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Group 402: Adding Vehicles to Covey.Town

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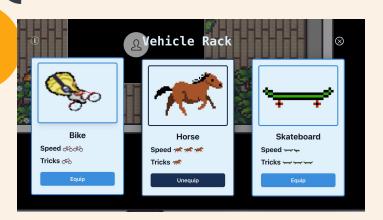
"As a user who wants to use vehicles, I want an accessible vehicle pick-up station and a tutorial on how to use them so that I can use a vehicle."

"As a user, I want ways to equip and unequip a vehicle such that my movement speed changes depending on what vehicle I have."

"As a user with a vehicle, I want to be able to do tricks to have more fun in Covey.town."

Features Implemented

- 3 new vehicles! (skateboard, bike, and horse), with all new speeds and animations
- Vehicle rack for selecting your vehicle, including a descriptive tutorial
- New typing minigame, allowing tricks to be performed on your vehicle
 - Includes local and all-time leaderboards











	Back	ack Leaderboard		
	① Current		① All Time	
١	RANK	INITIALS	HIGH SCORE	
ı	1	LIA	1100	
į	2	EVH	1000	
	3	SAM	1000	
	4	LJE	1000	
	5	LJE	900	
	6	EEE	900	





Tiled - Map editor used to implement our custom interactable zones and sprites

Piksel - Sprite/Animation creation tool, used for all custom sprites and animations

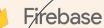
Free Texture Packer - free sprite atlasing tool to generate useful spritesheets

Firebase - Used their cloud database tool in order to store our leaderboard information

Render - Platform used to deploy and host our finalized version of Covey. Town

Covey. Town existing tech stack (Typescript, React, Jest, ChakraUI)











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• Ethan - BE implementation for trick game, Leaderboard HTTP API, tests

o Percent: 25 Hours: 55

 Abhay - Vehicle data structures, BE vehicle equip, trick game FE/partial BE, Leaderboard implementation

o Percent: 25 Hours: 60

 Liam - BE/FE Implementation for the vehicle rack, UI redesign for our frontend pieces

o Percent: 25 Hours: 55

 Sam - Art + implementation/integration for custom sprites/animations for vehicles + interactable areas

o Percent: 25 Hours: 50



Challenges

- Animations: lots of learning + time-consuming (bad at art)
- Firebase Memory Issue
- 3. Tricks can only be performed in a specific area
- 4. Setting up asynchronous timer in the backend
- 5. Creating super and subclasses for Vehicles vs adding it as a shared type interface

Deviations - not completed due to time constraints

- 1. Did not implement our desired feature of letting users choose the color of their vehicle
- 2. Did not complete our optional feature of letting the user do tricks anywhere (not just in the vehicle trick area)
 - a. Associating a custom event with a Phaser key event was tricky for our use case

We devoted more time to make our functional UI be very visually appealing and engaging for users

live demo!

Thank you

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