## **Project 3 Requirements Document**

This document outlines previous project work and requirements for Project 3. It includes summaries of past programming assignments and the current feature and sprint requirements for the new project.

## **Previous Projects**

Ref#	Story No.	Story Pool	Story Source	Summary (25–50 words)	
1	1	EECS 168 Board Wo	rkPython	Printed 'Hello World' to the terminal as a first introduc	tion to Pyth
2	1	EECS 168 Lab 2	Python	Calculated expected number of people sick with the f	lu using a p
3	1	EECS 168 Lab 3	Python	Created a guessing game similar to Wordle, tracking	guesses ar
4	1	EECS 168 Lab 9	Python	Developed a Circle class with attributes like diameter	, area, and
5	2	EECS 581 Assignme	n <b>t</b> P2/thon	Built an easy-difficulty Minesweeper AI that selects so	quares rand
6	2	EECS 210 Assignme	ntA2ny Language	Program checked truth statements with P, x, and y to	determine
7	2	EECS 468 Lab	Haskell	Created 'Hello World' program in five different ways t	o explore o
8	3	EECS 268 Assignme	n <b>1C5</b> ++	Simulated a blob that moves through a map and eats	people; inc
9	3	EECS 581 Use Case	Ploeixts Analysis	Analyzed project use cases for complexity using key	vords and a
10	3	EECS 210 Assignme	n <b>tP6</b> ython	Solved Sudoku puzzles by filling zeros and outputting	; completed
11	3	EECS 268 Lab 1	C++	Read and sorted data from a file by rating or sales, the	en displaye
12	3	EECS 268 Lab 6	Python	Implemented a Binary Search Tree with preorder, inc	rder, and p
13	5	EECS 268 Lab 7	Python	Built a Pokédex using file I/O and BST for searching	Pokémon d
14	5	EECS 348 Lab 6	C++	Performed matrix addition and subtraction based on	user input.
15	5	EECS 348 Final Proje	e <b>c</b> C++	Parsed and tokenized algebraic expressions to simpl	ify logical o
16	8	EECS 565 Assignme	n <b>L3</b> nux VM	Simulated a buffer overflow attack in a controlled, rar	domized-fr
17	8	EECS 388 Final Proje	e <b>c</b> C++	Created a simulated self-driving car responding to LII	DAR and ca
18	8	EECS 678 Buddy Allo	ocProject	Simulated memory allocation and recovery using a b	uddy syster
19	8	EECS 330 Directed C	Gr <b>©ph</b>	Developed a directed graph structure using previous	data struct
20	13	EECS 510 Final Proje	eccustom Languaç	eCreated a formal language for FSM/PDA/Turing Mac	hine and si
21	13	EECS 468 Lab 8	Haskell	Parsed arithmetic instructions and tokenized input for	computati
22	13	EECS 678 Quash Pro	 oj <b>€</b> ct	Simulated a shell that executed terminal commands	
			•		1

## **Project 3 Requirements**

ID	Description	Story Points	Priority	Sprint No.	Notes
1	Get Godot setup and installed	2	1	1	Install the Godot game engine
2	Familiarize with Godot	3	1	1	Take tutorials and explore interface
3	Create spaceship movement	5	1	1	Implement acceleration and realist
4	Create environment	3	1	1	Add asteroids and objects
5	Collision detection between asteroid and rocket	2	1	1	Detect collisions; player dies on hit
7	Deliver packages between two points	3	1	2	Enable transport objectives
8	Create space station/base	2	1	2	Add respawn and upgrade base
9	Create golden asteroid collectible	2	2	2	Add resource-based asteroids
10	Mini map	5	2	3	Show player surroundings
11	Fuel depletion	2	2	3	Fuel reduces with movement; affect
12	Ship upgrades	1	2	3	Allow ship improvement (fuel, spee
13	Resource management	1	2	3	Handle variables tied to resources
14	Quest manager/log	5	2	Final	Track and manage tasks
15	Oxygen depletion	1	3	Final	Player dies if oxygen runs out
16	Testing and debugging	8	1	Final	Fix game issues and ensure stabili
17	Game balance	2	1	Final	Ensure fair and fun gameplay expe