





Sailesh Rajanala

Computer Science

Lead, UI & UX



Project

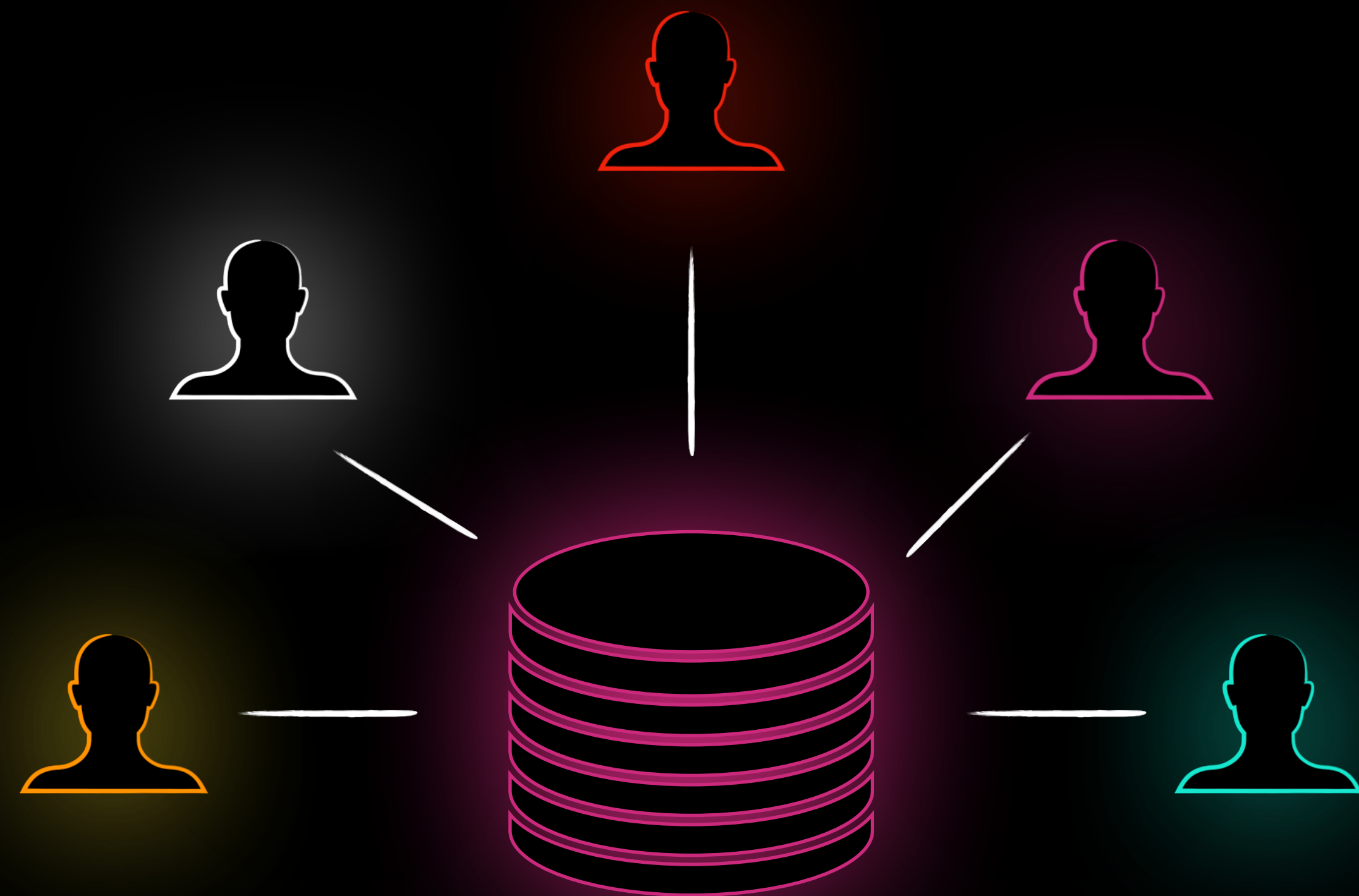


Prototype



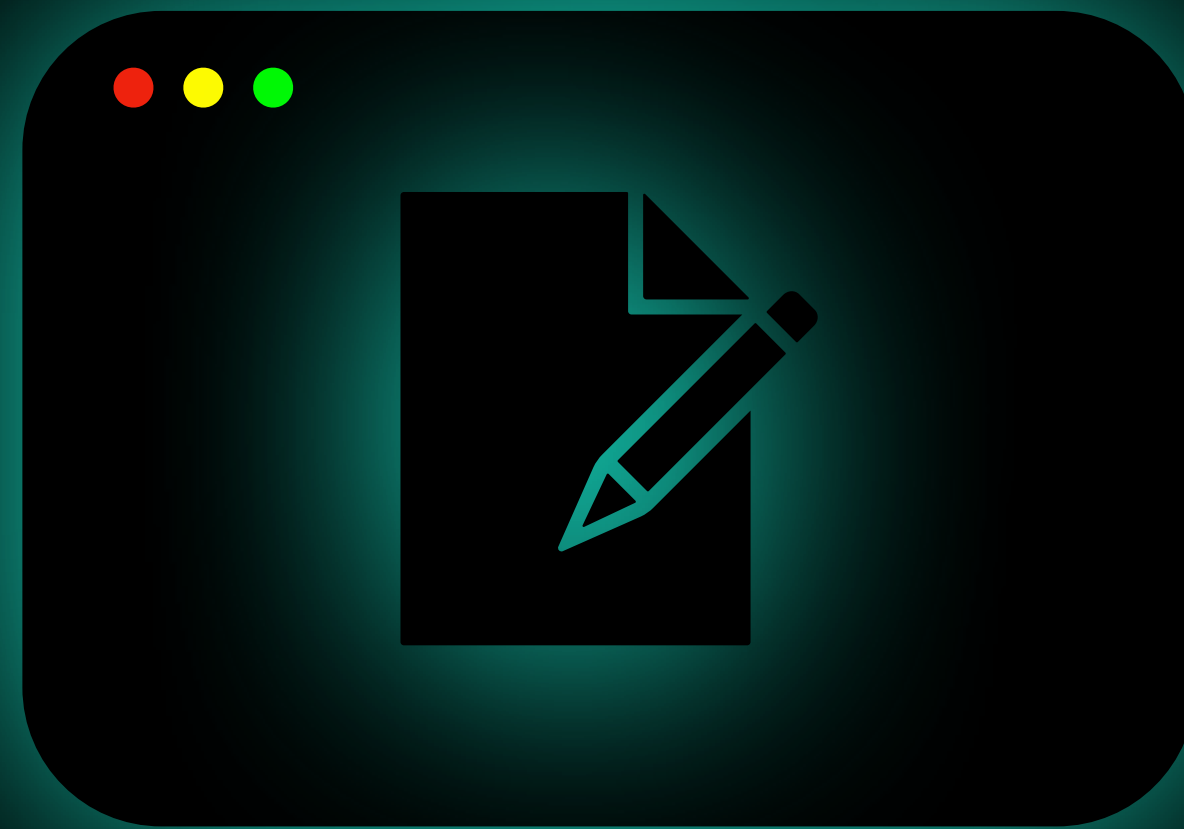
Project

- ✿ *Unified Database*
- ✿ *Stores information about Industry Partners*
- ✿ *Helps Senior Design Instructors to gather Sponsored Projects*



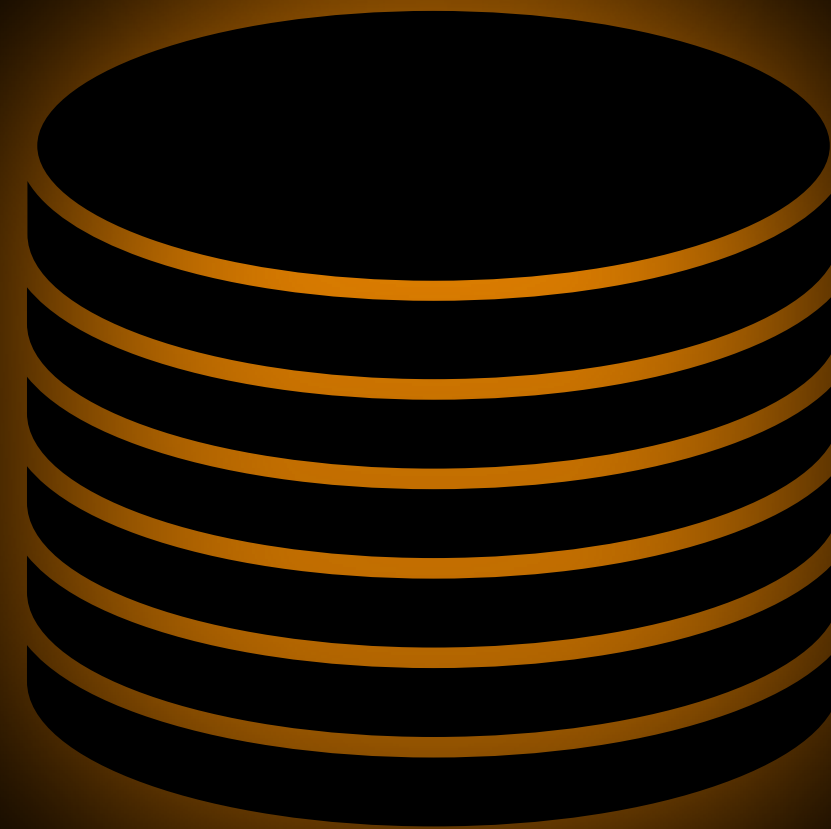
Industry Partner Database

1



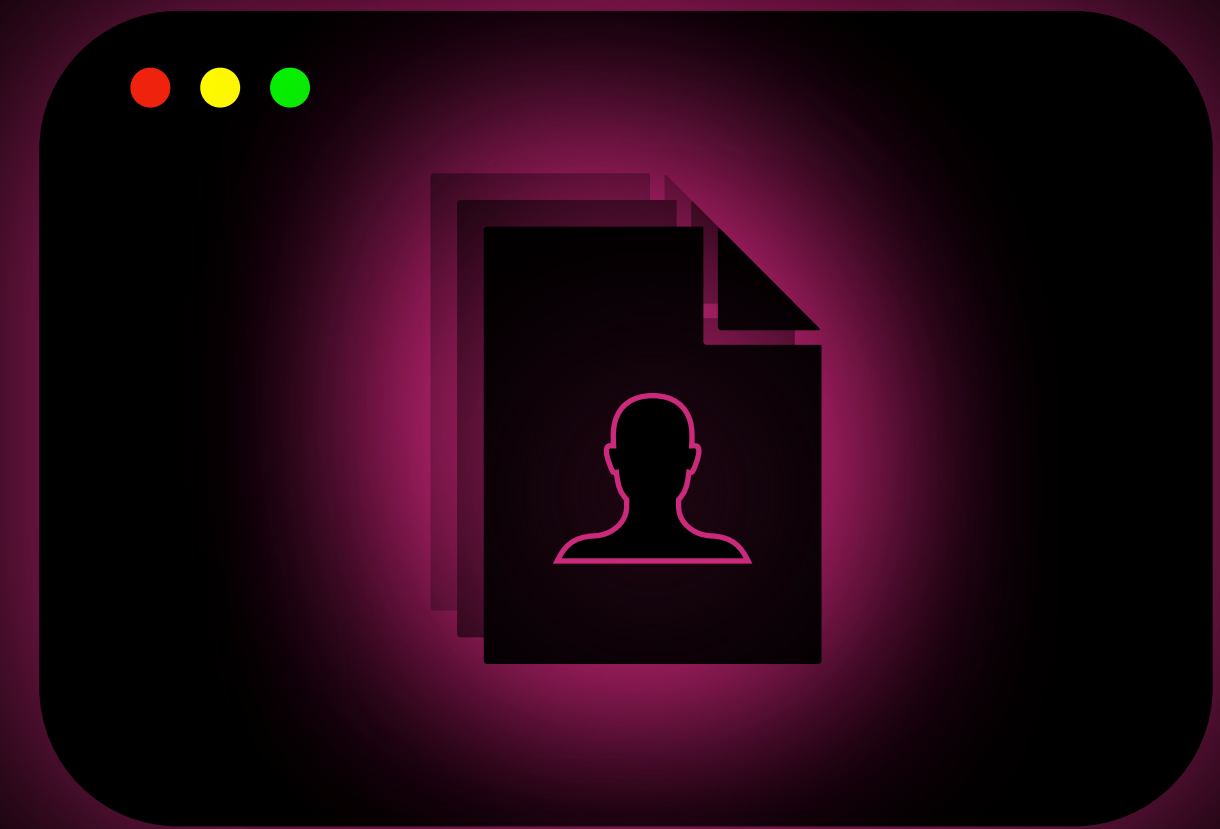
Webpage - Web Form
(Input for Database)

2



Database
Data Table

3



Webpage - Contacts List
(Output from Database)

Industry Partner

Prefix

Mr

First Name

Sailesh

Last Name

Rajanala

Email

saileshrajanala@email.com

Phone Number

7744777444

College

Sailesh Rajanala Academy

Current Status

Employed

LinkedIn

srajanala777

Workplace

Sailesh Rajanala Industries

Position Title

CEO

Notes

I am very much interested in getting involved with future innovators, inventors, and achievers. Therefore, I would love to get involved with on campus activities and would also like to provide students valuable work and innovation experience. I can't wait to get started. Thank you.

Submit

Thank you for your submission.

Here's your Summary.

Prefix	Mr
First_Name	Sailesh
Last_Name	Rajanala
Email	saileshrajanala@email.com
Phone_Number	7744777444
College	Sailesh Rajanala Academy
Current_Status	Employed
LinkedIn	srajanala777
Workplace	Sailesh Rajanala Industries
Title	CEO

Browse															Structure															SQL															Search															Insert															Export															Import															Operations															Triggers																																																																																																																																																																																																																																	
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<table><thead><tr><th></th><th></th><th></th><th>Entry_ID</th><th>Prefix</th><th>First_Name</th><th>Last_Name</th><th>Email</th><th>Phone_Number</th><th>College</th><th>Current_Statu</th><th>LinkedIn</th><th>Workplace</th><th>Title</th><th>Notes</th><th>Timestamp</th></tr></thead><tbody><tr><td>☐</td><td></td><td>Edit</td><td></td><td>Copy</td><td></td><td>Delete</td><td>1258</td><td>Mr</td><td>Sailesh</td><td>Rajanala</td><td>saileshrajanala@email.com</td><td>7744777444</td><td>Sailesh Rajanala Academ</td><td>Employed</td><td>srajanala</td><td>Sailesh Rajanala Industries</td><td>CEO</td><td>I am very much interested in getting involved with</td><td>2020-11-12 03:35:24</td></tr><tr><td>☐</td><td></td><td>Edit</td><td></td><td>Copy</td><td></td><td>Delete</td><td>1257</td><td>Mr</td><td>Shock</td><td>Shocker</td><td>shock@shocker.com</td><td>1234567890</td><td>Shocker Universi</td><td>Employed</td><td>shock2sh</td><td>Shock Inc.</td><td>Chief Design Officer</td><td>Hello, I would like to get involved with your inst...</td><td>2020-11-12 02:35:11</td></tr><tr><td>☐</td><td></td><td>Edit</td><td></td><td>Copy</td><td></td><td>Delete</td><td>1256</td><td>Mr</td><td>GoodShocker</td><td>Shockerman</td><td>goodshocker@human.com</td><td>7773337777</td><td>Shocker Universi</td><td>Shocker</td><td>goshocks</td><td>ShockerNation</td><td>Senior Design Chief</td><td>I would love to be a part of the famous ShockerNat...</td><td>2020-11-12 01:37:07</td></tr><tr><td>☐</td><td></td><td>Edit</td><td></td><td>Copy</td><td></td><td>Delete</td><td></td><td></td><td></td><td></td><td></td><td>1231231231</td><td>City State Universi</td><td>Employed</td><td>sairajanala</td><td>WorkPlace</td><td>Manager</td><td>Greetings, I am looking forward to be involved in ...</td><td>2020-11-11 18:45:23</td></tr><tr><td>☐</td><td></td><td>Edit</td><td></td><td>Copy</td><td></td><td>Delete</td><td></td><td></td><td></td><td></td><td></td><td>1234567890</td><td>Sailesh Norweig High School</td><td>Employed</td><td>SaileshRi</td><td>Sailesh Constructions</td><td>CEO</td><td>Hi! 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phpMyAdmin



Database of Industry Contacts



MariaDB, InnoDB, MySQL

Today

Sailesh Rajanala

Sailesh Rajanala Indu... CEO

2020-11-12 00:43:43

Laura Vercetti

Shock Inc. Chief Design Officer

2020-11-12 00:43:20

Older

Sophia Johnson

Sophia Industries Manager

2020-11-10 18:54:22

Mr. Sailesh Rajanala

CEO

Sailesh Rajanala Industries

LinkedIn : srajanala777

Current Status : Employed

Notes

I am very much interested in getting involved with future innovators, inventors, and achievers. Therefore, I would love to get involved with on campus activities and would also like to provide students valuable

Notes

I am very much interested in getting involved with future innovators, inventors, and achievers. Therefore, I would love to get involved with on campus activities and would also like to provide students valuable work and innovation experience. I can't wait to get started. Thank you.

Email : sailshrajanala@email.com

Phone : 7744777444

Timestamp : 2020-11-12 00:43:43

Today

Sailesh Rajanala	Sailesh Rajanala Indu...	CEO	2020-11-11 22:55:47
Laura Vercetti	Shock Inc.	Chief Design Officer	2020-11-11 22:54:31

Older

Sophia Johnson	Sophia Industries	Manager	2020-11-10 18:54:22
----------------	-------------------	---------	---------------------



Priyanka Limbu

Computer Science

Time Keeper



Webform



Testing



Deliverables



Industry Partner

Prefix

First Name

Last Name

Email

eg. name@email.com

Phone Number

eg. 123-456-7890

College

eg. City State University

Current Status

eg. Employed

LinkedIn

eg. userName

Workplace

eg. Google

Position Title

eg. Manager

Notes

Submit



Test cases

Industry

✿ *Submitting an empty form*

Prefix

Select an item in the list

First Name

Last Name

Industry

✿ *Submitting a partially filled form*

Prefix

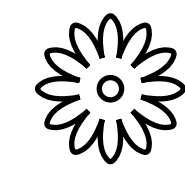
Mr

First Name

Fill out this field

Last Name

Indu



Invalid Name entries

Prefix

Mr



First Name

12323

Last Name

asd21323

Sorry, your First Name cannot be a number

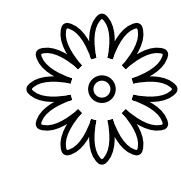
✿ Error Message for a bad first name

Prefix

Mr

First Name

real



Invalid Email Entry

Email

Enter an email address

sdiand

Phone Number

1232313123

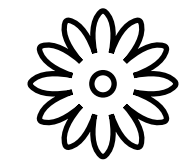
College

Prefix

Mr

First Name

real



Invalid Phone Number Entry

Email

valid@email.com

Phone Number

316903ads

College

Please enter valid phone number

✿ *Error for an Invalid Phone Number Entry*

College

eg. City State University

 Optional Entries

Current Status

eg. Employed

LinkedIn

eg. userName

Workplace

eg. Google

Position Title

eg. Manager

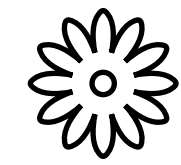
Workplace

eg. Google

Position Title

eg. Manager

Notes



Optional Entries

Submit

Thank you for your submission.

Here's your Summary.

Prefix	Mr
First_Name	real
Last_Name	name
Email	valid@email.com
Phone_Number	3169038888
College	
Current_Status	
LinkedIn	

Testing

Cross Browser Compatibility

-  Webform must work and look similarly across different browsers

Mobile Responsiveness

-  Webform should be optimized for smaller screens

Form Fields Validation

-  Strict Detection of Invalid Entries on client-side using Javascript

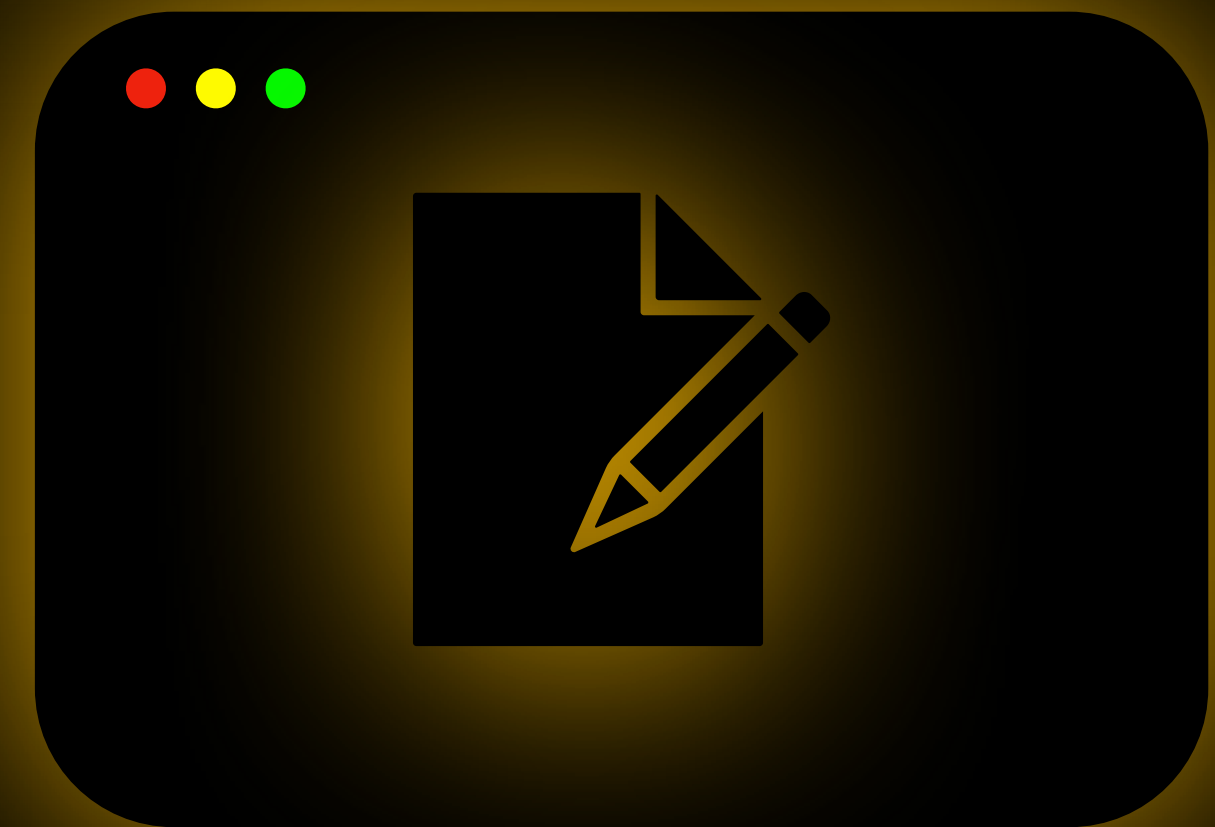
Deliverables

WebForm

-  The webpage that retrieves data from database is a major deliverable

Webpage for Form Submission

-  The webpage that summaries user's submission
-  The webpage that populates the Database





Subash
Acharya

Computer Engineering

Scribe, Backend



Backend Challenges



Testing



First Name

Last Name

Email

Phone Number

```
<html>
  <head>...</head>
  <body>
    <h1 class="mainTitle">...</h1>
    <div class="formDiv">
      <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="SVLLZ" data-myki-checked-cc="11">
        <div class="formSetion">...</div>
        <div class="formSetion">
          <div class="sideByside">
            <div class="normalBlock">
              <label for="email">Email</label>
              ...
              <input type="email" id="email" name="email" placeholder="eg. name@email.com" required> == $0
            </div>
            <div class="normalBlock">...</div>
          </div>
        </div>
      </form>
    </div>
  </body>
</html>
```

... form div.formSetion div.sideByside div.normalBlock input#email ..

Styles Computed Event Listeners DOM Breakpoints Properties >>

Filter :hov .cls +

```
element.style {
}

input {
  background-color: transparent;
  border: 1px solid black;
}

}

pouqeu: 1px solid black;
pouqeu: 1px solid black;
pouqeu: 1px solid black;
```


Mr

First Name

Subash

Last Name

Acharya

Email

subash@gmail

Phone Number

3168546597

```
<html>
  <head>...</head>
  <body>
    <h1 class="mainTitle">...</h1>
    <div class="formDiv">
      <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="SVLLZ" data-myki-checked-cc="11">
        <div class="formSetion">...</div>
        <div class="formSetion">
          <div class="sideByside">
            <div class="normalBlock">
              <label for="email">Email</label>
              <input type="email" id="email" name="email" placeholder="eg. name@email.com" required> == $0
            </div>
            <div class="normalBlock">...</div>
          </div>
        </div>
      </form>
    </div>
  </body>
</html>
```

... form div.formSetion div.sideByside div.normalBlock input#email ...

Styles Computed Event Listeners DOM Breakpoints Properties >>

Filter :hov .cls + []

```
element.style {
}

input {
  background-color: transparent;
  border: 1px solid black;
}

input {
  padding: 3%;
  border: 1px solid black;
}

input {
  padding: 3%;
  border: 1px solid black;
}
```

Mr

First Name

Subash

Last Name

Acharya

Email

subash@gmail.

Phone Number

3168546597

! '.' is used at a wrong position in 'gmail.'

```
<html>
  <head>...</head>
  <body>
    <h1 class="mainTitle">...</h1>
    <div class="formDiv">
      <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="SXTUL" data-myki-checked-cc="11">
        <div class="formSetion">...</div>
        <div class="formSetion">
          <div class="sideByside">
            <div class="normalBlock">
              <label for="email">Email</label>
              ...
              <input type="email" id="email" name="email"
                placeholder="eg. name@email.com" required> == $0
            </div>
            <div class="normalBlock">...</div>
          </div>
        </div>
      </form>
    </div>
  </body>
</html>
```

... form div.formSetion div.sideByside div.normalBlock input#email .

Styles Computed Event Listeners DOM Breakpoints Properties >>

Filter :hov .cls +

```
element.style {
}

input {
  background-color: transparent;
  border: 1px solid black;
}

}

pouqeu: 1px 201q 1px 201q;
pouqeu: 1px 201q 1px 201q;
pouqeu: 1px 201q 1px 201q;
```


Mr

First Name

Subash

Last Name

Acharya

Email

subash@gmail.

Phone Number

3168546597

```
<!DOCTYPE html>
<html>
  <head>...</head>
  <body>
    <h1 class="mainTitle">...</h1>
    <div class="formDiv">
      <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="SXTUL" data-myki-checked-cc="11">
        <div class="formSetion">...</div>
        <div class="formSetion">
          <div class="sideByside">
            <div class="normalBlock">
              <label for="email">Email</label>
              ...
              <input type="text" id="email" name="email"
                placeholder="eg. name@email.com" required> == $0
            </div>
            <div class="normalBlock">...</div>
          </div>
        </div>
      </form>
    </div>
  </body>
</html>
```

... form div.formSetion div.sideByside div.normalBlock input#email .

Styles Computed Event Listeners DOM Breakpoints Properties >>

Filter :hov .cls + <>

```
element.style {
}

input {
  background-color: transparent;
  border: 1px solid black;
}

}

pouqeu: > jbx 2017q pJACK?
pachk8uonug-cojou: ftau2bareuf?
tubnc {
}
```

style_dark.css:159

style_dark.css:128

What we do?

PHP sanitization and validation

Challenges

1) Information entered is wrong type :-

Example :-

First Name

Phone Number

Testing :-

```
if(is_numeric($first_name)){  
    echo "Sorry, your First Name cannot be a number </br>" ;  
    $checkValidity = false ;  
}
```

```
if(!is_int((int)$phone_number) || strlen($phone_number) != 10){  
    echo "Please enter valid phone number </br>" ;  
    $checkValidity = false ;  
}
```

2) Information entered is wrong format :-

Example :-

Email

Testing :-

```
}elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {  
    echo "Invalid email format </br>";  
    $checkValidity = false ;  
}
```


3) Information entered consists of special characters used by php

Example :-

Notes

This will confuse PHP'

Testing :-

```
$char = array("'");  
$replace = array("\'");
```

4) Information entered consists of special characters used by html

Example :-

Notes

This will confuse HTML

Result :-

This will confuse HTML

Testing :-

```
$char = array("<", ">");  
$replace = array("&lt;", "&gt;");
```

```
<table class="summaryTable">
```

```
<?php
```

```
if ($submission){  
    for ($i = 0; $i < count($tableColumns); $i++){  
        echo "<tr><td>" . $tableColumns[$i] . "  
            </td><td> $htmlFields1[$i]</td></tr>";  
    }  
}
```

```
?>
```


5) Black Field Is Submitted

Example :-



A screenshot of a web form. It features a label 'Last Name' above a text input field. The input field is empty and has a light blue border.

```
<h1 class="mainTitle">...</h1>
<div class="formDiv">
  <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="AVPJF" data-myki-checked-cc="11">
    <div class="formSetion">
      <label for="prefix">Prefix</label>
      <select id="prefix" name="prefix" required>...</select>
      <div class="sideByside">
        <div class="normalBlock">...</div>
        <div class="normalBlock">
          <label for="last_name">Last Name</label>
          <input type="text" id="last_name" name="last_name" required> == $0
        </div>
      </div>
    </form>
  </div>
</div>
```



A screenshot of a web form. It features a label 'Last Name' above a text input field. The input field is empty and has a light blue border.

```
<div class="formDiv">
  <form action="https://flaggy-idea.000webhostapp.com/submit.php" method="post" data-myki-form-1="AVPJF" data-myki-checked-cc="11">
    <div class="formSetion">
      <label for="prefix">Prefix</label>
      <select id="prefix" name="prefix" required>...</select>
      <div class="sideByside">
        <div class="normalBlock">...</div>
        <div class="normalBlock">
          <label for="last_name">Last Name</label>
          <input type="text" id="last_name" name="last_name"> == $0
        </div>
      </div>
    </form>
  </div>
</div>
```

Testing :-

```
}elseif(!isset($last_name)){
    echo "Sorry, your Last Name cannot be blank </br>" ;
    $checkValidity = false ;
}
```

What went Wrong ?

Sorry, your First Name cannot be a number
Invalid email format
Please enter valid phone number

What if information passes sanitization but fails to create MySQL query ?

User is tempering with our website

```
if($checkValidity){  
  
if (mysqli_query($conn, $sql) and $checkValidity)  
{  
    $submission = TRUE;  
}else {  
    echo "Sorry some informations entered were not valid, Please go back and enter valid information. Thank You" ;  
}  
}
```

Default Error

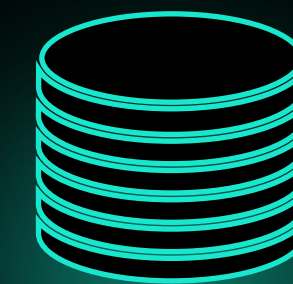


Shiva Karki

*Computer Science
Facilitator*



Data Retrieval



Testing



Deliverables



Today

Arthur Penn	Shiva Industries	UI Developer	2020-11-12 21:03:33
Tommy Townley	Shiva Industries	AR Developer	2020-11-12 21:02:56
Shiva Karki	Shiva Industries	Software Developer	2020-11-12 20:56:26
Sailesh Rajanala	Sailesh Rajanala Indu...	CEO	2020-11-12 00:43:43
Laura Vercetti	Shock Inc.	Chief Design Officer	2020-11-12 00:43:20

Older

Sophia Johnson	Sophia Industries	Manager	2020-11-10 18:54:22
Shiva Karki	Ncell	Developer	2020-11-10 18:54:09
Sailesh Rajanala	Sailesh Constructions	CEO	2020-11-10 17:17:14
Boss Magic	ksandn	jdnfj	2020-11-09 18:33:51
priyanka chongbang			2020-11-09 00:50:52
JakeoJohn Firefox	JOHNJAKE	Manager	2020-11-08 23:57:24

Today

Arthur Penn	Shiva Industries	UI Developer	2020-11-12 21:03:33
-------------	------------------	--------------	---------------------

Tommy Townley	Shiva Industries	AR Developer	2020-11-12 21:02:56
---------------	------------------	--------------	---------------------

Shiva Karki	Shiva Industries	Software Developer	2020-11-12 20:56:26
-------------	------------------	--------------------	---------------------

Sailesh Rajanala	Sailesh Rajanala Indu...	CEO	2020-11-12 00:43:43
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Laura Vercetti	Shock Inc.	Chief Design Officer	2020-11-12 00:43:20
----------------	------------	----------------------	---------------------

Mr. Shiva Karki

Software Developer

Shiva Industries

LinkedIn : Shiva1724

Current Status : Employed

Notes

I love coding and I would like to get involved with your institution to help provide current achievers some valuable real life experience in

(X)

Notes

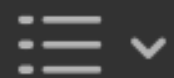
I love coding and I would like to get involved with your institution to help provide current achievers some valuable real life experience in developing software tools that enrich people's life. Please contact me if with my phone number listed in this form. I can't wait to get started. Thank you.

Email : shivakarki@gmail.com

Phone : 1234567890

Timestamp : 2020-11-12 20:56:26

(X)



Aa



Helvetica ▾

12 ▾

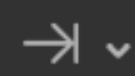
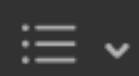


B

I

U

~~S~~



To: shivakarki@gmail.com ▾

Cc:

Subject:

From:

Signature: None



Notes

I love coding and I would like to get involved with your institution to help provide current achievers some valuable real life experience in developing software tools that enrich people's life. Please contact me if with my phone number listed in this form. I can't wait to get started. Thank you.

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Testing

Cross Browser Compatibility

-  Webpage looks and works in a similar way across different browsers

Mobile Responsiveness

-  Webpage supports smaller devices (mobile phones)

Compatibility (Desktop)



Operating System

-  Windows 7 or later
-  Mac OS X Mavericks or later
-  64-bit Ubuntu 14.04 or later
-  Fedora Linux 24 or later
-  Debian 8 or later

Web Browser

-  Google Chrome 76 or later
-  Safari 9 or later
-  FireFox 83 or later
-  Microsoft Edge 17 or later

Compatibility (Mobile)



Operating System

-  Android 5 (Lollipop) or later
-  iOS 9 or later

Web Browser

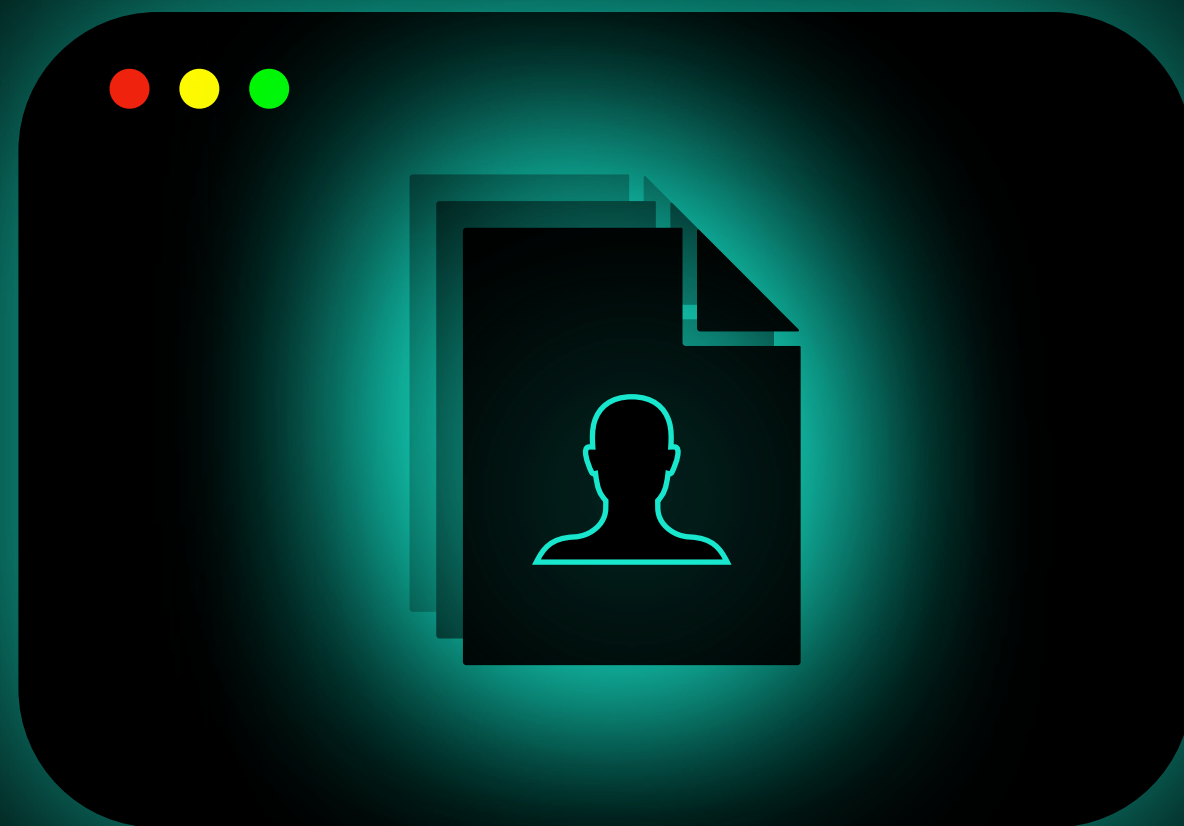
-  Google Chrome 86 or later
-  iOS Safari 9 or later
-  Android WebView : Chromium 81 or later
-  Samsung Internet 12.0 or later

Deliverables



Webpage

-  The webpage that retrieves data from database is a major deliverable.

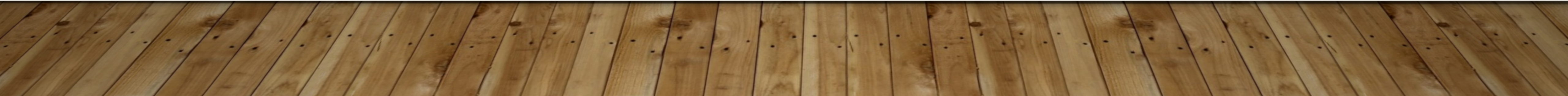


USER STORIES

MULTIPLE ENTRIES.

UPDATED ENTRIES.

MULTIPLE ENTRIES FROM MULTIPLE ACCOUNTS.

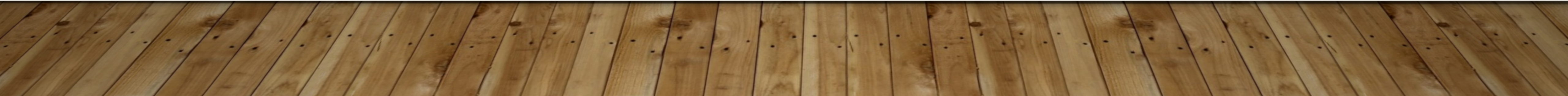


Test Cases

Using with three main browsers chrome, mozilla, and safari. (latest release version).

Using on mobile browser apps.

Entry capacity.

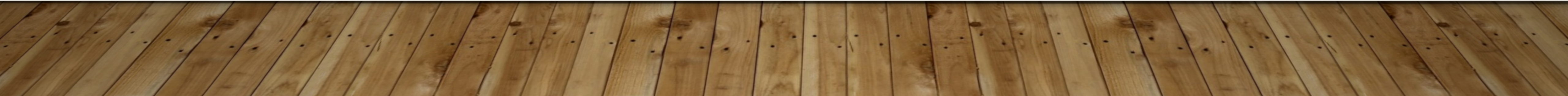


Solutions

Adding test users to the form.

Creating rules for web-forms.

Acceptable/Unacceptable elements in web-forms.



Questions?





Thank you