Albert Chang Andrew Chen Joanna Clark Steven Tran Valeria Vikhliantseva

Frog Masters Single Player Architecture Document

CameraController

- The camera locks onto the screen on each **Update**.
- Only moves up when player moves up.

Car

- Start generates random speed for each car object on initialization.
- Moves car at set speed to opposite side of map from spawn on every FixedUpdate.
- Car objects are destroyed when out of map range (**OnTriggerEnter2D**).

Car Spawners

- SpawnCar randomly creates a car object at one of the spawn points.
- Update controls the delay between car spawns..

Frog

- **Update** moves frog up, down, left, right according to user input and forbids player from moving beyond the map's bounds. It also uses raycasting to check if the player is on water without being on a log, setting a "Lose" scene if so.
- OnTriggerEnter2D parses what terrain the frog is, and sets a "Lose" state if hitting a car and a "Win" state if at the end of the map.

Start

• Update checks for user input: Space to start the game and R for menu screens.

Wood

- Start initializes a random speed for each wood object
- Wood moves left or right continuously on each **FixedUpdate**.
- Wood objects are destroyed when out of map range. (OnTriggerEnter2D).

Wood Spawners

- SpawnWood randomly spawns a wood object at one of the wood spawn points.
- Update controls the delay between car spawns.