

IMPLEMENTATION TEAM REPORT

Hex Game

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Meetings

Day/Time	Details	Duration
	A meeting between design and implementation team to know what are the steps that we will work on in our design Task given to implementation team was to study the design to find the language that will suit the project	2 hours
	In this meeting the implementation team decided that the used language will be C# which will ease the process of making the interface in unity We also agreed that the code will be composed of 3 main files Stack file Board file	1 hour
	In this meeting we wrote the stack file which contains the stack class	1 hour

	and its functions such as push, pop, isEmpty and top	
16 April	Skype meeting to check	1 hour
6 pm	progress in which we	
-	almost finished Board file	
	and we were discussing	
	the game algorithm	
19 April	Skype meeting between	1 hour
6 pm	implementation team and	
	Ahmed Adel (Leader) to	
	check the progress done	
	till now	
24 April	Integration between Board	1 hour
1 pm	file, Stack file and Game	
	algorithm file	
•	A meeting to fix the bugs	2 hours
4 pm	after integration	
30 April	Bugs fixed but non optimal	1 hour
1 pm	positions are placed,	
	another fix suggested	
2 May	More fixes are made to	1 hour
4 pm	board file	
4 May	We had to add some more	3 hours
4 pm	algorithms to the game	
	which required adding	

more files to the project like Bridge file

Bug Reports

Bug File	Bug	Fix	
MonteCarlo.cs	Copying tree node state wasn't correct	We implemented copy tree state function in state class	
MonteCarlo.cs	Copying player node state wasn't correct	We implemented copy player state function in player class	
MonteCarlo.cs	Taking too much time in simulation	We made it the simulation threaded to not take that much time in each simulation step	
MonteCarlo.cs	The simulation didn't make optimal moves	We used DSU algorithm and implemented it	

Playing Manual Guide

There are 3 modes to choose from

- 1. Player vs My agent
- 2. Player vs Opponent agent
- 3. My agent vs Opponent agent

The steps to launch the game are pretty easy

- 1. Choose the mode you want to play in
- 2. Choose if you want to enable swap move or not
- 3. Click on the cell you want to play in
- 4. Wait for the opponent to make his play
- 5. Enjoy the game until one of the two players win the game