





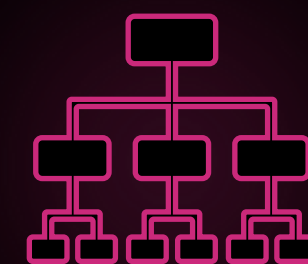
Sailesh Rajanala

Computer Science

Lead



Team



Problem & Solution



Research & Contributions



Team



"Team Lotus"



Interdisciplinary Team



Computer Science



Computer Engineering



All of us are International students



Team Lotus



<i>NAME</i>	<i>ROLE</i>	<i>DISCIPLINE</i>	<i>EXPERTISE</i>
Sailesh Rajanala	Lead	Computer Science	Web Designer/Developer
Priyanka Limbu	Time Keeper	Computer Science	Database Developer
Shiva Karki	Facilitator	Computer Science	Database designer
Subash Acharya	Scribe	Computer Engineering	Back-end Programmer
Waryam Mazhar	Project Manager	Computer Science	Security, front-end developer

Problem



- ✿ Department specific **Senior Design Course**
Department specific **list of Contacts**
- ✿ These Lists are
 - ✿ static
 - ✿ not updated regularly
 - ✿ in different formats
- ✿ Instructors rely on same set of contacts for new projects

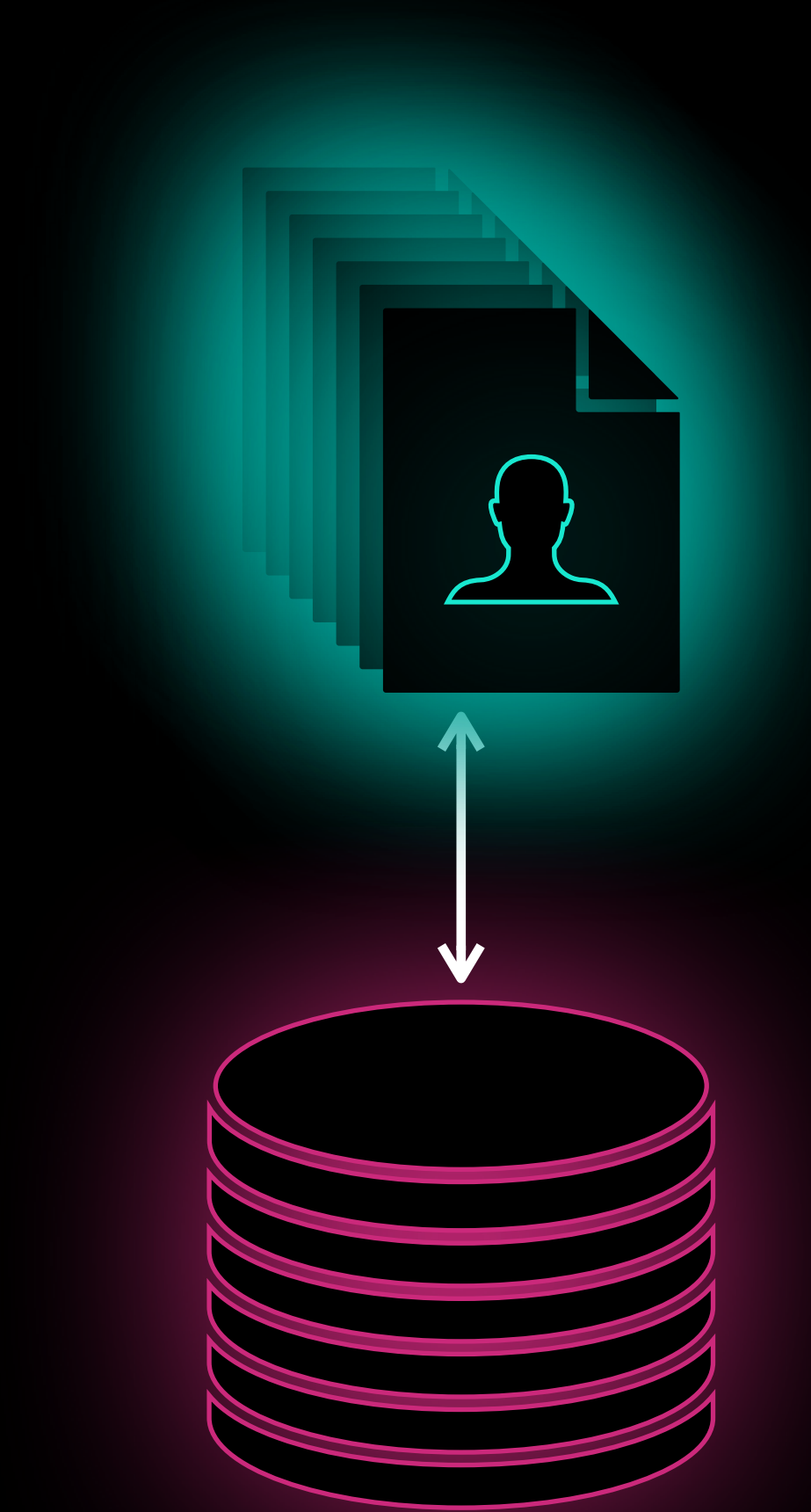


Gathering interdisciplinary sponsored projects has become a **challenge**

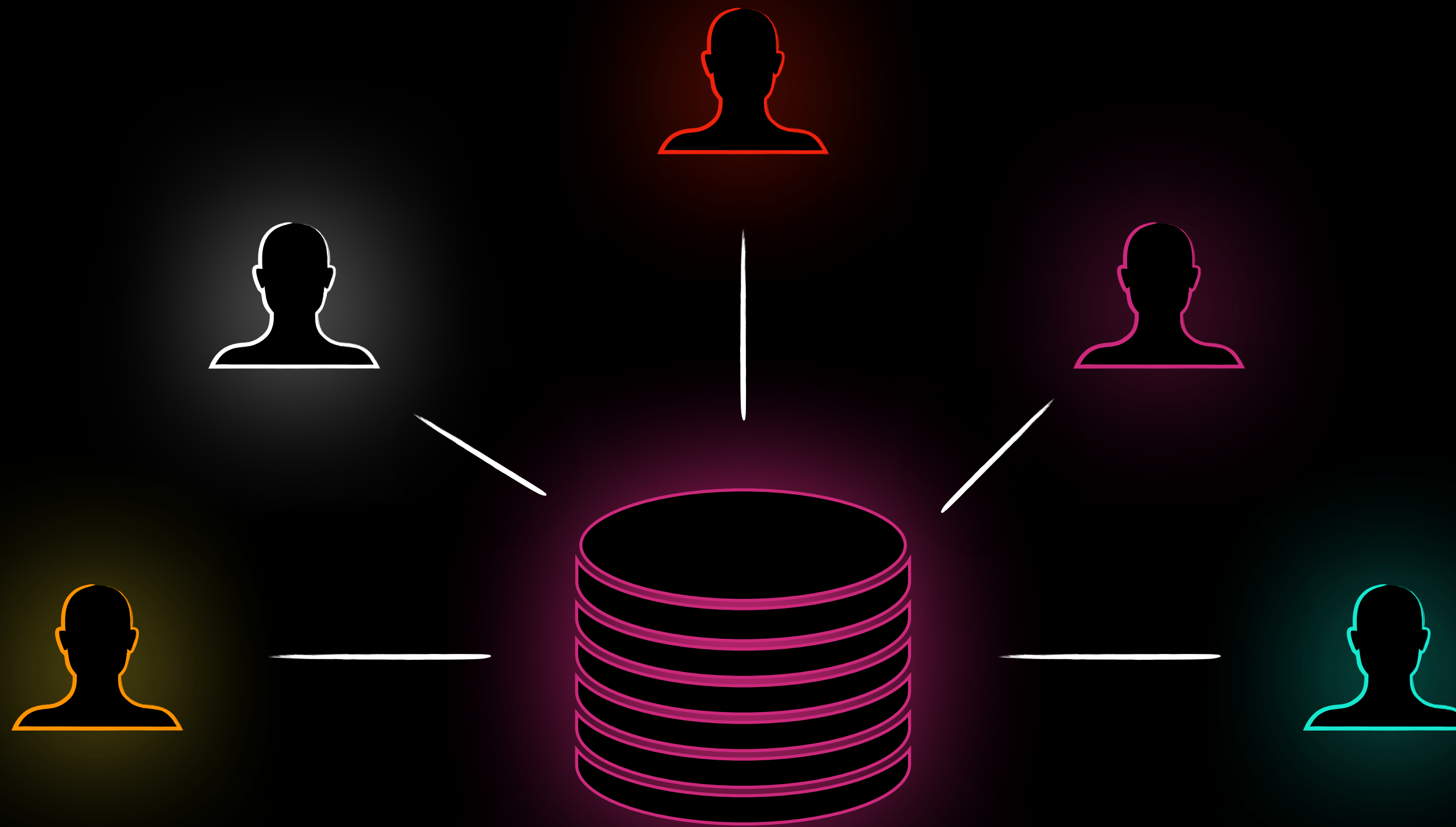
Solution



- ✿ A unified **Database** on university's web server
- ✿ Stores all the lists as one **dynamic** list
- ✿ Simple and easy to use
 - ✿ Industry Partners fill the web form
 - ✿ Then, Database updates
 - ✿ Accessible to all Senior Design Instructors



All in One location to identify Industry, Research and Community Partners



Industry Partner Database

Proposed by Dr. Cindi Mason, Senior Design Instructor

Sailesh Rajanala

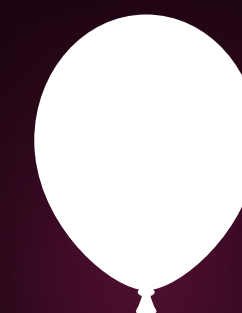
Role : Lead

Responsibility : Identify tasks, technologies, activities and deliverables

Contributions

✿ *Identifying Core Values of our project*

Compatibility ✿ *Sustainability* ✿ *Expandability*



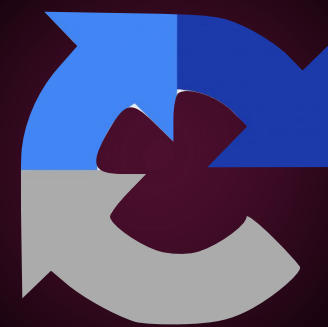
Contributions

- ✿ *Discord* for Communication
- ✿ *Google Docs* for Collaboration
- ✿ *GitHub* for Version Control



Research

- ✿ *Prevention of Spam Entries using RECAPTCHA*





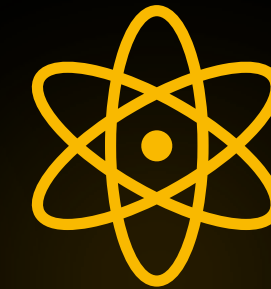
Priyanka Limbu

Computer Science

Time Keeper



Technologies



Research & Contributions



Technologies

🌸 Front End - *webpage*

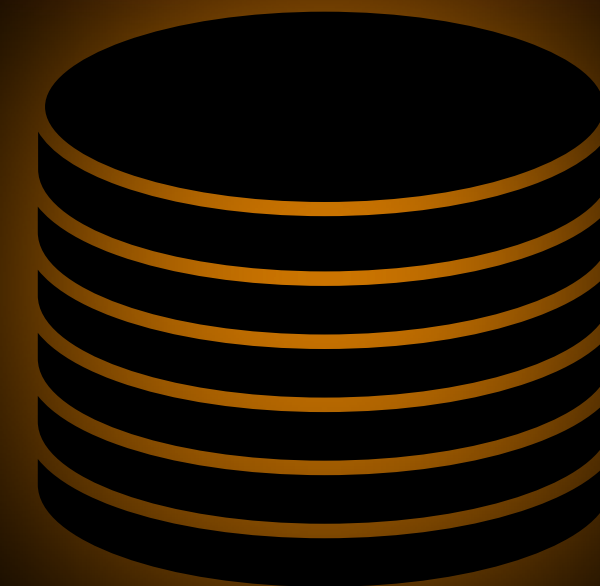
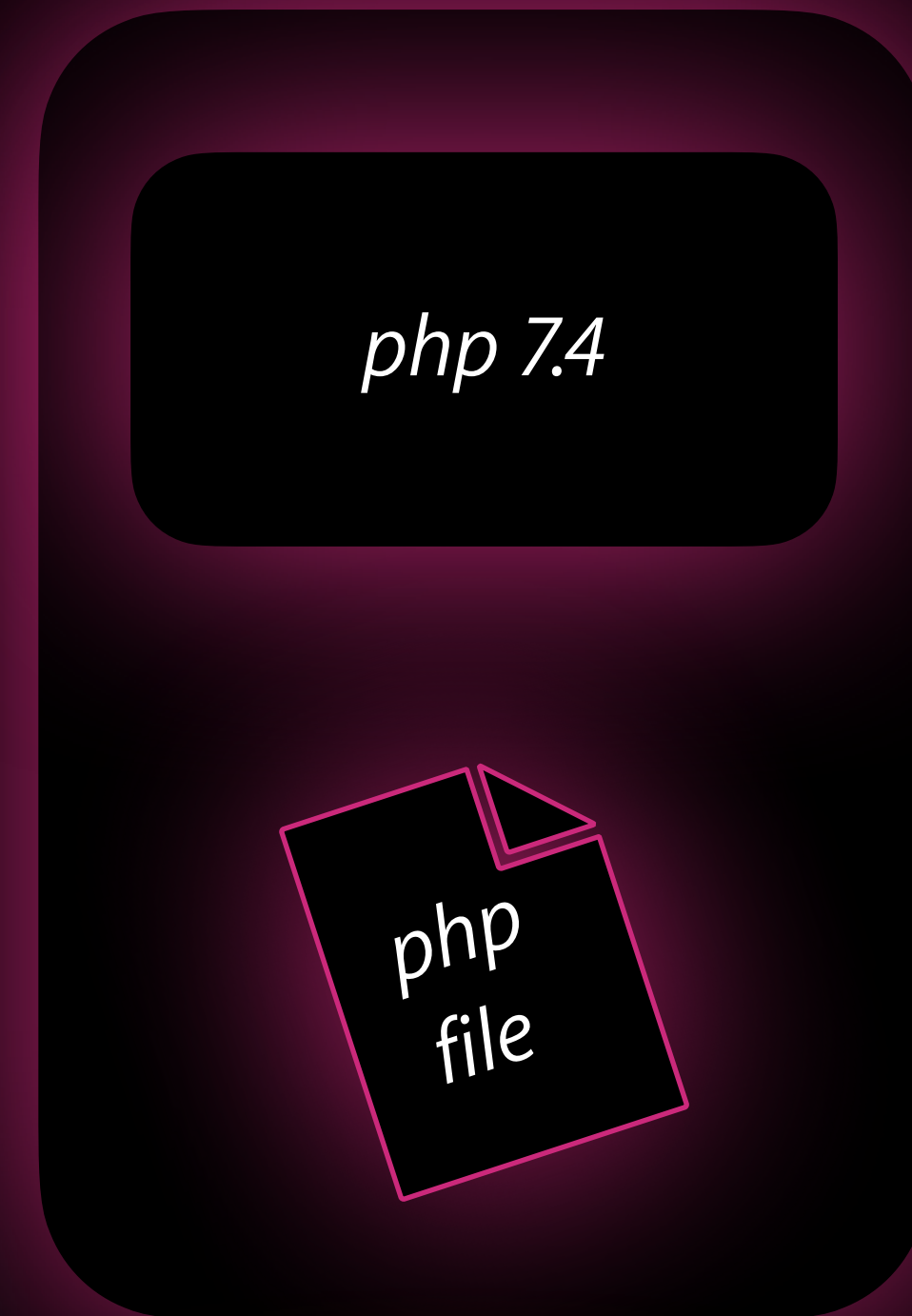
🌸 *HTML 5* 🌸 *CSS 3* 🌸 *Javascript*

🌸 Back End - *server*

🌸 *php 7.4*

🌸 Database

🌸 *MySQL*



Contributions

- ✿ *Participated in various meetings with Stakeholders*
- ✿ *Inquired about the license for technology*
- ✿ *Keep track of meetings, minutes*

Research

- ✿ *MariaDB*
- ✿ *InnoDB*



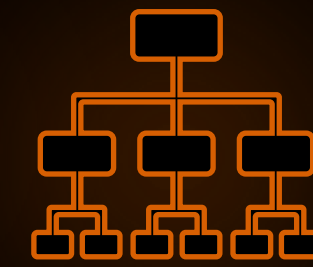
Subash
Acharya

Computer Engineering

Scribe



Working and Data Flow



Experience



Research



Coding Html, Css, Js and Php



Render Using Houdini



Contributions

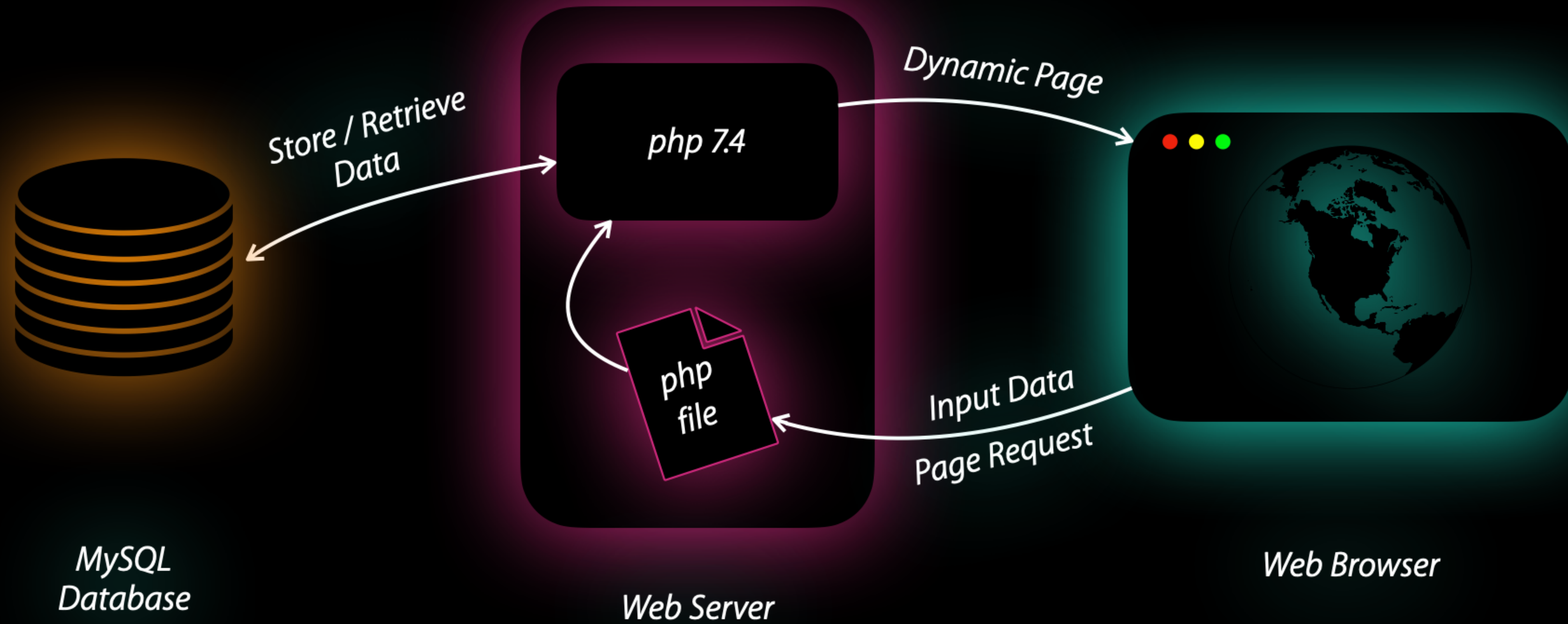
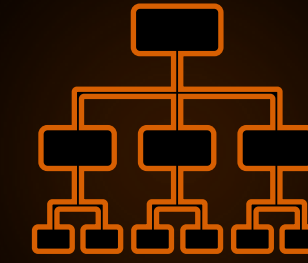


UI/UX design



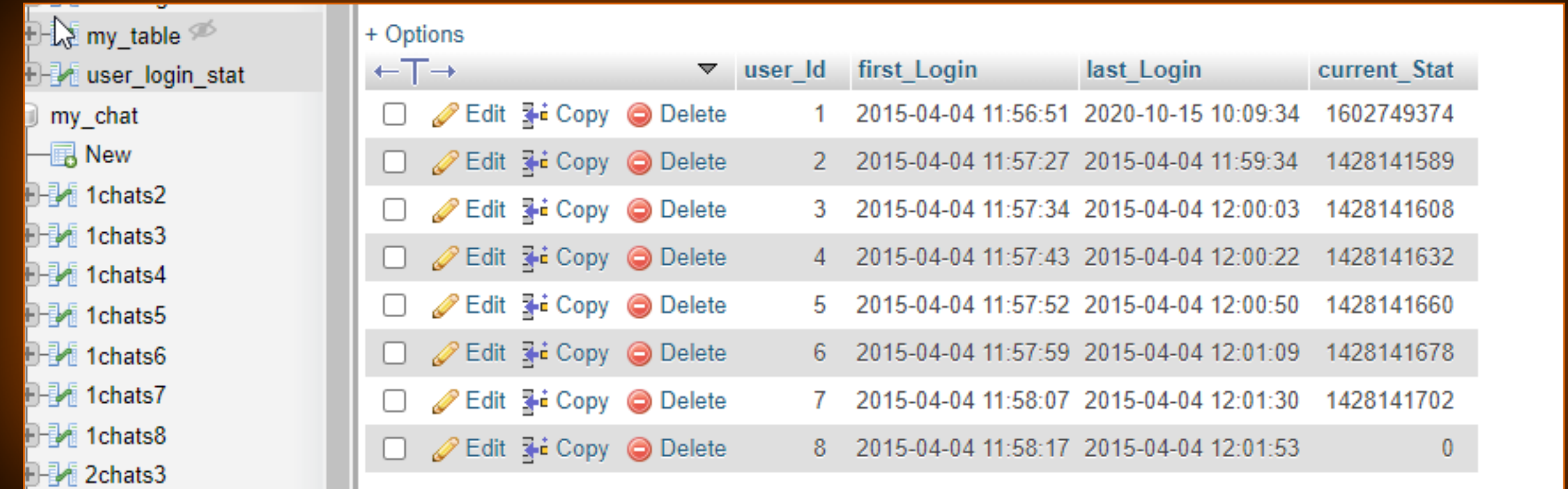
Dummy Website

Working and Data Flow

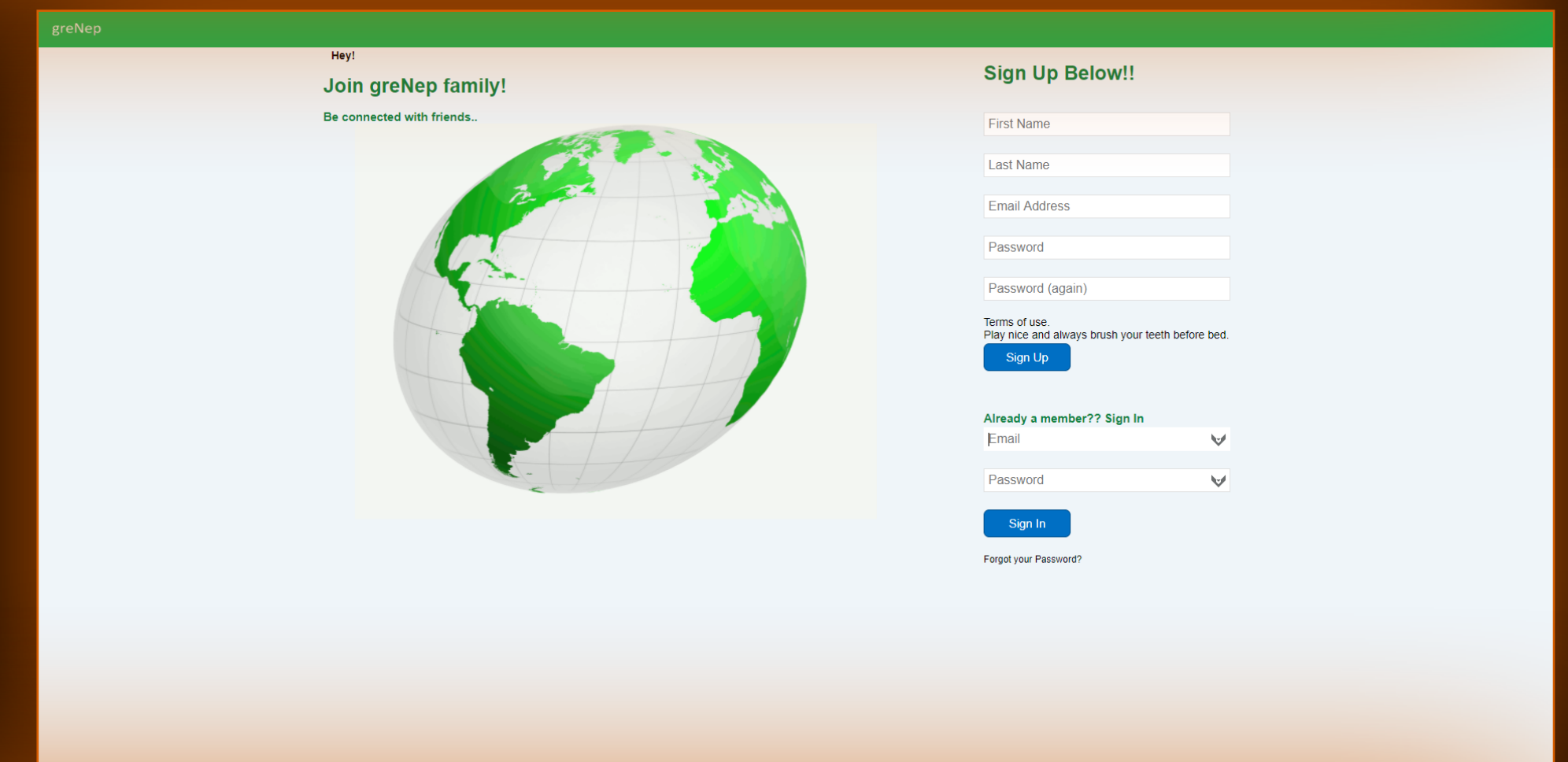


Experience

- Previously worked on self made Social Networking website which featured
 - Sign up and user email verification using salted link
 - Login and maintain Session
 - Ability to send and receive friend request and chat in real time using comet chat system
 - Deploy, Configure and maintain a webpage on Amazon Web Service (AWS)
- With this experience in hand, More focused on learning the updated versions of languages and security issues



	user_Id	first_Login	last_Login	current_Stat
☐ Edit Copy Delete	1	2015-04-04 11:56:51	2020-10-15 10:09:34	1602749374
☐ Edit Copy Delete	2	2015-04-04 11:57:27	2015-04-04 11:59:34	1428141589
☐ Edit Copy Delete	3	2015-04-04 11:57:34	2015-04-04 12:00:03	1428141608
☐ Edit Copy Delete	4	2015-04-04 11:57:43	2015-04-04 12:00:22	1428141632
☐ Edit Copy Delete	5	2015-04-04 11:57:52	2015-04-04 12:00:50	1428141660
☐ Edit Copy Delete	6	2015-04-04 11:57:59	2015-04-04 12:01:09	1428141678
☐ Edit Copy Delete	7	2015-04-04 11:58:07	2015-04-04 12:01:30	1428141702
☐ Edit Copy Delete	8	2015-04-04 11:58:17	2015-04-04 12:01:53	0



greNep

Hey!
Join greNep family!
Be connected with friends..

Sign Up Below!!

First Name
Last Name
Email Address
Password
Password (again)

Terms of use.
Play nice and always brush your teeth before bed.

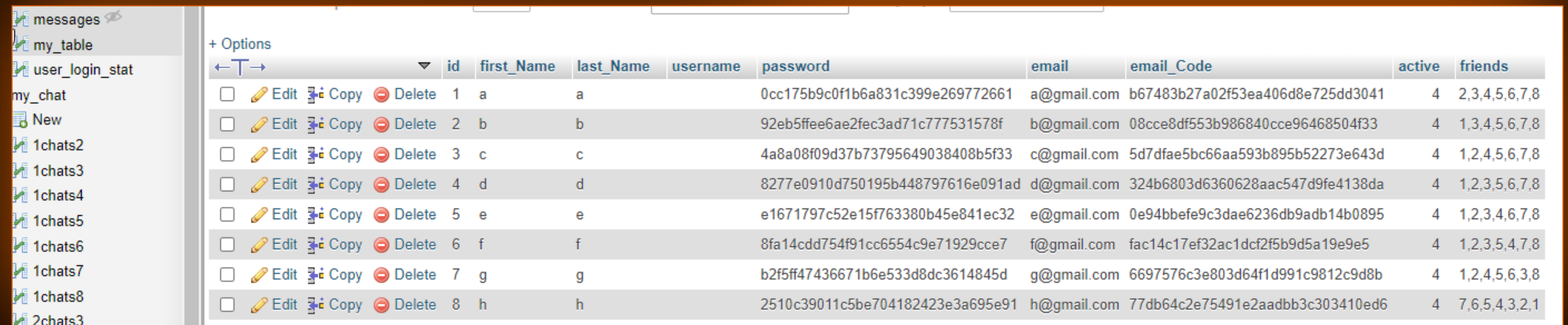
Sign Up

Already a member?? **Sign In**

Email
Password

Sign In

Forgot your Password?



	id	first_Name	last_Name	username	password	email	email_Code	active	friends
☐ Edit Copy Delete	1	a	a		0cc175b9c0f1b6a831c399e269772661	a@gmail.com	b67483b27a02f53ea406d8e725dd3041	4	2,3,4,5,6,7,8
☐ Edit Copy Delete	2	b	b		92eb5ffee6ae2fec3ad71c777531578f	b@gmail.com	08cce8df553b986840cce96468504f33	4	1,3,4,5,6,7,8
☐ Edit Copy Delete	3	c	c		4a8a08f09d37b73795649038408b5f33	c@gmail.com	5d7dfae5bc66aa593b895b52273e643d	4	1,2,4,5,6,7,8
☐ Edit Copy Delete	4	d	d		8277e0910d750195b448797616e091ad	d@gmail.com	324b6803d6360628aac547d9fe4138da	4	1,2,3,5,6,7,8
☐ Edit Copy Delete	5	e	e		e1671797c52e15f763380b45e841ec32	e@gmail.com	0e94bbefe9c3dae6236db9adb14b0895	4	1,2,3,4,6,7,8
☐ Edit Copy Delete	6	f	f		8fa14cdd754f91cc6554c9e71929cce7	f@gmail.com	fac14c17ef32ac1dcf2f5b9d5a19e9e5	4	1,2,3,5,4,7,8
☐ Edit Copy Delete	7	g	g		b2f5ff47436671b6e533d8dc3614845d	g@gmail.com	6697576c3e803d64f1d991c9812c9d8b	4	1,2,4,5,6,3,8
☐ Edit Copy Delete	8	h	h		2510c39011c5be704182423e3a695e91	h@gmail.com	77db64c2e75491e2aadbb3c303410ed6	4	7,6,5,4,3,2,1

Research



Coding Html, Css, Js and PHP

submit.php — D:\xampp\htdocs\database — Atom

File Edit View Selection Find Packages Help

index.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Database</title>
6 </head>
7 <body>
8   background-image: url('wall.png');
9   background-repeat: no-repeat;
10  background-attachment: fixed;
11  background-size: cover;
12 </body>
13 #mainForm {
14   margin-left: 40%;
15   margin-top: 20%;
16 }
17 </head>
18 </body>
19 </style>
20 <body name="body">
21 <div id="mainForm">
22   <h1 name="Form">Welcome To Database Input Form</h1>
23   <form action="submit.php" method="post" >
24     <label for="fname" >First name:</label><br>
25     <input type="text" id="fname" name="fname" placeholder="Sailesh"><br>
26     <label for="lname">Last name:</label><br>
27     <input type="text" id="lname" name="lname" placeholder="Smith"><br>
28     <input type="submit" name="submit">
29   </form>
30 </div>
31
32
33
34 </body>
35 </html>
```

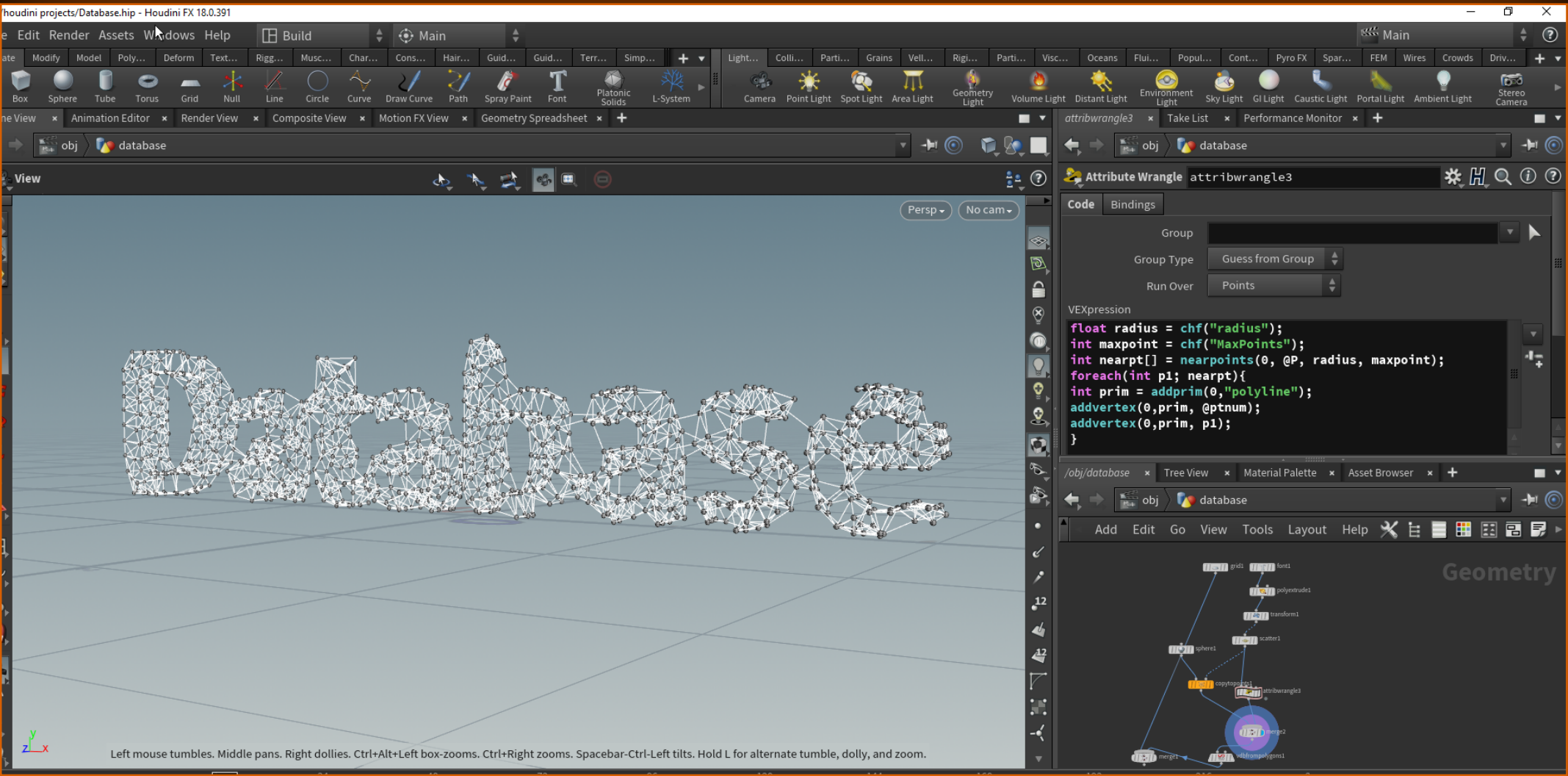
submit.php

```
1 <?php
2 $fname = $_POST["fname"];
3 $lname = $_POST["lname"];
4
5 echo "Hi $fname , Your last name is $lname" ;
6
7 $servername = "localhost";
8 $username = "subash";
9 $password = "subash";
10
11 $conn = mysqli_connect($servername, $username, $password, "main_database");
12 $sql = "SELECT First_Name, Last_Name FROM primary_table";
13 $result = $conn->query($sql);
14
15 if ($result->num_rows > 0) {
16   // output data of each row
17   while($row = $result->fetch_assoc()) {
18     if($row["First_Name"] != ""){
19       echo "<br> Name: " . $row["First_Name"]. " " . $row["Last_Name"] . "<br>";
20     }
21   }
22 } else {
23   echo "0 results";
24 }
25
26
27
28 // Create connection
29
30
31 // Check connection
32 if (!$conn) {
33   die("connection failed: " . mysqli_connect_error());
34 }
35
36 echo "Connected successfully";
```



Render Using Houdini

Node based procedural software used for motion graphics, VFX, Simulation etc



Contribution

UI/UX design

Please Click Below To Submit Your Form

Submit

Admin

UserName:

Password:

Sign In

First Name:

eg. James

Last Name:

eg. Smith

Email:

eg. john@gmail.com

Phone No:

eg. (316)-999-9999

College:

eg. SouthWest College

Current Status:

eg. employed

LinkedIn:

eg. jeffweiner08

Workplace:

eg. Google

Position title:

eg. Manager

Notes:

Submit

Database

Log Out

Search Word

Search Type

eg. charles

Email

View All

Latest

S.N	Name	Email	Phn No.	College
-----	------	-------	---------	---------

No New Contacts Received

Search Word

eg. charles

Search Type

Email

Name

Phone No.

View All

Ascending

Descending

Latest

Oldest

S.N	Name	Phone No.	College
1	John Cena	john@yahoo.com (316)-255-2698	Barton College
2	John Cena	john@yahoo.com (316)-255-2698	Barton College
3	John Cena	john@yahoo.com (316)-255-2698	Barton College
4	John Cena	john@yahoo.com (316)-255-2698	Barton College
5	John Cena	john@yahoo.com (316)-255-2698	Barton College
6	John Cena	john@yahoo.com (316)-255-2698	Barton College
7	John Cena	john@yahoo.com (316)-255-2698	Barton College
8	John Cena	john@yahoo.com (316)-255-2698	Barton College
9	John Cena	john@yahoo.com (316)-255-2698	Barton College
10	John Cena	john@yahoo.com (316)-255-2698	Barton College
11	John Cena	john@yahoo.com (316)-255-2698	Barton College
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14	John Cena	john@yahoo.com (316)-255-2698	Barton College
15	John Cena	john@yahoo.com (316)-255-2698	Barton College
16	John Cena	john@yahoo.com (316)-255-2698	Barton College
17	John Cena	john@yahoo.com (316)-255-2698	Barton College
18	John Cena	john@yahoo.com (316)-255-2698	Barton College
19	John Cena	john@yahoo.com (316)-255-2698	Barton College

Database

Search Word

eg. charles

Search Type

Email

Log Out

View All

Latest

S.N	Name	Email	Phn No.	College
1	John Cena	john@yahoo.com	(316)-255-2698	Barton College
2	John Cena	john@yahoo.com	(316)-255-2698	Barton College
3	John Cena	john@yahoo.com	(316)-255-2698	Barton College
4	John Cena	john@yahoo.com	(316)-255-2698	Barton College
5	John Cena	john@yahoo.com	(316)-255-2698	Barton College
6	John Cena	john@yahoo.com	(316)-255-2698	Barton College
7	John Cena	john@yahoo.com	(316)-255-2698	Barton College
8	John Cena	john@yahoo.com	(316)-255-2698	Barton College
9	John Cena	john@yahoo.com	(316)-255-2698	Barton College
10	John Cena	john@yahoo.com	(316)-255-2698	Barton College
11	John Cena	john@yahoo.com	(316)-255-2698	Barton College
12	John Cena	john@yahoo.com	(316)-255-2698	Barton College
13	John Cena	john@yahoo.com	(316)-255-2698	Barton College
14	John Cena	john@yahoo.com	(316)-255-2698	Barton College
15	John Cena	john@yahoo.com	(316)-255-2698	Barton College
16	John Cena	john@yahoo.com	(316)-255-2698	Barton College
17	John Cena	john@yahoo.com	(316)-255-2698	Barton College

Name

Willion Conard

Email

Conard@gmail.com

Phone No.

(316)-158-4896

College

Butler College

Linked In

jeff67

Work Place

Google

Position Title

Manager

Current Status

Unemployed

Delete

Dummy Website

Welcome To Database Input Form

First name:

Salah

Last name:

Smith

Submit

XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]

Modules

Service	Module	PID(s)	Port(s)	Actions
☐	Apache	13112 3356	80, 443	Stop Admin Config Logs
☐	MySQL	23124	3306	Stop Admin Config Logs
☐	FileZilla			Start Admin Config Logs
☐	Mercury			Start Admin Config Logs
☐	Tomcat			Start Admin Config Logs

Config

Netstat

Shell

Explorer

Services

Help

Quit

9:18:11 PM [main] All prerequisites found

9:18:11 PM [main] Initializing Modules

9:18:11 PM [main] Starting Check-Timer

9:18:11 PM [main] Control Panel Ready

9:19:21 PM [Apache] Attempting to start Apache app...

9:19:21 PM [Apache] Status change detected: running

9:19:22 PM [mysql] Attempting to start MySQL app...

9:19:22 PM [mysql] Status change detected: running

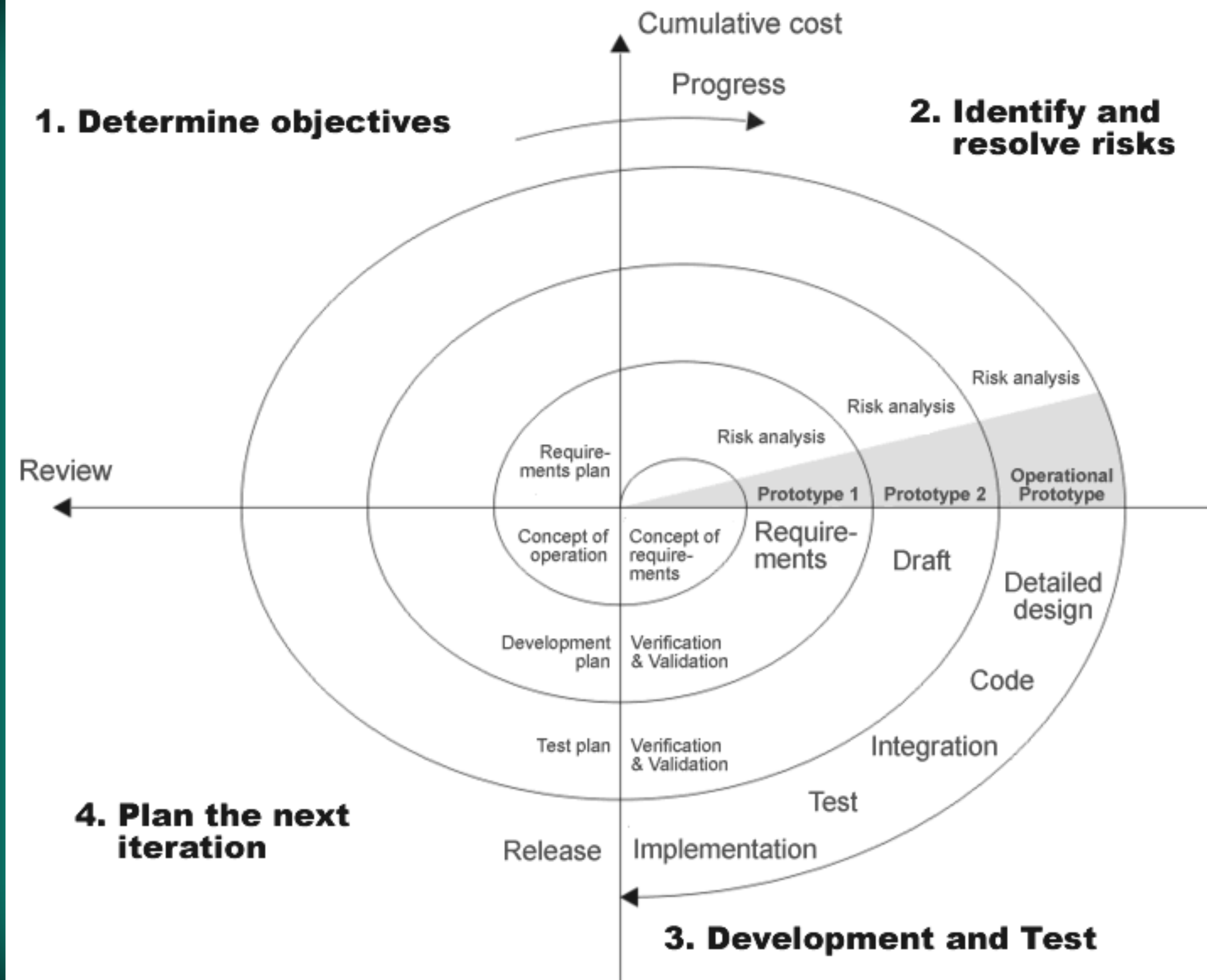


Shiva Karki

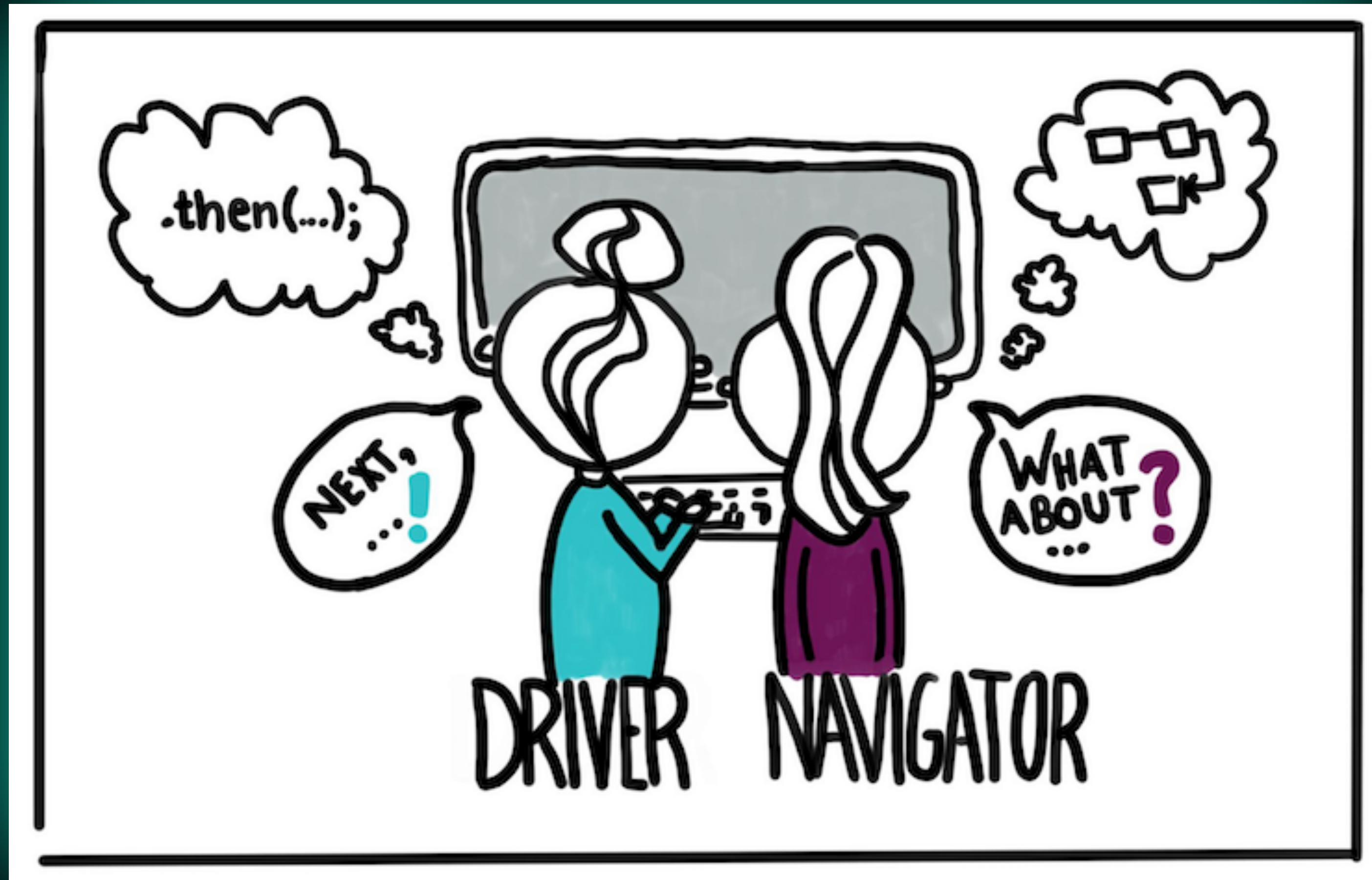
*Computer Science
Facilitator*

- 🌸 *Software Life Cycle Model*
- 🌸 *Pair Programming*
- 🌸 *Research & Contributions*





The Spiral Model



Pair Programming

Contributions

- ✿ *MRC for Technologies*
- ✿ *Meeting Materials*
- ✿ *Discussion with Professors*

Research

- ✿ *Prevention of Spam Entries
using Add a Test Question*
- ✿ *Technologies on Web Pages*

Potential Legal and Ethical Issues

Duplication of Copyrighted Materials

False Information

Scam Artists

Spam



Standards Identified

The product shall adhere to the following regulatory standards:

- The project will adhere to FERPA rights.
- The project will adhere to ITSA regulatory standards.

Our take on Legal and Ethical Issues

Checking source of content

Fact checking information

Allowing limited access

Adding security functionality



Legal and Ethical Analysis

Compliance of data

Level of accessibility

Data update responsibility



Final Thoughts

Standards may change in the future and more functionality would be required as the database evolves to allow space to effectively counter legal and ethical issues.



Questions?





Thank you