TrafficRush

Game Design Document



Created Through Unity

**Game Overview:**

**Title:** TrafficRush

**Platform:** PC/Mac Standalone

**Genre:** Traffic racing game

**Rating:** G

**Target:** Casual gamer (aging from 12 - 30)

**Release Date:** May 8th, 2019

**Publishers:** Colin Waters, Youssef Iraqi, Brian Rafferty, Jose Untalan

TrafficRush is a traffic racing game, in which you play as the driver of a car going down a road. The road has many cars going in both directions that the player must avoid. If the player’s car touches another car they will lose the game. Additionally, there are various other obstacles the player must avoid as they traverse the road. The player must get to the end of the road without touching anything to get the highest score possible.

**Unique Selling Points:**

• Fun and easy to hop into

• Simple controls

• Unique obstacles

**Platform Requirements:**

Any computer built after 2004 and running Windows/OSX should be able to run TrafficRush.

**Game Objective:**

The objective of the game is to reach the end of the road as fast as possible without touching any cars or obstacles. The highscore system will keep track the player’s ability to complete this goal by keeping track of their shortest time to complete the game.

**Game Rules:**

There are two levels in the game. In each level the game is a closed environment, the road. The Player can drive anywhere they wish within the bounds of the road but must be careful to avoid the other cars and obstacles. The other cars are driving in both directions on the road and at different speeds. The player will lose if they touch any other car or one of the obstacles. The player must attempt to reach the end of the road in the shortest amount of time.

**Game Structure:**

Menu Screen 🡪 Main Level 🡪 Gameover Screen

The menu screen will contain buttons to play the game, to view the instructions, and to quit the game. Once the player loses the game, they are sent to a gameover scene and given the option to go back to the main menu, see the credits, or quit the game.

**Game Controls:**

The player will use the Arrow Keys on their keyboard to drive the car. The Up Arrow Key moves the car forward. The Down Arrow Key causes the car to break. The Left and Right Arrow Keys cause the car to turn left and right while moving forward.

**Game Camera**

When the game starts, the camera will focus on the player and follow the player as they drive down the road. The camera will move forward and backward as the player does, but it will not rotate when the player turns the car.

**HUD:**

The HUD will consist of two items: The level that the player is on. The score text that displays the player’s score throughout the session.

**Player:**

The player is the driver of a car travelling down the road. The player controls the car and must drive it to the end of each level.

**Player States:**

**Idle:** The car does not move. Only occurs when the game is paused.

**Move:** The movement animation will cause the car to drive forward. It is triggered as soon as the game starts.

**Enemy:**

The enemies are the cars that are also travelling in both directions down the road, as well as the other obstacles the player comes across on the road. If the player’s car touches any of these cars or obstacles, they will lose the game. All of these enemies must be avoided as much as possible.

**Enemy States**

All enemies possess the same behavior and states, as described below:

**Idle:** The enemies play the idle state, which is no movement. This only occurs when the game is paused.

**Move:** While the player is alive, all enemies will be in the move state. The cars will be driving down the road and the obstacles will loop their animations.

**Level:**

The level is an endless road passing through a desert. The player and all of the enemies are on this road. The cars are driving down the road, similar to the player, and the other obstacles are spread out at various positions on the road.

**Audio:**

There are multiple sounds that are heard in the game. There is a constant song that is looped throughout the game. There is an acceleration sound that is played when the car is moving. There is a car breaking sound that is heard when the down arrow is pressed. There is a destruction sound that is played when the car touches another car or an obstacle.

**Wishlist:**

• Additional levels with different themes and difficulties

• Different vehicles encountered on the road

• More types of obstacles

• Powerups found along the road