

A  
PROJECT REPORT  
ON  
“TEST CASE CHECKER”



**Submitted to:**

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Aim & Objective: The project is for online test case checking.

### Introduction:

Here basically we provide you with the best of kind testing environment so that you can have good understanding about the coding questions on well known Sites.

Your input test cases for particular Coding Question run on sophisticated algorithms and give you the correct output and time taken for that Question.

It provides you to test your own test cases on original code and get the correct output for your test case which would help you for better understanding of questions on competitive sites and improve your skills.

### Project Group and their Work:

1. **Yash Mittal** (141307) as the Full Stack Web Developer. Design the idea with full PHP coding and MySQL Database. Full frontend using Bootstrap 4 and other features.

## Languages:

- HTML
- CSS
- Javascript
- Bootstrap 4
- PHP 7
- MySQL
- XML

## Functional & Non-Functional Requirements:

### Functional:-

1. Each coding site displayed on website should contain the specified questions related to that particular site.
2. Simplified user interface.
3. Test case inputs should be saved for future references.
4. Most famous sites must be available.
5. Site must be updates with new questions.

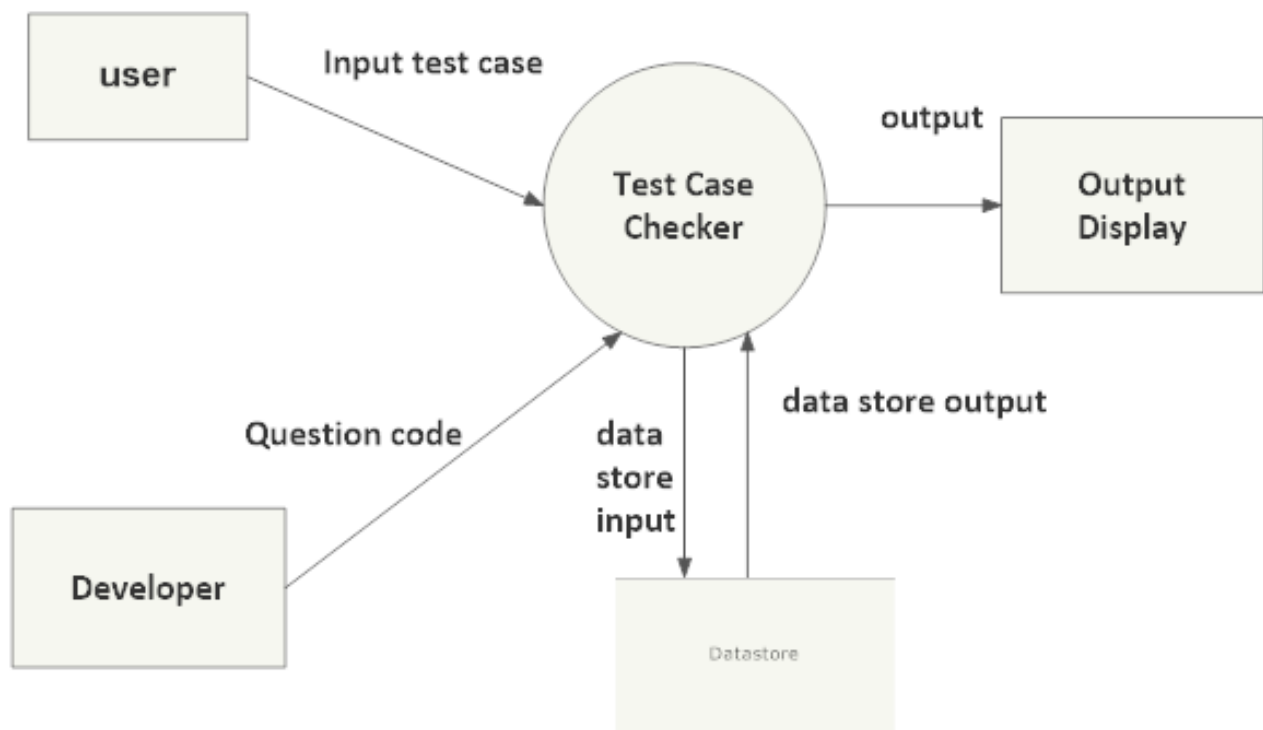
### Non-Functional:-

1. Site must be fast and high performance.
2. Output should be correct.
3. Every property must be functional.
4. Database must be safe and secure.
5. Code for questions must inaccessible.

## Hardware & Software Requirements:

1. Laptop, Computer or even Smartphone to access the site and features.
2. Windows XP or above.
3. Support of Bootstrap, PHP7, Mysql in browser.
4. Recent web browser like Chrome, Mozilla FireFox, Microsoft Edge etc.

## Data Flow Diagram:



## Applications of Project:

- Used for online test case checking, helps in improving coding skills.
- Better understanding of competitive competitions.
- Learn to make better test cases for programming faster and easier which help to shape your testing and debugging skills.

## Technicalities:

1. HTML5 and CSS3 used to make attractive site.
2. Bootstrap 4 used to make site work on all devices and all screen size.
3. Best sites with all questions available for wider use.
4. PHP 7 used with new features for good performance and security.
5. Mysqli used instead of Mysql in PHP which supports latest and fast Mysql 5 and great security than previous versions.
6. Running time of Test cases shown for further help in programming.
7. Compiled .exe file available on server to make it impossible for hackers to get back original code from question file.
8. “Out of Ideas?”, Try available test cases from other users saved by us for you.

## Future Improvements:

- Better UI/UX design.
- Use various frameworks like django, nodejs, etc.
- Better SQL server to process large number of query at the same time.
- A few changes in lines of code can convert the Input Output code to coding page with support of writing code and input and get output. Therefore in future we can convert the same flow of website to a live Competitive Coding site with all Functionalities.

## References:

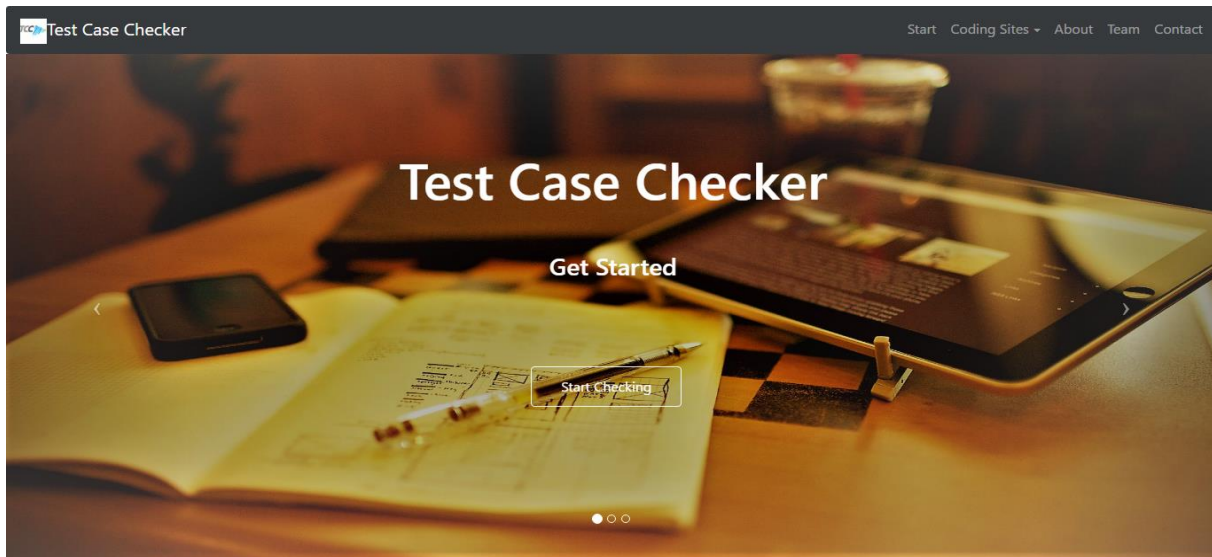
### Online:

1. [www.v4-alpha.getbootstrap.com](http://www.v4-alpha.getbootstrap.com)
2. [www.w3schools.com](http://www.w3schools.com)
3. [www.php5-tutorial.com](http://www.php5-tutorial.com)
4. [www.codeacademy.com](http://www.codeacademy.com)
5. [www.udemy.com](http://www.udemy.com)
6. [www.stackoverflow.com](http://www.stackoverflow.com)
7. [www.youtube.com](http://www.youtube.com)

### Other:

- Complete Full Stack Web Developer Course 2.0
- Google Books.

## Test Case Checker (Homepage):-



## Our Idea

Here basically we provide you with the best of kind testing environment so that you can have good understanding about the coding questions need and Code the best. Your input test cases for particular Coding Question run on sophisticated algorithms with the provided time limit and gives you the perfect output for that Question.



## OUR TEAM

Meet the team - our office rats:



**Yash Mittal**

Email: mymittal777@gmail.com



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## Choose Site (page 2):-

 Test Case Checker

Home Coding Sites Contact

Choose Your **Coding Site**

  
HackerRank







  
CODEFORCES

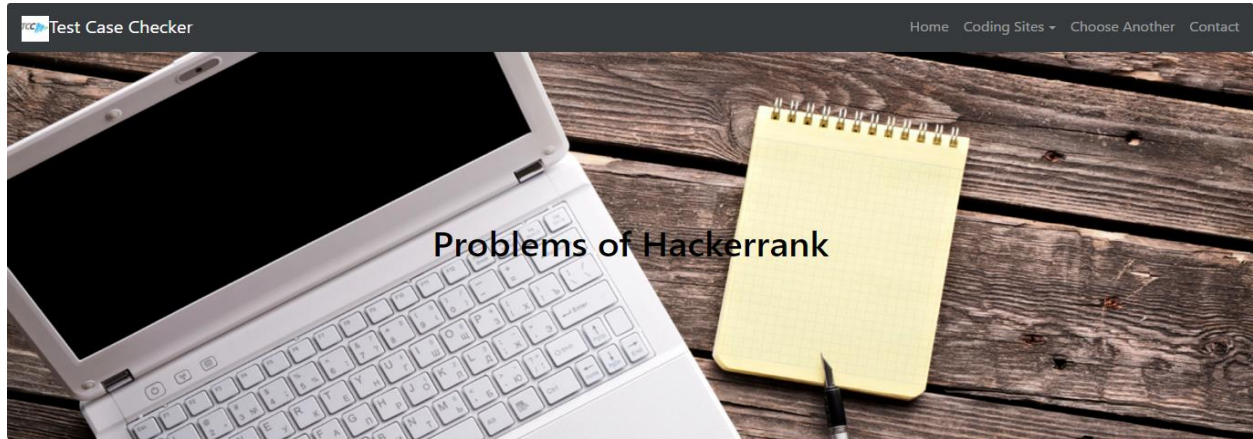
  
topcoder™



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## List of Problems (page 3):-



7 - Copy (2) - Copy	7 - Copy (2)	7 - Copy (3) - Copy	7 - Copy (3)
7 - Copy (4) - Copy	7 - Copy (4)	7 - Copy (5)	7 - Copy - Copy
7 - Copy	7	add - Copy (2) - Copy	add - Copy (2)
add - Copy (3) - Copy	add - Copy (3)	add - Copy (4) - Copy	add - Copy (4)
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test - Copy (4) - Copy	test - Copy (4)	test - Copy (5)	test - Copy - Copy
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test2 - Copy (3) - Copy	test2 - Copy (3)	test2 - Copy (4) - Copy	test2 - Copy (4)
test2 - Copy (5)	test2 - Copy - Copy	test2 - Copy	test2

## Input/Output (page 4):-

Test Case Checker

Home Coding Sites Contact

Try available Test Cases

Get Output

Input:

Output:

hello  
hello  
hello

Success!

Time Taken:- 0.19371604919434 seconds.

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## Try Available Cases (Database Query):-

Server: 127.0.0.1 » Database: tcc\_db

Structure SQL Search Query Export Import Operations Privileges Routines

Table	Action	Rows	Type	Collation	Size	Overhead
codechef	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
codeforces	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
hackerearth	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
hackerrank	Browse  Structure  Search  Insert  Empty  Drop	17	InnoDB	latin1_swedish_ci	16 KiB	-
spoj	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
topcoder	Browse  Structure  Search  Insert  Empty  Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
6 tables	Sum	17	InnoDB	latin1_swedish_ci	96 KiB	0 B

☐ Check all With selected:

Print view Data dictionary

Create table

Name: Number of columns: 4

Console