**Feature**:

1. A countdown timer is designed to count down to a particular event.
2. The Project has 5 components to it.
   1. Slider: To set a time range . For now, I have given max time as 60 min (1hr). It can be given any range.
   2. Analog display: To show the count down
   3. Digital display: To show the count down with exact minutes and seconds
   4. Reset Button: To reset the time range
   5. Start Button: To start the countdown.

**Which mobile browser or emulator the committee should review the submission on.**

All modern browsers. I have tested in Safari, Chrome.

**What engineering considerations drove your solution?**

While developing the application the below key points were my consideration points:

* Reusability
  + The code is reusable across any application as it is having less dependency on various plugin/library or framework.
* Light weighted
  + Instead of using heavy plugin/library/framework for UI or functionality just used JS, SCSS and canvas which made it light weighted.
* Highly Scalable
  + Application scalability is the potential of an application to grow in time, being able to efficiently handle more and more requests. This application is highly scalable and can be customized or scaled in terms of setting the range , modifying the various component in UI or changing the entire look and feel of the application.
* Maintainable
  + Very less component has been introduced for the problem. So, it can be maintained very easily.
* Easy to understand
  + Easy to understand and take it forward.

**What user experience questions shaped your prototype?**

-- Goal of the project

--Does the product solve a real need? How does it solve that need?

--competitive products

--How the other countdown timer works. Checked in mobile phone countdown timer and checked the standard.

--what device is it for?

-- how the product will be used (web app, responsive website, mobile app, etc.), on what device(s).

--If the product already has a predefined UI and the project is for improvements or a redesign?

-- We already had a predefined model and the design should be around it .

--What are the deliverables?

-- A countdown timer design is already provided with an analogue and digital display to me.Need to modify the design and develop the UI to set a time range where the countdown functionality works .

Keeping the above question and prerequisite in mind added the above component , developed the application.

**Improvement points:**

If there was more time below features could be introduced:

1. Could be added hour slider to set count down in Hours and date picker as well as to show the countdown date wise.
2. Once the countdown is finished then success message will appear
3. Accessibility could have been introduced.
4. Improved look and feel.
5. More edge cases can be handled