### **Project Status Report**

Project Name: G4RCE Racing

Team Members: Cassandra Companion, Brian Louis, Stephanie Petronella, Garrett Sullivan

Date: 4/5/2020 Cycle Number: 2

System Intent: To develop a car racing game that delivers a fun and unique experience to users through granting the users

customization choices and creative powers.

Cycle Intent: To make races more realistic and enjoyable (better car motion, timer and lap counter features, multiple

tracks to choose from).

#### Accomplishments since the last status report:

• Car movement and rotation can now be easily controlled, and the car moves in the correct directions.

Figured out how to use the virtual machine with game files.

### Obstacles encountered since the last status report:

• The car seems to "slide"/"skate" when driving around the track.

- Have not yet been able to get JUnit correctly set up with the game.
- Car movement does not slow down when passing over mud or grass for an unknown reason.

### Risks facing the project:

None at the moment

### Objectives for the next week:

- Resolve the issue with the car sliding around the track when driven
- Fully integrate the virtual machine
- Have JUnit functioning with the game project
- · Test the new tracks for functionality with the game code
- Create tests for the virtual machine
- Figure out how to implement SensorListener methods in order to make mud and grass sense an overlapping car and lower the car's velocity

# User Features:

			Planned		Actual			
# 1	User Feature < Short Name: Short Description> Interactable Game Menu: The user will be able to click on buttons that lead into other menus or into a race.	Cycle planned for completion 2	Total planned hours 30	Planned hours this cycle 14	Status (completed, discarded, in progress, unstarted, etc.) Code completed. Needs to be tested.	Actual hours this cycle 2	Total actual hours this project 18	
2	Timer: The user will be able to see the time they took to complete three laps.	2	20	16	Coding has been paused because of dependen- cy on VM.	0	4	
3	Car Motion Code: The user will be able to type in code given a set of possible commands, and a virtual machine will read this code.	3	60	20	Coding in progress. Test suite is unstarted.	17	37	
4	Mud Obstacle: Whenever the race car passes over mud on the track it will slow down.	2	30	10	Coding in progress. Test suite is unstarted.	11	31	
5	Waypoints: The user will not be able to cheat races by going backwards because there will be waypoints in the track's code.	3	20	0	Unstarted	0	0	
6	Multiple Track Selection: The user will be able to choose from multiple tracks already made.	2	20	11	Tracks are being redone for successful integration. Test suite is unstarted.	8	21	
7	Lap System: Each track will have a set number of laps for determining that a player has completed a race.	2	20	20	Design documentat ion created. Code and test suite are not yet started.	.5	.5	
8	Improved Car Movement: The car will move more realistically.	2	20	20	Coding in progress. There is an obstacle (see above). Test suite is unstarted.	17	17	

# Team Actions:

	User Feature <# o	Planned	Actual									
				Planned hours	Process hours		Product hours		Customer hours		Total hours	
Name	Coder(s)	Tester(s)	Reviewer(s)	this cycle	Week	Cycle	Week	Cycle	Week	Cycle	Week	Cycle
Cassandra Companion	2, 6	8	2, 6, 8	36	0	0	5	8	0	0	5	8
Brian Louis	3	1, 7	3, 1, 7	36	0	0	12	19	0	0	12	19
Stephanie Petronella	4, 7	6, 3	4, 7, 6, 3	36	2	6	8	16.5	0	0	10	22.5
Garrett Sullivan	1, 8	4	1, 8, 4	36	1	2	9	19	0	0	10	21