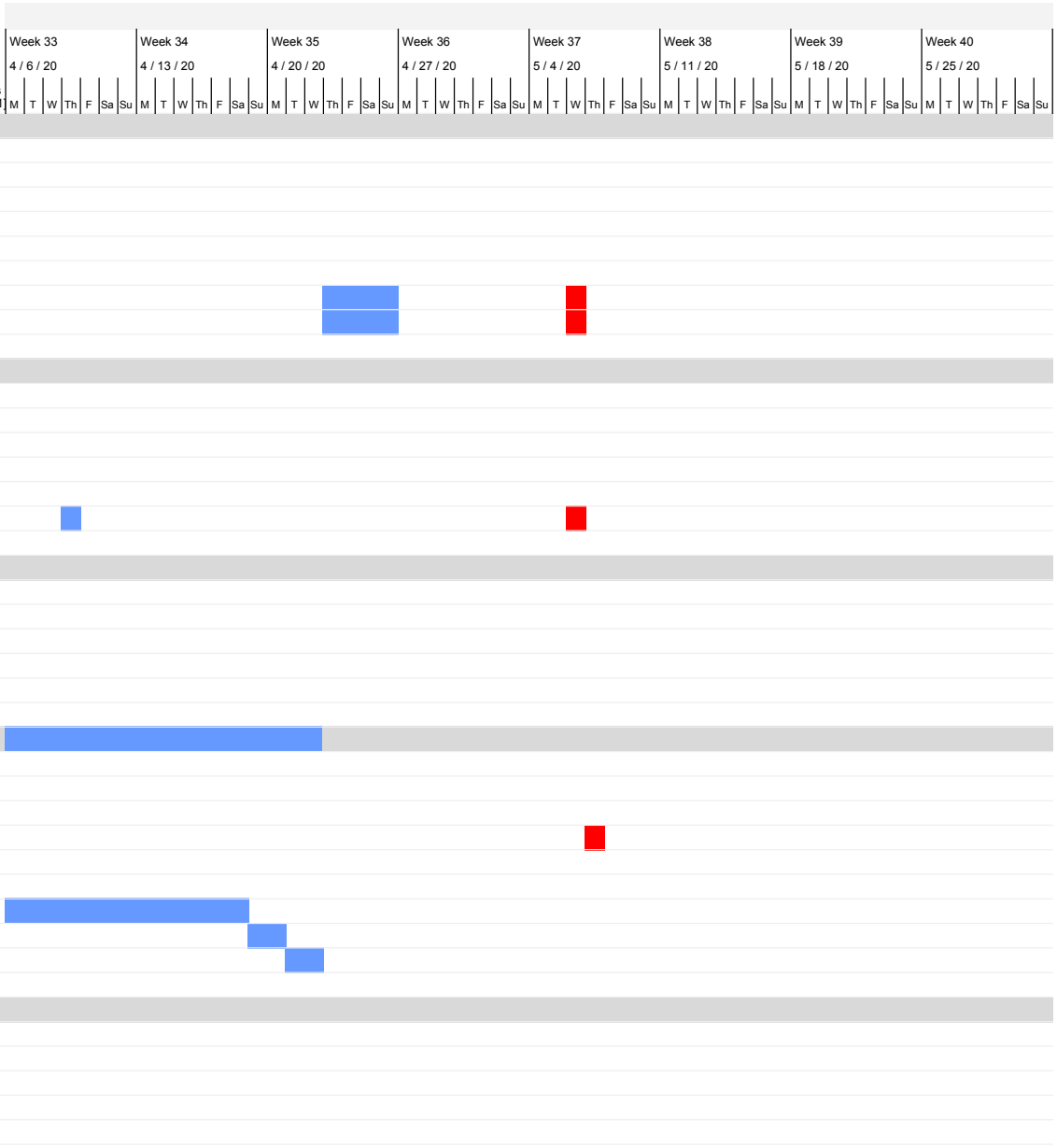

Resiliency Platform Tool

Captain Cybeard

Project Lead: Noah
Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)
Display Week: 33

WBS [2]	Task [3]	Lead [4]	Start [5]	End [6]	Cal Days [7]	% Done [8]	Work Hours [9]	Hours Done [10]	Hours Left [11]
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7.2	review poject summery	All	Mon 4/08/19	Tue 4/09/19	2	0%	2	0	2
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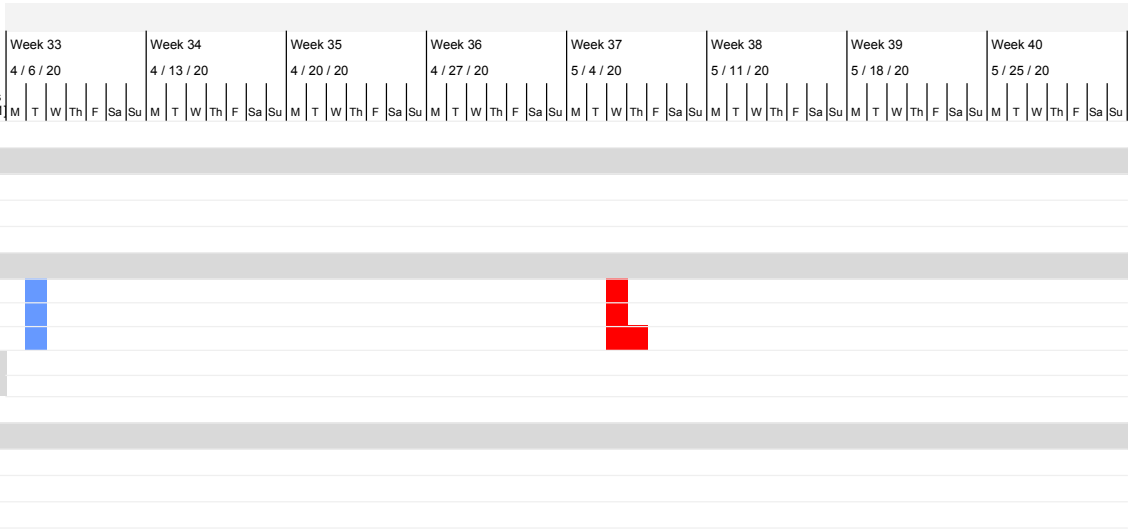
2.1.1	. [Level 3 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1
2.1.1.1	. . [Level 4 Task]		Tue 8/27/19	Tue 8/27/19	1	0%	1	0	1



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