Test for MEAN/MERN/LAMP Stack Developers – Dare2Compete

Problem Description:

1. There are 80 seats in a coach of a train with only 7 seats in a row and last row of only 3 seats. For simplicity, there is only one coach in this train.
2. One person can reserve up to 7 seats at a time.
3. If person is reserving seats, the priority will be to book them in one row.
4. If seats are not available in one row, then the booking should be done in such a way that the nearby seats are booked.
5. User can book as many tickets as s/he wants until the coach is full.
6. You don't have to create login functionality for this application.

How should it function?

1. Input required will only be the required number of seats. **Example**: 2 or 4 or 6 or 1 etc.
2. Output should be seats numbers that have been booked for the user along with the display of all the seats and their availability status through color or number or anything else that you may feel fit.

What all you need to submit?

1. You need to write code (functions) as per the conditions and functionality mentioned above.
2. You need to submit the database structure you've created as per your code.
3. You need to host it on any of the free/paid platform so that you can provide as a working web URL for this problem.
4. You need to send us the code a zip file for us to look at your code and evaluate the same. You can also send us GIT link for the same.
5. Please ensure you create APIs to connect and transfer data to the frontend.
6. Please ensure you use a database to store the data of the seats or any other relevant data as per your logic.
7. Please assume that there are some seats already booked in that coach. So, your code should be able to find the seats available and then book them.

You can do your assignment on the below-mentioned link - https://stackblitz.com/edit/angular-6l4btw

Please note:

- You can use using any technology stacks – MEAN, MERN or LAMP
- You can take appropriate assumptions, if any, and state them on top of the submission sheet.
- Write a good functional and optimum code.
- Try to use less variables.
- Please write comments so that evaluator can clearly understand your code.
- In case of any queries, feel free to contact at yashita@dare2compete.com