

# The PTB Simulation Report

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Scenario: Web Site Design

Created at: Thursday, May 24, 2018 9:45:07 PM

Last simulation run result: Scenario finished

Simulation Time: 21

Target Date: 21

Target Cost: 80000

Simulation Cash: 38571

Total Cost: 87430

Benefit: 73.84

Estimated Cost: 74950

Estimated Finish Period: 21

Scenario Information:

Project Name	Number of Tasks	Target Date	Initial Cash	Bonus per Period	Penalty per Period
Web Site Design	12	21	100000	1000	5000

Resource Information:

Name	Available Units	Available Units in Lead Time	Cost/Period	Idle Cost/Period	Firing Cost	Hiring Cost	Show Up Probability (%)	Firing Lead Time	Hiring Lead Time	Minimum Units	Maximum Units
Technology Programmer	3	3	200	50	100	500	95	1	1	1	8
QA Engineer	6	6	50	10	50	100	85	1	1	1	10
GD Graphic Designer	1	1	150	50	50	300	97	1	1	1	6
Content Webpage	1	1	150	50	50	300	97	1	1	1	5

Name	Availa ble Units	Availa ble Units in Lead Time	Cost/ Period	Idle Cost/ Period	Firing Cost	Hiring Cost	Show Up Proba bility (%)	Firing Lead Time	Hiring Lead Time	Minim um Units	Maxim um Units
Devel oper											
Projec t Manag er	5	5	200	100	100	150	97	1	1	1	5

Quality Requirements:

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Name	Formula	Importance	Minimum Value	Desired Value	Maximum Value	Best Mode	Evaluation
Security	$(4*[PS] + [TQ]) / 5$	9	1	10	10	Maximum	8.6
Performance	$(2*[TQ] + 2*[RT] + 3*[TG] + [PP]) / 8$	9	1	10	10	Maximum	8.75
Usability	$(2*[PLU] + 2*[IR] + [TQ] + [PU]) / 6$	8	1	10	10	Maximum	5.33

Task Information:

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Preparation	0	1	4	6000	Finished	Limited

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Extensive	4	5	6	0	0	1	0	5	0
Limited	2	3	4	0	0	1	0	3	0

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Planning	0	4	8	0	Finished	Drupal

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	Platform Security (PS)	Platform Usability (PLU)
WordPress	3	3	3	4000	1	1	1	0	0	6	6
Drupal	4	4	5	4500	2	1	1	0	0	9	8
Magento	5	5	6	2000	2	1	1	0	0	8	9
Custom CMS	6	7	8	0	5	2	4	1	0	2	10

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Layout	300	6	7	0	Finished	Predefined

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Predefined	1	1	1	1000	1	1	1	0	0
Custom Made	4	4	6	1500	3	1	3	0	0

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Content Preparation	500	5	6	5000	Finished	Use Existing

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Use Existing	1	1	1	0	0	0	1	1	0
Modify Existing	3	3	3	1000	0	0	1	2	0
Create New	4	5	6	3000	0	0	1	4	0

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Design	300	8	10	0	Finished	Purchase Theme

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Purchase Theme	1	2	3	4000	1	1	1	0	0
Develop	3	4	4	1000	3	1	3	0	0



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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Implementation	300	10	13	10000	Finished	Non Responsive

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	IsResponsive (IR)
Responsive	4	5	6	5000	4	1	1	1	0	10
Non Responsive	2	3	4	700	1	1	1	1	0	0

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Testing	200	13	19	0	Finished	Click Worker

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	Testing Quality (TQ)
Mechanical Turk	4	5	6	9000	1	2	0	0	0	6
In House	6	7	8	1000	5	8	0	0	0	10
Click Worker	5	5	5	10000	1	2	0	0	0	7

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Going Live	1000	17	20	5000	Finished	Dedicated Server

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	Response Time (RT)
Dedicated Server	3	3	3	8000	3	1	0	0	0	10
Shared Server	3	3	3	3500	3	1	0	0	0	5

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Training of Staff	100	13	19	0	Finished	Main Mode

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Main Mode	4	5	6	3000	2	1	0	0	1

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Marketing and SEO	1	6	8	1	Finished	Acme SEO

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	Traffic Generated (TG)
In House	3	5	7	1000	2	1	0	0	0	7
Acme SEO	2	2	3	4500	0	0	0	0	0	9

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Launch	1000	19	20	0	Finished	Power Launch

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed
Quiet Launch	3	4	5	1000	0	0	0	0	1
Power Launch	1	2	3	2500	0	0	0	0	1

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Project Name	Task Name	Cost of Split	Actual Start	Actual Finish	Income	Current Status	Selected Mode
Web Site Design	Management Processes	500	2	21	0	Finished	Ongoing Reviews

Mode Name	Optimistic Duration	Most Likely Duration	Pessimistic Duration	Fixed Cost	Technology Programmer Needed	QA Engineer Needed	GD Graphic Designer Needed	Content Webpage Developer Needed	Project Manager Needed	Processes Usability (PU)	Processes Performance (PP)
Ongoing Reviews	18	18	18	0	1	3	0	0	3	9	9
Periodical Reviews	15	15	15	0	1	1	0	0	1	6	7