Test Scores
(Approach Document)

I have implemented the user interface using HTML, CSS & JS to achieve following functionalities-

The page contains three horizontal bar graphs to represent three different scores.ie. Total score, Quant score and verbal score, with below **max scores**:

Heading	Max Score
Total Score	800
Quant Score	60
Verbal Score	60

The text below each bar graph is a feedback generated for the obtained scores. It indicates how near or far the candidate is from his target score.

INPUT VALIDATIONS
Verbal score: Verbal score should be an integer between 1 and 60.
Quant score: Quant score should be an integer between 1 and 60.

WORKFLOW OF THE UI
I have broken down the UI into two sections: **Score UI** and **Bar graphs UI**
The first view should be as below:
This view has **quant** and **verbal score input fields**.

Quant   Verbal

Current [   ] Target [   ]   Current [   ] Target [   ]

Submit and Refresh

Once user enter the scores and click on the ***Submit and Refresh*** button, he can see the Graphs section on the same page below this button which shows his report in the graphs and appropriate feedback for the same.

Hence, the complete UI after submission should look like as shown in the image below:

Anumeha Chakravarty

Quant

Current 45   Target 55   Verbal

Current 56   Target 59

Submit and Refresh

Total Score

705

705   +65

Your estimated test score per your performance in this mock test is 705, which is **65 points** lower than your target test score of 770.

Quant Score

Q45

45   +10

Your estimated quantitative score per your performance in this mock test is Q45, which is **10 points** lower than your target quantitative score of Q55.

Verbal Score

V56

56+3

Your estimated verbal score per your performance in this mock test is V56, which is **3 points** lower than your target verbal score of V59.

Changing the input value and submitting reflects in the corresponding graphs and feedback i.e. Total Score, Quant Score and Verbal Score will be refreshed.

EXAMPLE CASES which are implemented

1. **Empty/Zero:**

Quant

Current

This page says

Field can not be empty or 0!
Please enter valid a number.

OK

Submit and Refresh

2. **Alphabets in anyone of the input fields:**

Quant

Current 45   Target r   Verbal

Current 34   Target 23

Submit and Refresh

Anumeha Chakravarty

Quant

This page says

One or more of the entered values is not a number or negative number.
Please enter positive numbers only(0-60).

Current 45   23

OK

On click of **OK**, values are reset:

Quant   **Verbal**

Current [   ]   Target [   ]   Current [   ]   Target [   ]

Submit and Refresh

3. **Current score is equal to Target score:**

Quant   **Verbal**

Current [45]   Target [45]   Current [45]   Target [45]

Submit and Refresh

Total Score

650

650

Your estimated test score per your performance in this mock test is 650, which is equal to your target test score of 650.

Quant Score

Q45

45

Your estimated quantitative score per your performance in this mock test is Q45, which is equal to your target quantitative score of Q45.

Verbal Score

V45

45

Your estimated verbal score per your performance in this mock test is V45, which is equal to your target verbal score of V45.
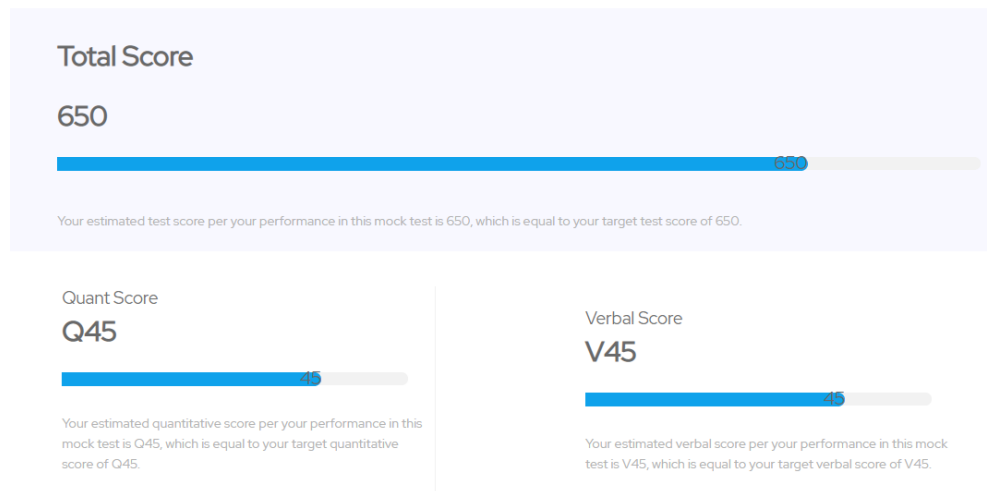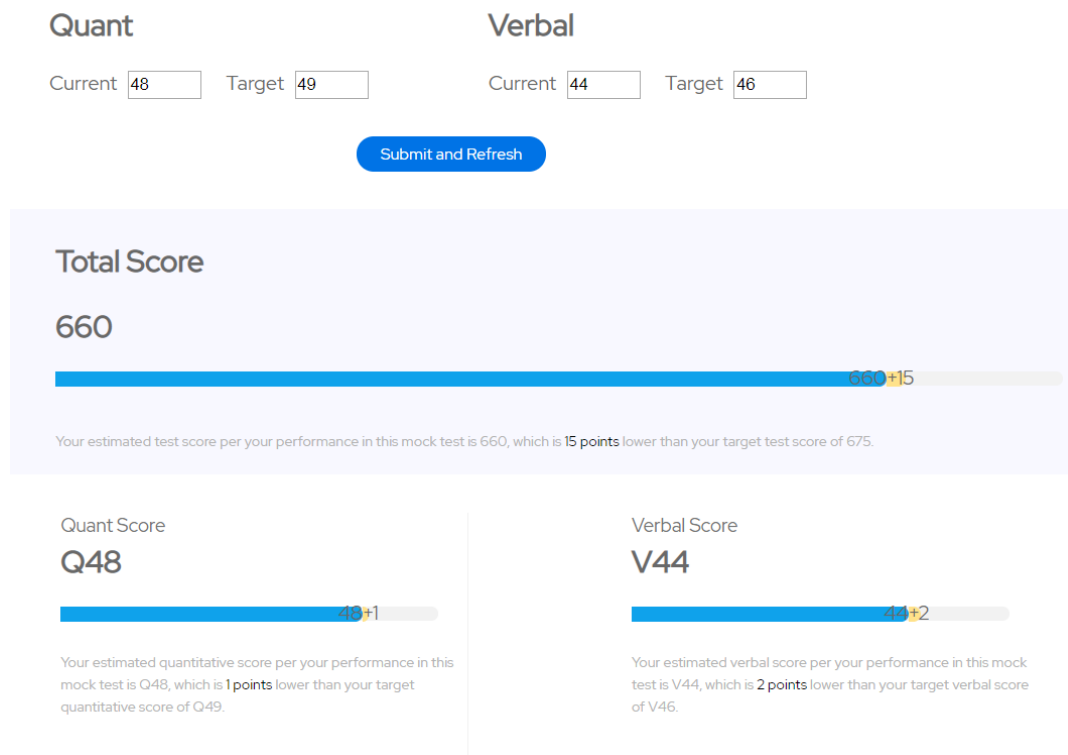
In the above example Total target and current scores are equal hence the yellow target score marker and blue score marker is aligned vertically opposite to each other. *Scores markers are not overlapping each other.*
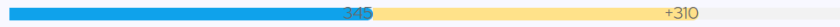
4. **CURRENT SCORE IS NEAR TO TARGET SCORE**

Anumeha Chakravarty

Quant

Current 48   Target 49

Verbal

Current 44   Target 46

Submit and Refresh

Total Score

660

660 +15

Your estimated test score per your performance in this mock test is 660, which is **15 points** lower than your target test score of 675.

Quant Score

Q48

48 +1

Your estimated quantitative score per your performance in this mock test is Q48, which is **1 points** lower than your target quantitative score of Q49.

Verbal Score

V44

44 +2

Your estimated verbal score per your performance in this mock test is V44, which is **2 points** lower than your target verbal score of V46.

5. **CURRENT SCORE IS HIGHER THAN TARGET SCORE**

Quant

Current 48   Target 42

Verbal

Current 44   Target 39

Submit and Refresh

Total Score

660

660 −55

Your estimated GMAT score per your performance in this mock test is 660, which is **55 points** higher than your target GMAT score of 605.

Quant Score

Q48

48 −6

Your estimated quantitative score per your performance in this mock test is Q48, which is **6 points** higher than your target quantitative score of Q42.

Verbal Score

V44

44 −5

Your estimated verbal score per your performance in this mock test is V44, which is **5 points** higher than your target verbal score of V39.

Here in above examples, the score difference is **visible with negative values**.

6. **CURRENT SCORE IS LESS THAN TARGET SCORE**

Anumeha Chakravarty

Quant

Current 18   Target 45

Verbal

Current 11   Target 46

Submit and Refresh

Total Score

345

345   +310

Your estimated GMAT score per your performance in this mock test is 345, which is **310 points** lower than your target GMAT score of 655.

Quant Score

Q18

18   +27

Your estimated quantitative score per your performance in this mock test is Q18, which is **27 points** lower than your target quantitative score of Q45.

Verbal Score

V11

11   +35

Your estimated verbal score per your performance in this mock test is V11, which is **35 points** lower than your target verbal score of V46.

---END---

Anumeha Chakravarty