# CODIFICA



# Made by:

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**Category:** Web Application

**PURPOSE** 

The purpose of developing "Codifica" is to provide editorials to the programmers stepping into the world of Competitive Programming and help them improve on their honed skills.

SCOPE

It will integrate the benefits of a Coding Environment with the convenience of getting different approaches for the same problem which can help the programmers in all the possible ways. It provides a means of collaborative learning for them and also creates a new coding community to discuss their doubts and come up with various solutions to it.

INTRODUCTION

Introduction contains the following sub categories:

**Existing System** 

Presently editorials are only released by the official contests' writers and testers. This system involves the following disadvantages:

• It provides limited resources and is less beginner friendly • Understanding the most efficient approach directly is not easy • It takes a lot of time to grasp the logic behind

the solution • The existing websites provides editorials for only the contests hosted on

their websites

**Proposed System** 

Codifica is the one that aims to give the programmer an experience to a better coding community that could help them in every possible way. It is advantageous for both the learner

and the ones who are writing the editorials.

The system after careful analysis has been identified to be presented with the following

modules:

• Editorial Writing Portal: Coders who have solved the problem can provide their code

and its explanation.

• Editorials : Coders who were unable to solve the problem during the contest can refer

the solutions on Codifica to understand its solution easily.

• Authentication : Verifying the writer's credibility using various APIs to see that if they

have really solved the problem before writing it. • Filtering: Editorials can be filtered

according to specific contests and problems.

ADVANTAGES FOR LEARNERS

Advantages for the programmers are explained below

• Time Saving : One place for all kind of help

Building connections

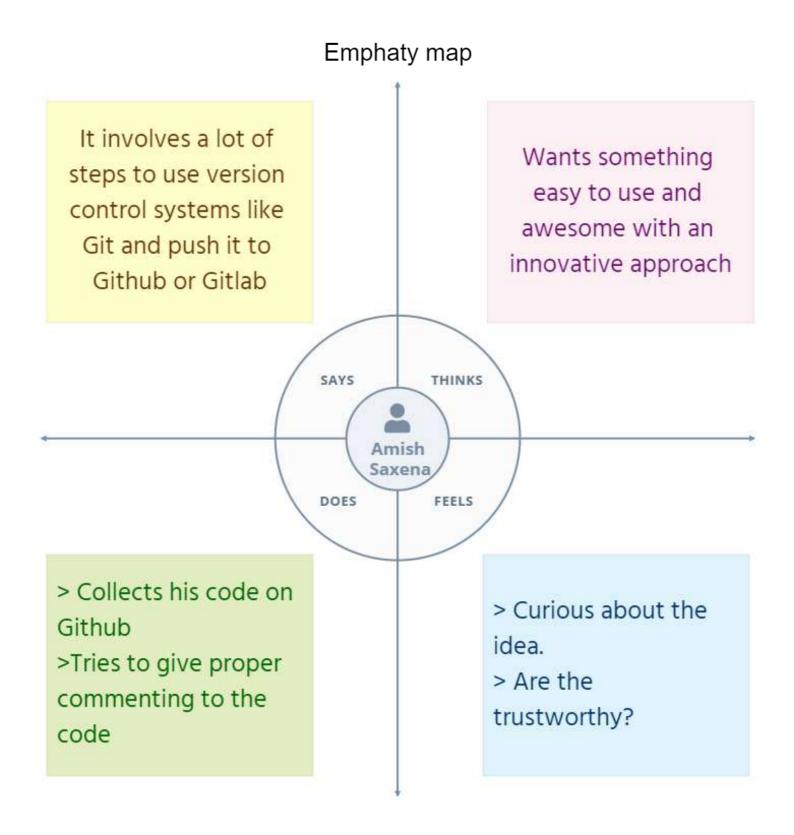
Beginner friendly environment

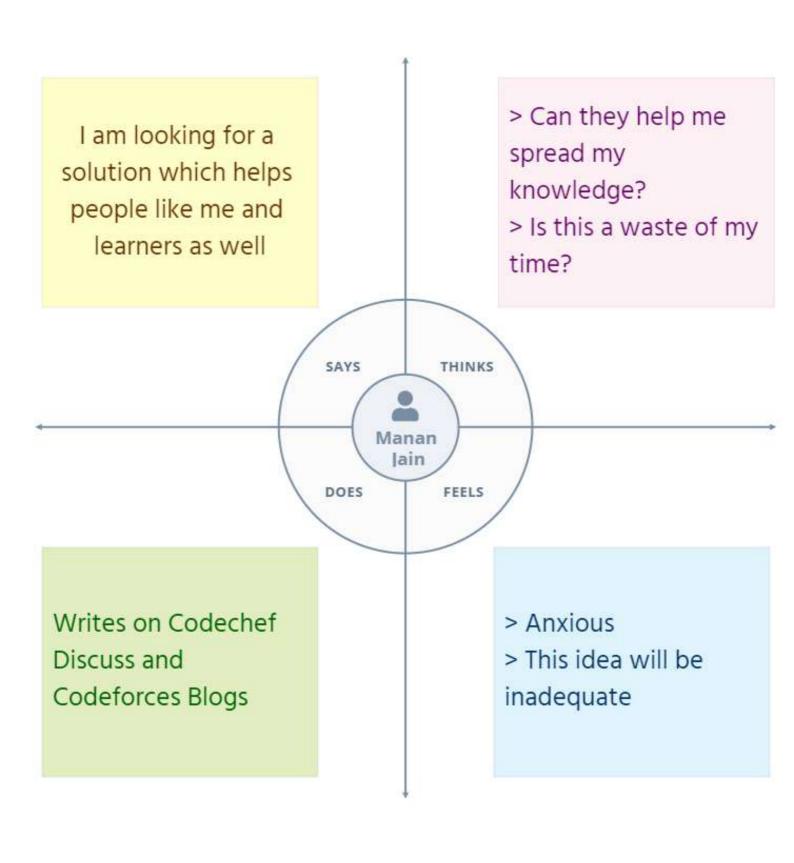
To learn new methods and algorithms

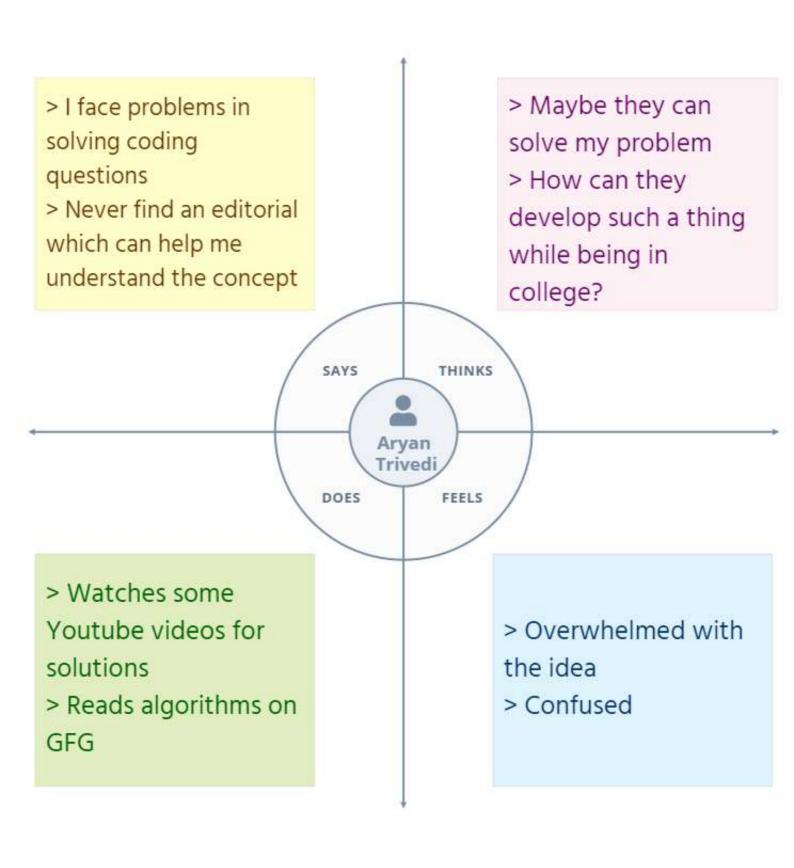
ADVANTAGES FOR WRITERS

Advantages for the writers are explained below

# PHASE 1-Emphatize







## User Persona



About

AGE 21
LOCATION Pallakad

User persona

## **Amish Saxena**

Innovative, Curious III Year,Undergrad

### BIO

He's an app developer and competitive coder who loves to keep track of his coding stats. He believes that sharing your knowledge is one of the most profitable deal.

### \* GOALS

He wants to become a successful Entrepreneur in IT Industry

### \* FRUSTRATIONS

Due to lack of ease to approach system on platform to maintain code and algorithm for future.



User persona

# **Aaryan Trivedi**

Hardworking, punctual

Fresher, IIT Roorkee

### BIO

He is a hardworking student, cracked JEE Mains and Advanced and grabbed a place in prestigious IIT, He is a CSE student, active on various coding platforms. He believes that consistecy is the key to success

A ......

A(c)= 18

LOCATION Bhopal

### GOALS

want to achieve a job in FAANG company

### \* FRUSTRATIONS

cannot find proper editorial after contest ended. Since editorial provided are hard to imlply for a beginner



User persona

## Manan Jain

Determined,Empathetic Final Year B.Tech Student ,MANIT Bhopal

#### BIC

He loves to dissiminate knowledge . He's a high-rated coder on coding platforms like codeforces , codechef. He believes sharing your knowledge , enhances your wisdom

About

AGE 22
LOCATION Indore

### \* GOALS

Being a successful social media influencer. He perceives to share knowledge on other platforms too.

### \*FRUSTRATIONS

Irritated due to lack of platforms where we can share begineer friendly editorials; understood in easy way.

# PHASE 2-Define

# Point Of View (POV)

User	Need	Insight
People having keen interest in Competitive Programming	1. Wants a platform which provides proper beginner friendly editorials once the official contest gets over.  2. A platform where one can share their programming knowledge and beginner friendly editorials  3. Easy to approach platform to maintain their codes and algorithms for future reference	1. The user wants to have multiple references for a question in an easy to understand language  2. The user desires to share his programming knowledge in an easy and efficient way  3. The user wants an alternative to version control systems for maintaining codes and algorithm

## **Problem Statement**

User 1

User 2

User 3

Lack of a platform where one can find the Editorials of recently concluded Coding Competitions

Lack of a platform where one can write Editorials and express their knowledge Lack of a platform where one can save their Coding Data for future references

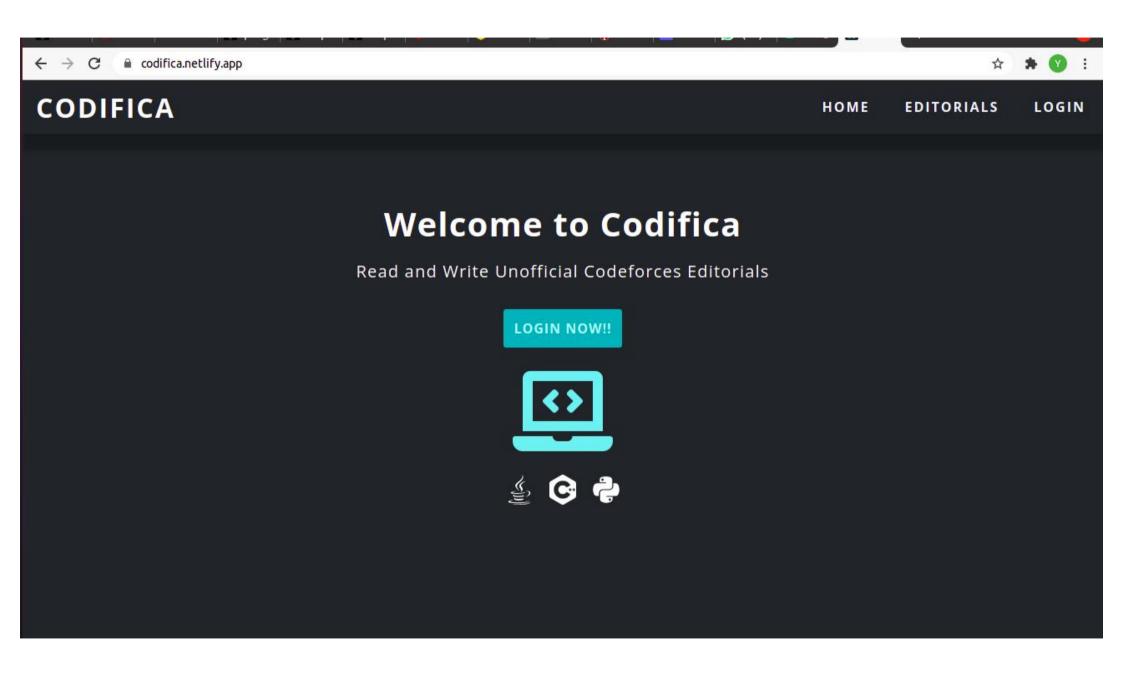
# Final Problem Statement

Lack of a platform to read and write Editorials and to save algorithms and approaches for future references.

# PHASE 3-Ideation

		1													
Vachi Verma	Group 4														
Yashi Verma 0801CS191104															
Problem Statements	Ideas	Teammate 1 Teammate 2	Teammate 3	Teammate 4	Average		Client 1	Client 2	Client 3						
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	their editorials and enlighten others  20can create a platform like some social media platform where one can	S	4 5	5	4.76			5		Highest voted					
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	someone can comment aswell in their knowledge 3)Video channel where one can explain about the problems in easy language	4	5 3	4	4 35			4	1						
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	I)can create a site similar to instagram/whatsapp where experts are enrolled and one can ask one to one for clear and easy understanding														
49 oak of platform where one con find the Biliterials of recently constraint	one for clear and easy understanding 2)can create a beginner friendly platform where one can find solutions or	4	5 3	1	1			3	,						
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	I)an app similar to google drive for storing data for future references	4	3 3	2	3										
3)Lack of platform where one can save their coding data for future references	2)creation of platform like social media platform where one can see their time to time activities and keep track of it.	3	3 3	3	3			2							
,,	3)application where one can push all their data	4	4 4	4	4		4		4						
GROUP-4															
GROUP-4 Sanidhya Mahajan 0801CS191080															
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	5. Instragram pages					3	3	2	3	2.75				2 3	
	I will build a platform like codeforces, codechef where the will get edito     I will create a discord server where one can post his/her solutions	rails of contest held previously or	these platform.			5 3	5	4 5	2 4	4		:		3 3	
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	4. Platform where there can be one to one live sessions					3	3	5	3	3.5		:		2 3	
	Will have an portfolio page of users that can be used to save their data a     Lucill create on decision application which will be basing an appropriate or a second or sec	nd algorithms				4 3	4	5	4 5	4.25 3.75				5 5	Highest voted
Lack of platform where one can save their coding data for future references	I will create an desktop application which will be having an version co     Cloud Application to save data which can be accessed everywhere.	ntroi system.				4	4	4	3	3.75				3 4	
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	GROUP-4 Priyanka Jain 0801CS191064														
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# PHASE 4-Prototype



CODIFICA HOME EDITORIALS WRITE MY EDITORIALS LOGOUT

# Welcome yashi\_002

Read and Write Unofficial Codeforces Editorials

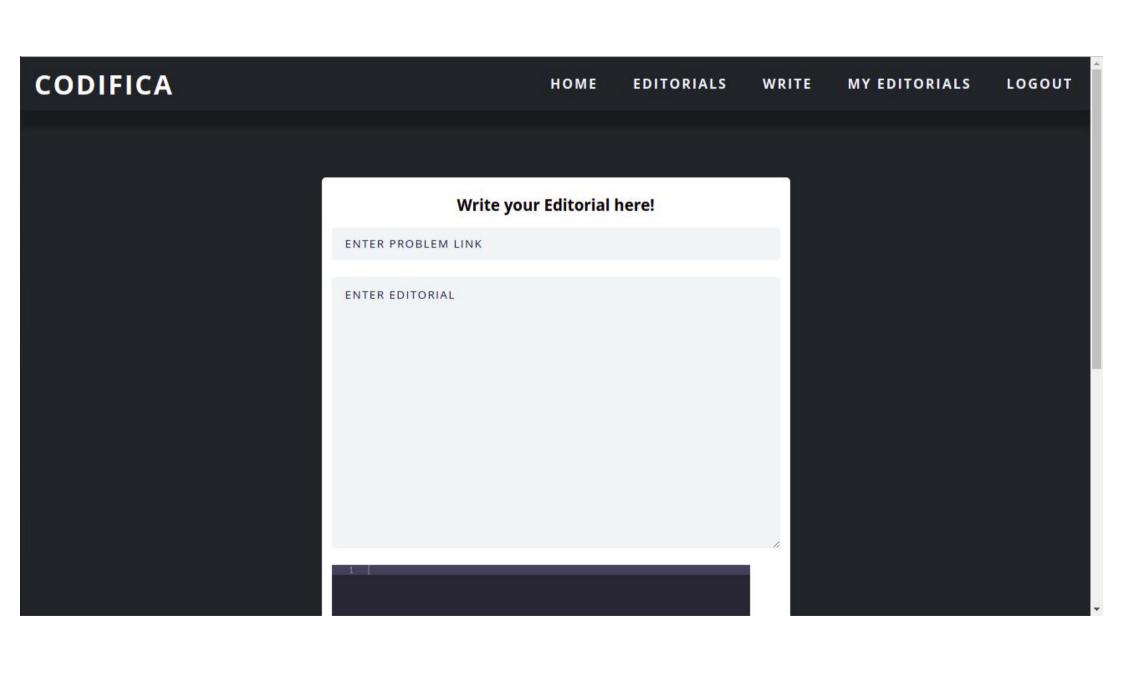
WRITE A EDITORIAL!











## **EDITORIALS**

Anton and currency you all know

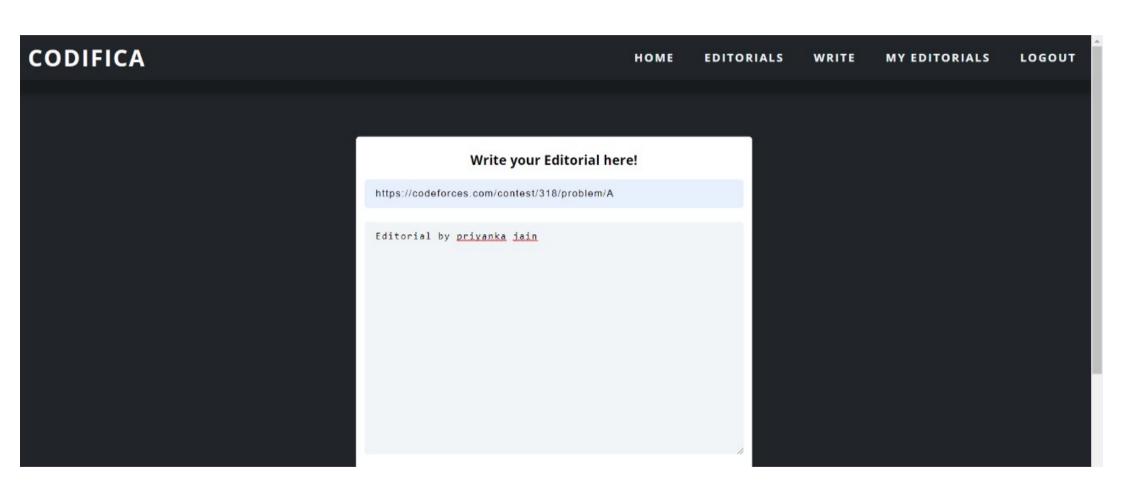
Contest Id: 508

Greedy Math Strings

Rating: 1300

Language: Java 11

1 import java.math.8igInteger; juport java.util.; juport java



```
import java.util.*;
public class even_odd

public static void main(String[] args)

{
    Scanner scan=new Scanner(System.in);
    Long n=scan.nextLong();
    Long index=0;
    if(n%2=-1)

    {
        index=n/2+1;
    }

    else
    index=n/2;
    }

if(k<=index)
    System.out.println(2*k-1);
    else
    System.out.println(2*(k-index));
    }
}</pre>
```

ADD EDITORIAL

## **YOUR EDITORIALS**

Чет и нечет

Contest Id: 318

Math

Rating: 900

Language : Java 11

```
import java.util.*;
public class even_odd
}

public static void main(String[] args)

{

public static void main(String[] args)

{

Scanner scan-new Scanner(System.in);

long n=scan.nextLong();

long k=scan.nextLong();

long index=0;

if(n%2--1)

if(n%2--1)

}

if(n%2--1)

else

index=n/2+1;

id

index=n/2+1;

id

index=n/2;

if(k<-index)

System.out.println(2*k-1);

else

System.out.println(2*(k-index));

}

if(x<-index)

System.out.println(2*(k-index));
}

if(x<-index)

System.out.println(2*(k-index));
}
</pre>
```

### **YOUR EDITORIALS**

Чет и нечет Contest Id : 318

Math

Rating: 900

Language: Java 11

Editorial by priyanka jain

EDI

DELET

# Welcome priyankajainmodi

Read and Write Unofficial Codeforces Editorials

WRITE A EDITORIAL!









## **Welcome to Codifica**

Read and Write Unofficial Codeforces Editorials







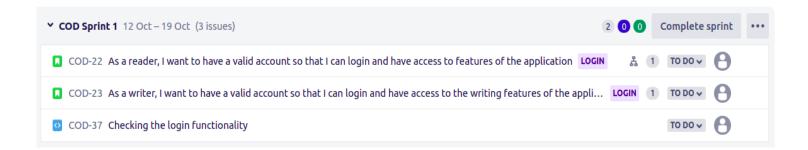


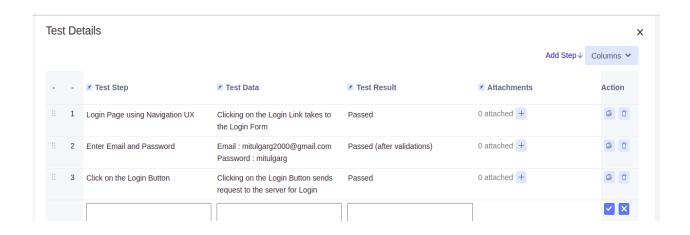


# PHASE 5-Testing

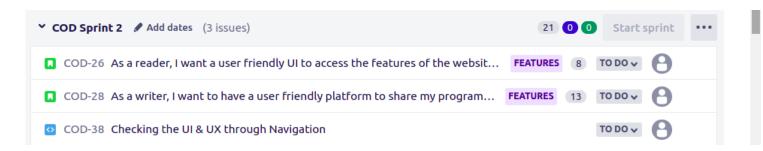
### **Sprint and Test Cases**

### Sprint1





### **Sprint 2**



-	★ Test Step	★ Test Data	▼ Test Result	* Attachments
1	Click on Login Link	User must be taken to the Login Form	Passed	0 attached +
2	Click on Editorials Link	User must be taken to the Editorials Page	Passed	0 attached +
3	Click on the Write Editorial Link	User must be able to write the Editorial	Passed	0 attached +
4	Click on the My Editorials Link	User must be shown his written editorials	Passed	0 attached +
5	Click on the Logout button	User must be logged out of the application	Passed	0 attached +

## **Sprint 3**

~



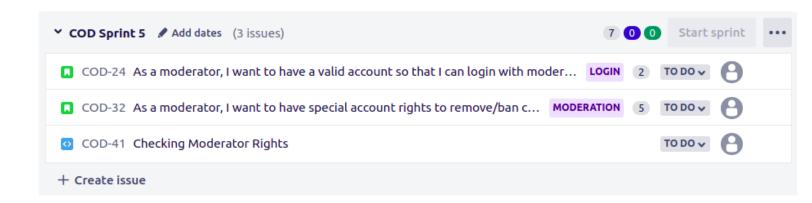
-	▼ Test Step	▼ Test Data	▼ Test Result	<b>★</b> Attachments	Action
1	Login	Enter valid credentials in the Login Form	Passed	0 attached +	<b>a a</b>
2	Go to Write Page	Redirected to Write Form	Passed	0 attached +	□ Û
3	Write Code in the provided Editor	Syntax Highlighting Support for all Languages	Passed	0 attached +	<b>a b</b>
		1	1	٦	

### **Sprint 4**



		★ Test Step	★ Test Data	★ Test Result	<b>★</b> Attachments
::	1	Login	Enter valid credentials	Passed	0 attached +
::	2	Go to My Editorials	Users must be able to see their editorials and to edit and delete them	Passed	0 attached +
::	3	Go to Editorials	Users must be able to see editorials added by other users	Passed	0 attached +

### **Sprint 5**





## Implemetation

Link: https://codifica.netlify.app/