



Project Management

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Document History							
Version	Description	Date	Author				
1.0	Added team members and time capacity	20.10.2017	N. Eckhart				
1.1	Added iteration planning for passed iterations #1 and #2.	21.10.2017	N. Eckhart				
1.2	Created planning, task assignments and time estimations for iteration #3.	23.10.2017	N. Eckhart				
1.3	Created planning, task assignments and time estimations for iteration #4.	06.11.2017	N. Eckhart				
1.4	Transferred all planning and task assignments from spreadsheet (#5 - #8)	10.12.2017	N. Eckhart				

1. Resources

PSIT3 is a 4-credit module which means each team member should work for a minimum of 120hrs throughout the semester. This brings us to a total capacity of 500hrs of man-hours for this project.

1.1. Team Members

Name	Function	Email
Raphael Emberger	Team Leader / Developer	emberrap@students.zhaw.ch
Nicolas Eckhart	PM / Developer	eckhanic@students.zhaw.ch
Stephan Bösch	Developer	boescste@students.zhaw.ch
Philipp Meier	Developer	meierphi2@studnets.zhaw.ch

2. Iteration Planning

2.1. Iteration #1

Iteration #1							
Incep	tion Phase	25.09.2017		06.10	0.2017		
No.	Task	Assignee Expect			Effective Time [h]		
1	Create Project Outline	Team	10hr:	5	11.5hrs		
2	Identify Use Cases	Team	8hrs		6hrs		
3	First Architecture determined	Team	4hrs		4hrs		
4	Setup Development Environment	Team	4hrs		6hrs		

2.2. Iteration #2

Iteration #2							
Elaboration Phase 09.10.2017 20.10.2017							
No.	Task	Assignee	Expe Time		Effective Time [h]		
1	Detailed Analysis and formulation of all Use Cases	Team	16hrs	5	16hrs		
2	Define Domain Model	R. Emberger	2hrs		1.5hrs		
3	Create Project Analysis Document	Team	16hrs	5	14hrs		

2.3. Iteration #3

Iteration #3						
Elabo	ration Phase	23.10.2017		03.1	1.2017	
No.	Task	Assignee	Expe Time		Effective Time [h]	
1	Project Management	N. Eckhart	4hrs		1hrs	
2	Finish Architecture Design based on previous sketches	S. Bösch	6hrs		4hrs	
3	Create Class Diagram and define Class Responsibilities	R. Emberger	8hrs		10hrs	
4	Create Interaction Diagrams	P. Meier	6hrs		8hrs	
5	Create GUI Mockups and Description of the Game Interface	N. Eckhart	8hrs		4hrs	
6	Update Glossary as needed	Team	2hrs		0.5hrs	

2.4. Iteration #4

Iteration #4						
Elaboration Phase		06.11.2017		17.1	1.2017	
No.	Task	Assignee Expected Time [h]			Effective Time [h]	
1	Project Management	N. Eckhart	4hrs		3hrs	
2	Compile all Artifacts from Iteration #3 into design document.	P. Meier	6hrs		8hrs	
3	Add additional descriptions required for design document diagrams.	S. Bösch	6hrs		6hrs	
4	Define UI Prototype parameters for implementation in the next iteration.	R. Emberger	8hrs		6.5hrs	
5	Create game class with game loop.	N. Eckhart	5hrs		5hrs	
6	Create map class that can load a simplified map from a file with only path and non-path tiles. (Only one layer.)	P. Meier, S. Bösch	12hr	S	14hrs	
7	Update Glossary as needed	Team	2hrs		0.5hrs	

2.5. Iteration #5

Iteration #5						
Const	ruction Phase	20.11.2017 01.1		01.12	2.2017	
No.	Task	Assignee	Assignee Expected Time [h]		Effective Time [h]	
1	Project Management	N. Eckhart	4hrs		1.5hrs	
2	Implement the layer class with three instances on the map.	S. Bösch	12hrs	5	11hrs	
3	Create enemies that spawn on layers, move along the path, damage the player and carry a bounty.	N. Eckhart	8hrs		9.5hrs	
4	Create the tower class with the firing, upgrading and destroy behavior classes.	R. Emberger	14hrs		12hrs	
5	Create an asset manager class with a sprite sheet and connect with all entities. (Towers, Enemies, Tiles)	P. Meier	8hrs		8hrs	
6	Create the in-game menu with all relevant information and buttons. (According to design mockups)	N. Eckhart	12hrs	3	15hrs	
7	Implement win and lose conditions with the relevant game states (Menu State, Game Over State, Victory State)	P. Meier	6hrs		6hrs	
8	Implement tower building via UI.	S. Bösch	8hrs		8hrs	
9	Update Glossary as needed	Team	2hrs		1.5hrs	

2.6. Iteration #6

Iteration #6						
Const	ruction Phase	04.12.2017 15.12		.2017		
No.	Task	Assignee	Expected Time [h]	Effective Time [h]		
1	Project Management	N. Eckhart	6hrs	6hrs		
2	Create user manual.	P. Meier	18hrs	15hrs		
3	Improve enemy movement with a heat map per layer.	N. Eckhart	10hrs	11.5hrs		
4	Implement multi layered towers.	S. Bösch	16hrs	14hrs		
5	Enable towers to target and fire at enemies.	R. Emberger	14hrs	10hrs		
6	Connect UI to tower destroy and upgrade functionality.	P. Meier	8hrs	8hrs		
7	Write the final report document.	N. Eckhart, S. Bösch, R. Emberger	24hrs	18hrs		
8	Update Glossary as needed	Team	2hrs	0.5hrs		