

React Native:

Countdown Timer Application

Problem

Build a countdown timer in React Native with controls to add time, speed up / slow down the countdown, pause and resume.

Requirements

- The user should be able to enter a # of minutes (positive integer) and click a "Start" button to initialize the countdown.
- Timer format: MM:SS
- The user should be able to pause & resume the countdown using pause/resume buttons.
- While the countdown timer is active, the user should be able to speed up / slow down the speed at the following rates: -- 1.0X (normal speed, selected by default) -- 1.5X -- 2X
- When half of the selected duration has been passed, display a string of text above the countdown timer reading: "More than halfway there!"
- When the countdown timer reaches 0, this text should change to: "Time's up!"
- When the countdown is within 20 seconds of ending, the countdown timer text should turn red.
- At 10 seconds, the text should start blinking.
- Include unit testing for applicable functionality.
- The countdown timer functionality should be appropriately divided into well-defined components.
- The look of the countdown timer should have a production-ready clean/modern aesthetic. Feel free to creatively stylize the elements.
- Extra credit: Play a sound as the timer ends.
- Export as a git repository (either as a .zip file or a link to a public repository) with screenshots in the README.md file.

Mock-up:

