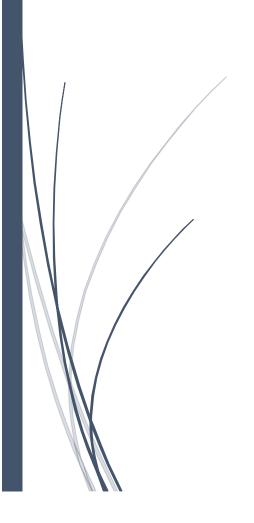05.04.2020

HYENA
Crossing

Alina Baciu

Yousef Abu Zahra

Bozhidar Bonev

Borislav Pavlov

Ghazi Abdul Fattah

Preface

Our group consists of five members: Yousef Abu Zahra, Alina Baciu, Borislav Pavlov, Bozhidar Bonev and Ghazi Abdul Fattah.

The purpose of this project is to deliver a fully functional traffic lights simulator as requested by our client, Andrius Kuprys.

The following document shows a series of actions which are carried out each week in order to achieve the particular wanted results for the ProCp project during the study weeks, together with the problems, challenges and decisions made during that period.

Another part of this document is represented by the „Personal Reflection" chapter, where we individually describe our experience gained while working on this project and „Extra Achieved & Completed" chapter where we describe what tasks we successfully completed.

Division of work among team members

Kick off phase
Week 1

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Proposal for the project	2h	25%	25%	(Wasn't in the team at the time)	25%	25%	100%
2.	Concept version of project plan	3h						
	Total time		1.25 h	1.25 h		1.25 h	1.25 h	

Week 2

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Research the to-be implemented application	1h	20%	20%	20%	20%	20%	100%
2.	Update Concept version of Project Plan	1h	20%	20%	20%	20%	20%	
3.	Create concept version of URS – Use Cases:							
a.	Start simulation	1h			100%			
b.	Stop simulation	1h			100%			
c.	Pause simulation	1h			100%			
d.	Create custom layout	1h	100%					
e.	Reset the map layout	1h	100%					
f.	Add/Remove one-way roads	2h					100%	
g.	Add/Remove two-way roads	1,5h					100%	100%
h.	Generate report	1h	100%					
i.	Save a file	1h		100%				
j.	Save as file	1h		100%				
k.	Specify number of cars generated	1h		100%				
l.	Add/Remove intersections	1,5h				100%		
m.	Add/Remove roads with traffic lights & Zebra Crossing	1,5h				100%		
4.	Create Meeting Minutes document	1h		100%				

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
5.	Create Meeting Agenda	30m	100%					
	Total time		3.5 h	4.2 h	3.3 h	3.3 h	3.8 h	

Initial phase
Week 3

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Discuss project plan	1h	20%	20%	20%	20%	20%	
2.	Concept plan for iteration 1	3h					100%	
3.	Update Project Plan & URS	1h	20%	20%	20%	20%	20%	
4.	Use Case Diagram	2h				100%		
5.	User Interface Sketches	7h	60%	40%				100%
6.	Create Meeting Minutes document	1h		100%				
7.	Create Meeting Agenda	30 min	100%					
	Total time		4.5 h	4.1 h	30 m	2.3 h	3.2 h	

Week 4

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Discuss URS & plan for iteration 1	2h	20%	20%	20%	20%	20%	
2.	Updated URS & plan for iteration 1	1,5h	20%	20%	20%	20%	20%	
3.	Create work division report	1h		100%				100%
4.	Create meeting minutes	1h		100%				
5.	Create Meeting Agenda	30 min	100%					
	Total time		1.1 h	2.4h	40m	40m	40m	

Iteration 1
Week 5

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Discuss future changes	1h	20%	20%	20%	20%	20%	
2.	Update URS	1,5 h	20%	20%	20%	20%	20%	
3.	Update work division report	1h		100%				100%
4.	Create meeting minutes	30 min		100%				
5.	Create Meeting Agenda	30 min	100%					
	Total time		1h	2h	30m	30m	30m	

Week 6

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Search Programming Design Patterns	2h	30%	15%	20%	20%	15%	
2.	Create small demo application	20h	100%					100%
3.	Create Concept Version of plan per Iteration 2	2h					100%	
4.	Code							
a.	Cars logic (Mediator included)	8h	100%					70%
b.	Roads/Lanes/ Grid/Cells	10h				50%	50%	20%
c.	Simulation & file options	2h		100%				30%
d.	Design the GUI	1.5h			100%			100%
	Documentation							
5.	Update Work Division Report	1h		100%				
6.	URS Update	1h				100%		

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
7.	Design Document							
8.	Create meeting minutes	1h		100%				
9.	Create Meeting Agenda	30 min	100%					100%
10.	Concept version of the UML diagram	1.5h	100%					
	Total hours		30h	4.1h	2h	1.5h	7.1h	

Week 7

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Cars logic	5h	100%					90%
b.	Roads/Lanes /Grid/Cells	5h				60%	40%	50%
c.	Simulation File options	1h		100%				20%
d.	Design the GUI	1.5h			100%			40%
2.	Documentation							
3.	Update Work Division Report	1 h		100%				
4.	URS Update	1 h				100%		
5.	Create Meeting minutes	1 h		100%				
6.	Create Meeting Agenda	30 m	100%					100%
7.	Final Version of plan for iteration 2	1h					100%	
8.	Iteration 1 reflection	1h	100%					
	Total hours		6.5h	3h	1.5h	3.3h	3h	

Week 8

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
	Cars Logic	2h	100%					100%
a.	Roads/Lanes/Grid/Cells	6h	40%			40%	20%	60%
b.	Simulation File Options	3h	25%	20%		30%	25%	40%
c.	Design the GUI	1h			100%			70%
	Documentation							
5.	Update Work Division Report	1 h		100%				
6.	URS Update	30				100%		
7.	Create Meeting minutes	40 m		100%				
8.	Create Meeting Agenda	30 m	100%					100%
	Total hours		5.6 h	2.2 h	1 h	4 h	2 h	

Week 9

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Roads/Lanes/Grid/Cells	7h	50%				50%	80%
b.	Simulation File Option							
B.1	Save & Save as file Options	3h		100%				90%
B.2	Open file	3h		100%				40%
c.	Design the GUI	2h		30%	70%			100%
	Documentation							
	Class Diagram	3h	100%					80%
5.	Update Work Division Report	1 h		100%				
6.	URS Update	30m				100%		

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
5.	Create Meeting minutes	30 m		100%				100%
6.	Create Meeting Agenda	30 m	100%					
	Total hours		7.5 h	7.5 h	1.5 h	30 m	4h	

Week 10

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Simulation File Options							
A.1	Created Actual Runtime for the application in the Generate Report	2h		100%				100%
2.	Sequence Diagrams							
	Generate Report	2h	100%					
	Specify the number of cars	1.5h	100%					
	Add intersection with/without zebra crossing	3h					100%	
	Remove intersections without crossing	2h					100%	
	Start Simulation	1.5h			100%			
	Stop Simulation	2 h			100%			
	Save & Save As	2.5 h		100%				100%
	Pause Simulation	1.5h				100%		
	Reset Map Layout	1.5h				100%		
3.	Update Work Division Report	1 h		100%				
4.	Create Meeting minutes	30 m		100%				
5.	Create Meeting Agenda	30 m	100%					
	Total hours		4h	6h	3.5h	3h	5h	

Week 11

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Working on Pedestrians	10h					100%	
b.	Working on Surprise Elements	1h	100%					80%
c.	Working on Dijkstra Algorithm	5h	100%					
d.	Working on Open file feature	3h		100%				60%
e.	Working on generated values for report	1.5h		100%				30%
f.	Iteration 3 Plan	1.5h				100%		
	Documentation							
5.	Update Work Division Report	1 h		100%				100%
5.	Create Meeting minutes	30 m		100%				
6.	Create Meeting Agenda	15 m	100%					
	Total hours		6h	5.8h	h	1.5h	10h	

Week 12

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Working on Dijkstra	10h	100%					
b.	Working on Emergency vehicles	5h	100%					

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
c.	Working on enable road sensors	10h					100%	
d.	Working on open file	2h		80%		20%		100%
e.	Reimplement the way cars are moving	10h				100%		
f.	Working on Generate Report	3h		100%				
g.	Working on the addition of the new lanes	10h				100%		
h.	Working on Simulation Speed	4h			100%			
	Documentation							
5.	Update Work Division Report	1 h		100%				
6.	Working on class diagram	2h	100%					100%
5.	Create Meeting minutes	30 m		100%				
6.	Create Meeting Agenda	15 m	100%					
	Total hours		17h	4h	4h	20h	10h	

Week 13

Nr.	Task	Total Time	Yousef	Alina	Bozhidar	Borislav	Ghazi	Task Completed
1.	Code							
a.	Add Night mode Design	6h				100%		100%
b.	Add Randbout type of rode	3h				100%		100%

		Hours						
c.	Working on Dijkstra	10h	100%					
d.	Working on sequence diagrams	2h	50%			50%		
e.	Implement Save and Close functionality of generate report	2h		100%				100%
f.	Fix Save & Saves as functionalities	1h		100%				
g.	Working on use cases	1h	100%					
h.	Implement Max/Current Flow	7h			100%			
i.	Working on pedestrians	5h					100%	
j.	Enabled Road Sensors	5h					100%	
	Documentation							
2.	Update Work Division Report	1 h		100%				100%
3.	Create Meeting minutes	30 m		100%				
4.	Create Meeting Agenda	15 m	100%					
	Total hours		12h	5h	7h	9h	10h	