Project Plan

Captain CyBeard: Neil Before Us

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September 12, 2019



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

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Revision History

Revision	Date	${f Author(s)}$	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.

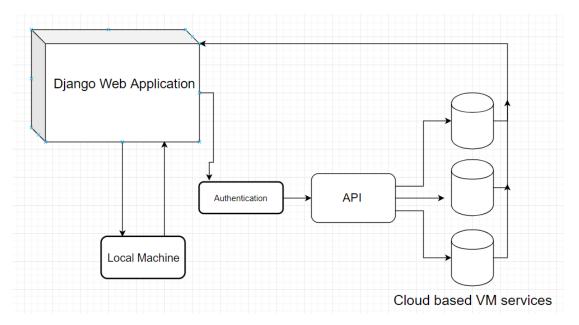


Figure 1: The application environment

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.

Captain Cybeard

Project Lead: Noah

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Captain Cybeard

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)

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Use the formula =TODAY() to make the red line in the gantt chart display the current day, or enter the date manually.

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Level 3: 1.1.1, 1.1.2,

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

Display Week: 17 Week 17 Week 18 Week 19 Week 20 Week 21 Week 22 Week 23 Week 24 12 / 23 / 19 12 / 30 / 19 1/6/20 1 / 13 / 20 1/20/20 1 / 27 / 20 2/3/20 12 / 16 / 19 Cal % Work Hours Hours
End [6] Days [7]Done [8] Hours [9]one [1C.eft [11] M T W Th WBS [2 Task [3] Lead [4] Start [5] 5.6 [Insert new rows above this one, then hide or delete this row] User's guide Sat 3/14/20 Wed 3/18/20 5 0 write user guide Sat 3/14/20 Mon 3/16/20 3 6.2 review user guide Tue 3/17/20 Wed 3/18/20 0 2 6.3 present user guide Wed 3/18/20 0 Wed 3/18/20 Fri 4/05/19 project summery Wed 4/10/19 6 Kyle 7.1 Write project summery Fri 4/05/19 0 3 7.2 review poject summery Mon 4/08/19 Tue 4/09/19 2 0% 0 7.3 Noah Wed 4/10/19 Wed 4/10/19 1 0 present **TEMPLATE ROWS** See the Help worksheet for information about using template rows. [Task Category (label only)] [Task Category (summary)] Tue 8/27/19 Tue 8/27/19 1 2.1 [Level 2 Task] Tue 8/27/19 Tue 8/27/19 0 Tue 8/27/19 0 2.1.1 . [Level 3 Task] Tue 8/27/19 2.1.1.1 .. [Level 4 Task] Tue 8/27/19 Tue 8/27/19 1 0% 0

Use the formula =TODAY() to make the red line in the gantt chart display the current day, or enter the date manually.

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Level 1: 1, 2, 3, ...

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Captain Cybeard

Project Lead: Noah

	Today's I	Date: [1]	9/27/2019 (F	riday)														
	Displa	y Week:	25						Week 25		Week 26	Week 27		eek 28	Week 29	Week 30	Week 31	Week 32
									2/10/2	0	2 / 17 / 20	2 / 24 / 20	3 /	/ 2 / 20	3/9/20	3 / 16 / 20	3 / 23 / 20	3 / 30 / 20
WRST	2 Task [3]	Lead [4]	Start [5]	End [6]	Cal	% Done (8)	Work	Hours I	Hours	Th E Colour		Sa Su M T W Th	E Co Cu M	T W Th E	S. M T W Th E S.	Su M T W Th F Sa	M T W Th E C -	Su M T W Th F Sa Su
1	Project plan	[Name]	Thu 8/29/19	Fri 9/27/19		23110 [0]	22	o. 10 [1C.	- ridwlilw	I I I I I	I I. I. I. I. I. I. I.	log log Livi Li Livi Liu	i joa jou M	T W Th F Sa	Su M T W Th F Sa S	20 [m] i [w] iii] i [Sa]	olwili iniinii loal	ou I w I i I as I iii L I log I ou I
1.1	understand problem domain	ALL	Thu 8/29/19	Sun 9/01/19		100%	2	2	0									
1.2	Determine scope	Trevor	Mon 9/02/19	Wed 9/04/19		100%	3	3	0									
1.3	Identify Tasks	Ryan	Thu 9/05/19	Sun 9/08/19		100%	2	2	0									
1.4	Estimate time to perform tasks	Ryan	Mon 9/09/19	Thu 9/12/19		100%	4	4	0									
1.5	Schedule Tasks	Ryan	Fri 9/13/19	Mon 9/16/19		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		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 rov	v]											_			
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 requirmer	n 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	e, then hide	or delete this rov	v]											_			
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	e, then hide	or delete this rov	v]														
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 rov	v]														
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									
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5.4	Bug fixing	Ryan	Wed 2/05/20	Thu 2/06/20		0%	5	0	2									
5.5	[Task]		Fri 2/07/20	Fri 2/07/20	1	0%	1	0	1									

Captain Cybeard

2.1.1.1 .. [Level 4 Task]

Project Lead: Noah

Project Start Date: 8/27/2019 (Tuesday)
Today's Date: [1] 9/27/2019 (Friday)

Tue 8/27/19

Tue 8/27/19 1 0%

0

Display Week: 25 Week 25 Week 26 Week 27 Week 28 Week 29 Week 30 Week 31 Week 32 2 / 10 / 20 2 / 17 / 20 2 / 24 / 20 3/2/20 3/9/20 3/16/20 3 / 23 / 20 3/30/20 Cal % Work Hours Hours
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Captain Cybeard

Project Lead: Noah

	Today's I	Date: [1]	9/27/2019 (F	riday)											,		
	Displa	y 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
WRS	2 Task [3]	Lead [4]	Start [5]	End [6]	Cal	% Done [8]	Work	Hours	Hours eft [11] M T W	5 5 5 5 M T	W Th F Co C	M T W Th E C		Ca Cu M T W Th E Ca	S. M T W Th E S.		C. M T W Th E C. C.
1	Project plan	[Name]	Thu 8/29/19	Fri 9/27/19		Done [o]	22	one [ic.	entin'i Mili IAA	ini r isa isu iwi i i	w i iii i e leale	Su M T W Th F Sa	Su M T W Th F	Sa Su M T W Th F Sa	Su M T W Th F Sa	sulw i i ivi iii e isai	Su M T W Th F Sa Su
1.1	understand problem domain	ALL	Thu 8/29/19	Sun 9/01/19		100%	2	2	0								
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Captain Cybeard

Project Lead: Noah

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

		roject otart bate.		,,												
		Today's Date: [1]	9/27/2019 (Fr	riday)												
		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]		Hours Hour one [10.eft [1	S N T W Th F Sa Si	⊔ M T W Th F Sa Si	M T W Th F Sa Su	M T W Th F Sa S	M T W Th F Sa Su			
5.6	[Insert new rows ab	ove this one, then hide	or delete this row	·]												
6	User's guide		Sat 3/14/20	Wed 3/18/20	5		9									
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7	project summer	y	Fri 4/05/19	Wed 4/10/19	6		11						<u>_</u>			
7.1	Write project summ		Fri 4/05/19	Sun 4/07/19	3	0%	8	0 3								
7.2	review poject summ		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								
	LATE ROWS															
See the	Help worksheet for ir	nformation about using t	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								
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