# WEB DEVELOPER ASSESSMENT TASK - 5

# Cricket Game Design with Using OOPs in TypeScript

### TASK: CRICKET GAME USING BOOTSTRAP UI

Design a cricket game has two teams. Each team has a set of 10 players where each player has six balls.

### TASK DETAILS:

# 1. What is a cricket game?

**Cricket** is a bat-and-ball game played between two teams of eleven players on a field at the center of which is a 20-meter (22-yard) pitch with a wicket at each end, each comprising two bails balanced on three stumps.

# 2. How do I design a cricket game?

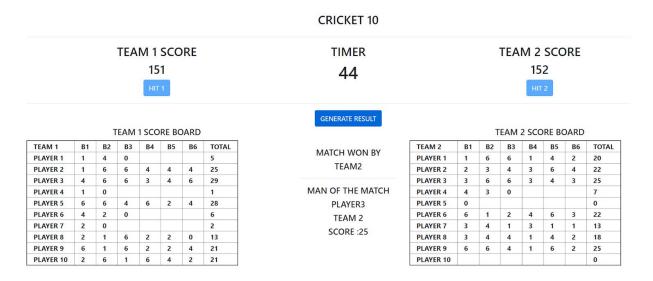
- Construct a two set of teams containing 10 players. Each player has to play 6 balls, where the balls are random whole numbers. If a player gets **zero** he's out of the game and the change goes to the next player of the same team.
- All the ten players of **TEAM** should get a chance to play the game.
- Each team will have an allotted time of 60 seconds.
- If a **TEAM** has completed its turn and the hit button of the corresponding team has to be disabled. And the next team gets to play.
- If a **TEAM** hasn't completed their turn on-time of 60 seconds & timer runs out then the hit button of the corresponding team has to be disabled. And the next team gets to play.
- While tapping on the HIT button of a **TEAM** total score has to be displayed near to the team name.
- Here is an example design of the cricket game.

#### **CRICKET 10**

TEAM 1 SCORE								TIMER			<b>TEAM 2 SCORE</b>						
O HIT 1								60	O HIT 2								
TEAM 1 SCORE BOARD								GENERATE RESULT	TEAM 2 SCORE BOARD								
TEAM 1	B1	B2	В3	B4	B5	B6	TOTAL	MATCH WON BY	TEAM 2	B1	B2	В3	B4	B5	B6	TOTAL	
PLAYER 1									PLAYER 1								
PLAYER 2								MAN OF THE MATCH	PLAYER 2								
PLAYER 3									PLAYER 3								
PLAYER 4									PLAYER 4								
PLAYER 5									PLAYER 5								
PLAYER 6									PLAYER 6								
PLAYER 7									PLAYER 7								
PLAYER 8									PLAYER 8								
PLAYER 9									PLAYER 9								
PLAYER 10									PLAYER 10								

## 3. How do I process the output?

- After the completion of both TEAM turns, results have to be generated and displayed in a separate tab when GENERATE RESULT button is tapped to display each team player's total scores, match won by which team and man of the match from which team, as well as the name of the player and score, acquired.
- Here's an example design of the results.



# 4. Any specification on the cricket game design?

Preferred UI framework: Bootstrap

You're supposed to use only TypeScript using OOPs.

### **Requirements:**

■ All HTML body elements should be written with typescript only.

- UI should be responsive.
- Use fonts if it's required in the design.
- Use icons if it's required in the design.
- This is a front-end task

## 5. How do I submit my work?

#### Preferred:

- Zip all your work files and upload them to the Assessment-5 folder that is created for you inside your folder in Google drive.
- As well as upload a separate text file containing both Github and Netlify URL's to the same folder of your google drive.
- Host your webpage in Netlify (<a href="https://www.netlify.com">https://www.netlify.com</a>) and add push your work files to Github as well

#### Bonus:

- 1. In TypeScript Usages of **HTMLElement** or **HTMLInputElement** for creating HTML tags will be awarded extra marks.
- 2. Passing values of one HTML page to another HTML will be awarded extra marks

#### 6. What is the deadline for the task?

You will be given 15-05-2020(Friday) 2.00 PM to 18-05-2020(Monday) at 10.00 AM to complete the task. If you have any challenges with finding time, please let us know.

### 7. Any basic hints to solve?

- Check how to pass the values of one HTML page to another.
- https://www.typescriptlang.org/
- https://www.javascripture.com/HTMLInputElement
- https://developer.mozilla.org/en-US/docs/Web/API/HTMLInputElement
- <a href="https://microsoft.github.io/PowerBI-JavaScript/interfaces/\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typescript\_lib\_lib\_dom\_d\_.htmlelement.html">https://microsoft.github.io/PowerBI-JavaScript/interfaces/\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules\_typedoc\_node\_modules
- <a href="https://getbootstrap.com/docs/4.4/getting-started/introduction/">https://getbootstrap.com/docs/4.4/getting-started/introduction/</a>

#### 8. Terms and Conditions?

- You agree to not share this confidential document with anyone.
- You agree to open-source your code (it may even look good on your profile!). Do not mention our company's name anywhere in the code.
- We will never use your source code under any circumstances for any commercial purposes; this is just a basic assessment task.

**NOTE:** Any violation of Terms and conditions is strictly prohibited. You are bound to adhere to it.