Team ID:

Milestone:

Instructions

This document helps you to plan your game development process. Enter the features you have worked on in the current milestone column and specify a plan for future milestones to roughly plan out the features you game will need. You will likely get new ideas and refine your game during the course. Always update your development plan at milestone submission time.

Each feature you implement allots your team a specified number of points, for each milestone you must attain 100 points to receive full marks for that milestone. Certain features are required for specific milestones, others you can complete as you see fit. Required features can be completed early but never late, meaning if you finish the required features for future milestones in an earlier milestone submission, you will be credited at the earlier milestone, leaving room for additional optional features in the future one.

The list below includes both required and suggested features, with the amount of points each will award when implemented fully. We highly encourage you to work on your own custom features, beyond what has been suggested here. **Important:** Please discuss the amount of points custom feature are worth with the TAs before working on them.

Grading

You will receive full credit for features only if they are fully operational. We deduct points for sloppy, buggy and incomplete implementation. More complex features or those better fitting into the overall game will be rewarded with more points. Bonus points can be gained for features exceeding 100 points. The relation of bonus to excess feature points in sub-linear and at the markers discretion (quality > quantity).

Development Plan

Fill in the table below, entering the maximum number of points possible for each feature (as specified for each feature in the Points column) and add the initials of the author who implements the feature to the right of the table, under 'Initials'. Our grading will replace these with the actual points awarded, based on functionality and completeness. An entry is disabled if a feature cannot be implemented for a certain milestone, either because it is late and cannot be claimed for credit, or if it is too early in development and the foundations needed to implement a certain feature are missing (eg. doing gameplay III before gameplay II etc).

A comment attached to every row of the table explains the feature and links to additional resources if available.

Legend

Category	Title	Points M1	M2	М3	M4	Initials
Game mechanic	Delay-agnostic design	10				
& content	Gameplay I	10				DB
	Gameplay II	10				
	Gameplay III	10				
	Level editor	10				<u>.</u>
						NL
						1
						_
Al	Random/coded action	5				
	State machine	10				FF
	Behaviour tree	10				1
	Simple path finding	10				1
	Swarm behaviour	10				4
	Advanced decision-making	10				DB
	Cooperative planning	10				4
						1
					+	
Animation	Keyframe animation	5				
Animation	Sprite animation	10				EW
	Free-form deformation	10				-**
	Articulated motion	10				1
	Inverse kinematics	10				1
	Complex prescribed motion	10				1
	Complex processed model	10		+		1
		+		 		1
		+ +		+		1
Rendering	Textured geometry	5		+		1
	Adaptive resolution	5				DB, J
	Debugging graphics	5				DB, F
	Parallax scrolling background	10				, '
	Advanced fragment shader	10				1
	Advanced geometry shader	10				1
	Light	10				
	Particle systems	10				1
						1
Software eng.	Observer pattern	10				
	Level loading	10				ΥH
	Save and reload	10				1
	External integration	10				DB, F
	Advanced ECS	10] ′
	Multi-treading job system	10				
User Experience	Help	5				YΗ
	Tutorial	10				
	Story	10				
	Game balance	5				
						4
		10				<u> </u>
UI and IO	Keyboard/mouse control	10				∤
	Camera control	5				JL
	Mouse gestures	10				<u> </u>
	Audio feedback	5				YH, C
	-	+				-
		+				1
Dhysics & Simulation	Basic collision detection	10		+		1
Physics & Simulation		10				-
	Collision Resolution	10				-
	Precise collision Non-convex collision	10				1
	Precise physics	10				1
	Constrained physics	10				1
	Constanted physics	10		+		1
		+ +		+		1
		+ +				1
Assets &	Graphics assets**	5				EW
Quality	Lag mitigation**	5				*
	Crash free**	5				*
	Memory management**	5				
	Bug and feature fixes**	5				DB, F
						1
		 		1		1
		 		1		1
Custom Features		 		1		1
		 		1		1
		 		1		1
		 		1		1
		 		1		1
		+				1
		<u> </u>	I I	ı	1	

^{**}These quality points are mandatory at every marked milestone. Fulfillment of these yields the 5 points at every milestone marked as mandatory.