

# 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

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## 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

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# 1 Introduction

This document is a project plan for developing a Django Web Application that allows Cypher Path users to enter a URL for online Virtual Machines and select which Virtual Machines will be downloaded onto Cypher Path's servers. The purpose of the project plan is to provide a roadmap for Cypher Path 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 so other platforms can be added in the future.

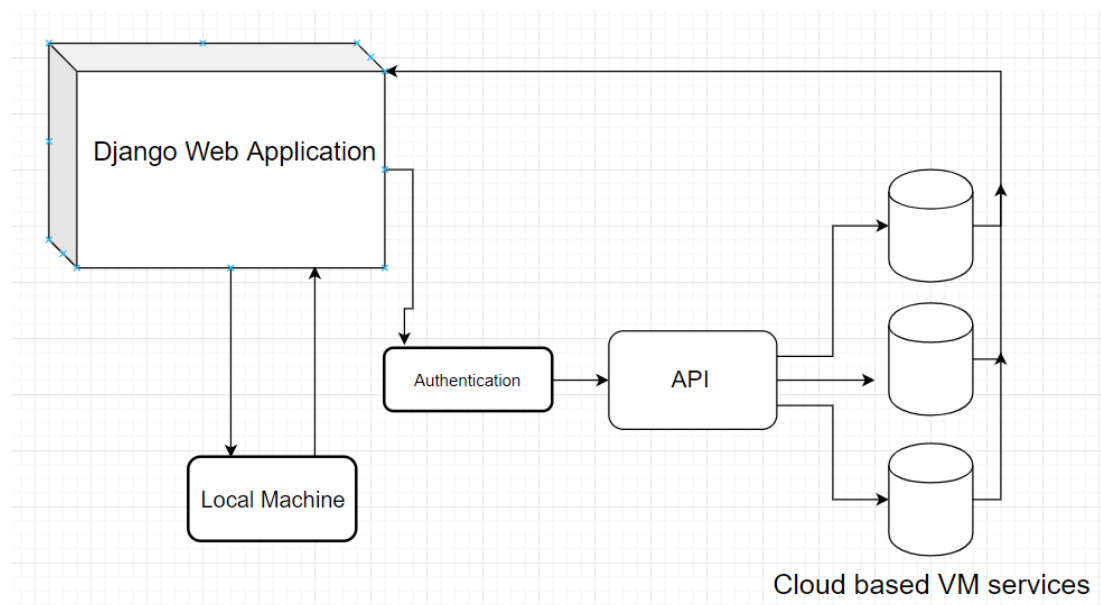


Figure 1: The application environment

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### 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 Cipherpath 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.

Captain Cybeard

Display Week: 1

Display Week: 1										Week 1			Week 2			Week 3			Week 4			Week 5			Week 6			Week 7			Week 8						
										8 / 26 / 19			9 / 2 / 19			9 / 9 / 19			9 / 16 / 19			9 / 23 / 19			9 / 30 / 19			10 / 7 / 19			10 / 14 / 19						
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Captain Cybeard

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)

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

Display Week: 1

[illegible]

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Calculated based on the Start Date and the duration of the task.

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Update the status of this task by entering the percent complete (between 0% and 100%).

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

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Captain Cybeard

Display Week: 9

[illegible]

Captain Cybeard

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)

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

Display Week: 9

Display Week: 9										Week 9					Week 10					Week 11					Week 12					Week 13					Week 14					Week 15					Week 16													
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Captain Cybeard

Project Start Date: 8/27/2019 (Tuesday)

Display Week: 25

[illegible]

Captain Cybeard

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)

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

Display Week: 25

Display Week: 25										Week 25 2 / 10 / 20							Week 26 2 / 17 / 20							Week 27 2 / 24 / 20							Week 28 3 / 2 / 20							Week 29 3 / 9 / 20							Week 30 3 / 16 / 20							Week 31 3 / 23 / 20							Week 32 3 / 30 / 20										
WBS [ 2 Task [ 3 ]				Lead [ 4 ]		Start [ 5 ]		End [ 6 ]		Cal Days	% Done	Work Hours	Hours Left	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52				
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 pojct 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.

[3] Task:

Enter the name of each task and sub-task. Use spaces to indent sub-tasks.

[4] Task Lead

Enter the name of the Task Lead in this column.

[5] Task Start Date:

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:

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Captain Cybeard

Project Start Date: 8/27/2019 (Tuesday)

Display Week: 33

Display Week: 33										Week 33					Week 34					Week 35					Week 36					Week 37					Week 38					Week 39					Week 40				
										4 / 6 / 20					4 / 13 / 20					4 / 20 / 20					4 / 27 / 20					5 / 4 / 20					5 / 11 / 20					5 / 18 / 20					5 / 25 / 20				
WBS [2 Task [3]		Lead [4]	Start [5]	End [6]	Cal Days [7]	% Done [8]	Work Hours [9]	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 fesability of requirment	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, Trevor	Mon 1/13/20	Wed 1/15/20	3	0%	8	0	3																																								
3.2	write design documnet	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																																								

Captain Cybeard

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)

Display Week: 33

**TEMPLATE ROWS**

See the Help worksheet for information about using template rows.

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