

Chapter 01 - Introduction to Training Establishment

1.1 Introduction to UJPS Academy (Pvt) Ltd.



Figure 1: Organization Logo

UJPS ACADEMY (PVT) LTD provides services to the society in the capacity of a university. Apart from that it has separate division called "Solution Division" which provides Information Technology solutions and other customized solutions for any requirement with industry experts.

Further there are other subsidiaries attached to the academy known as UJPS Recruitment and UJPS Vacations with a plan of expanding to more areas.

It will help our students to get industrial experience as well as earn money while learning.

1.1.1 Organization details

Name

UJPS Academy (Pvt) Ltd.

Address

No111, Uva Province,
Badulla District,
UvaParanagama Division,
Ambagasdowa.

Contact Details

+94 072 727 2288

ujpsacademy@gmail.com

Web site

<http://ujpsacademy.lk/>

Location



Figure 2: Company Location

1.1.2 Organizational Structure

- U.J. PRASHAD SRILAL
(CO-FOUNDER/DIRECTOR)
Co-founded UJPS Academy with the precise intention of providing best education to the students, ICT and Management consultancy services, Corporate training and Human capacity building.
- SHEHANA BOGAHAWATTA
(HR MANAGER)
- S.M. ROSHAN AJITH CHAMINDA
(CONSULTANT)
B.Sc. in Computing and Information Systems (UK)
MBA (PIM-SJP)
PGDBM (Uni Wayamba)
Advanced Diploma in Marketing (CIM-UK)
Certificate IV in Work Place Assessment (AUS)
FCE (University of Cambridge)
Member of Computer Society (SL)
- GAYAN KAUSHALYA
(SOFTWARE ENGINEER)
- M.D.D. SENARATHNA
(LECTURER)
Bachelor of Technology in Multimedia & Web Technology
University of Vocational Technology, Sri Lanka

1.1.3 Nature of Business (Product / Services)

UJPS ACADEMY (PVT) LTD provides services to the society in the capacity of a university. Apart from that it has separate division called "Solution Division" which provides Information Technology solutions and other customized solutions for any requirement with industry experts.

Further there are other subsidiaries attached to the academy known as UJPS Recruitment and UJPS Innovations.

It will help students to get industrial experience as well as earn money while learning.

- **Education**

Our Academy is providing the best education since 2014

- **Consultancy Services**

- **Professional Services**

We have grown rapidly and now incorporate a new set of services from Graphic Design to Web Development & Social Media Marketing

Our aim is to provide quality Software Development and Deployment with 100% customer satisfaction.

- **Learning and Development Solutions**

SUBSIDIARIES

- UJPS Recruitment
- UJPS Vacations
- UJPS Innovations

1.1.4 Vision

To be the best education entity in Sri Lanka by 2030.

1.1.5 Mission

Deliver the knowledge with lairdship and elegant technology and industrial experience where students can learn while earning.

1.2.6 Core Values

- Team Work
- Authenticity
- Uniqueness
- Generalness

1.1.7 Number of Employees

10-15

1.2 Conducting the Organization

1.2.1 Management Styles / Administrative Practices

UJPS Academy doesn't have any specific management styles / administrative practices. But the management seeks employees' feedback before making decisions. This leads to a better relationship between the management and employees. So less turnover and greater employee loyalty can be noticed at UJPS Academy.

1.2.2 Leave

Normally permanent employees of UJPS Academy are entitled to below leave.

Table 01: Management of Employee Leave Entitlement

Category	Number of leaves
Annual Leave	14 per year
Casual Leave	7 per year
Medical Leave	21 per year

When a new employee joins the UJPS Academy, that employee entitles only 1 casual leave and 3 ½ Medical leave per 02 Months.

He/she entitles Vacation leave according to the quarter of the year he/she joins. If he/she joins in the,

- 1st Quarter, 14 Days of vacation leaves are entitled
- 1st Quarter, 14 Days of vacation leaves are entitled
- 3rd Quarter, 07 Days of vacation leaves are entitled
- 4th Quarter, 04 Days of vacation leaves are entitled

But when begins the new Calendar Year he / she entitles the normal casual and vacation leave. From the second year onward, that employee is entitled to 14 days of paid vacation leave, after completion of 12 months of continuous service.

07 days' Casual leave with prior approval of which not more than 02 days. Could be taken at any one time.

1.2.3 Holidays

The employee shall be entitled to receive all the mercantile holidays.

1.2.4 Provident Fund & Trust Fund

All permanent and casual employees of the UJPS Academy (Pvt) Ltd are entitled to the EPF. EPF deductions are done by their basic salaries. Deduction percentages are mentioned below.

Table 02: EPF/ETF Contributions

Employee's contribution	8% of the total monthly earnings (To be deducted from the Employer's Salary/Wage)
Company contribution	An amount equivalent to 12% of the total monthly income of the employee (To be paid totally by the Employer)
Employees' Trust Fund.	The company will contribute 3% of the employee's salary

1.2.5 Recruitment Procedures

When recruit new employees to the UJPS Academy (Pvt) Ltd, a considerable procedure is followed. This Recruitment Procedures can be divided to simple steps as follows,

1. Create vacancies
2. Advertise in Job Vacancy Websites and Social Medias
3. Call applications
4. Short List those applications according to the required criteria
5. Call for interview for those suitable applicants
6. Interview candidates with online Test
7. Select and Confirm

1.2.6 Salaries and Allowances

Staff members are getting several types of allowance in respect of their basic salary. It depends on the designation of the employ

1.2.7 Compensation

When an employee resigns before his/her retirement, he will also be able to gain only ETF, EPF and Gratuity Payments (Service should be more than 05 Years).

If an employee of the UJPS Academy is guilty for mistake he/she is punished and expelled from the job, he will not be able to gain any compensation. Only ETF, EPF and Gratuity Payments (Service should be more than 05 Years) are paid.

1.2.8 Management Activities and welfare

Recruitment procedures

- Interviewing candidates
- Interviewing candidates with a online test.

Welfare activities

- Giving regular free times.
- Providing services for the various service needs of the employees.
- Given the opportunity to various events for the employees.

1.2.9 Training and Development Strategies

UJPS Academy, Training & development strategies are used to improve the status of the employee mainly. These strategies are used in 02 situations and those are;

1. Training when the superiors feel that the subordinates' knowledge is not enough to continue daily duties.
2. When the employee understands by himself that he/she is hasn't sufficient knowledge to continue duties.

1.2.10 Safety Practices

- Choose strong password
- Backup on regular based details.
- Use email and internet safely.
- Protect sensitive data

In recycling and repurposing computer

Chapter 02 - Training Experience

2.1 My Training Experience

In the 6-month industrial training period of HNDIT, I got very important experience about the Professional Web Development at the UJPS Academy (Pvt) Ltd. At the beginning, the office provided full introduction about the environment which I must follow at the working environment.

This chapter describes what are the new things I learned, what are the Tools and Technologies I used and how I apply those things in the Software Development live environment, activities performed during the training period, what are the problems that I faced and how encountered them, so on.

Table 03: Training Summary

Immediate Supervisors	Mr. Gayan Ederisooriye
Projects	Education Management Web Site
Duration	06 months
Tool Used	Visual Studio, Figma, Anydesk, Mysql, Zoom,
Frameworks/Libraries	Bootstrap, React
Languages	PHP, JS, HTML, CSS,

I worked for Project as a developer and developed Web Design part and Visual Studio development part (Frontend), I designed Font end interfaces for web applications.

2.2 Tools and Applications

Visual Studio



Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

MYSQL



MySQL is a full-featured relational database management system (RDBMS) that competes with the likes of Oracle DB and Microsoft's SQL Server. However, the MySQL source code is freely available because it was originally developed as freeware.

HTML



The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript

PHP



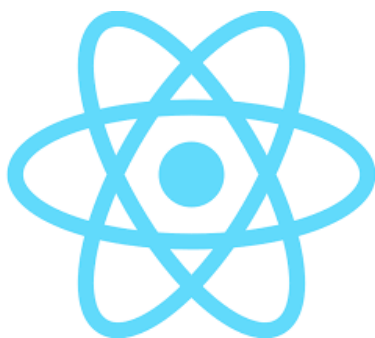
It's a stands for the Hypertext Preprocessor. PHP code usually processed on a web server by a PHP interpreter implemented as a module. This is a scripting language which is especially suited to web development. PHP originally stood for Personal Home Page.

JavaScript



JavaScript (JS) is a scripting language, primarily used on the web. It is used to enhance HTML pages and is commonly found embedded in HTML code. JavaScript is an interpreted language. Thus, it doesn't need to be compiled. JavaScript renders web pages in an interactive and dynamic fashion. This allowing the pages to react to events, exhibit special effects, validates data etc.

REACT



React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications. It's used for handling the view layer for web and mobile apps. React also allows us to create reusable UI components.

Figma



Figma is a vector graphics editor and prototyping tool which is primarily web-based, with additional offline features enabled by desktop applications for macOS and Windows. The Figma mobile app for Android and iOS allow viewing and interacting with Figma prototypes in real-time on mobile devices.

AnyDesk



AnyDesk is a closed source remote desktop application distributed by AnyDesk Software GmbH. The proprietary software program provides platform independent remote access to personal computers and other devices running the host application.

2.3 Work and Developments during the internal training period at UJPS

During the six (6) months of training period I could gain knowledge about Web applications development, Web Interface development and I increased my web development knowledge. As well as lot of technologies that are related to web interface development. Not only the development I also able to learn coding conventions, how to design, maintain, bugs fixing of complex systems, how to interact with the officers who use the system, and how to work as group together for one project like lot of things.

This chapter describes how we create web site according to the guide of the project manager, what the new things I learned, what the Tools and Technologies I used and how I apply those things in the Web Development, activities performed during the training period, and also what are the problems I faced.

We developed the educational web site (LMS) for developing easy way for the any student to doing their online studies

The things I have learned

- I have developed my web technology knowledge by doing projects and some exercises using HTML, CSS, and JavaScript. The text editor that I have used is Visual code.
- Learned to finish my tasks within the timeline. The team leader assigned the tasks via Productive and there is a deadline to finish the task. I always tried and did my task before the deadline.
- I have learned to work with Git. All the projects that have been done were stored in Git. After I do my work I have to commit it to the git. And also I have to update the git.
- Sometimes I have to change some database tables using MySQL commands.
- And have to add some more tables and combine them with commands.

2.4 Gathering information for the web site

We searched information about school students, Schools in Sri Lanka, Teachers and etc. And we store this information in Google sheets for use to the web site's data base.

Educational Zone	DS Division	Educational Division	Name of the School	Other Names (if any)	Medium
KURUNEGALA	Kurunegala	Kurunegala	WELLAWA MADAYA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	ST. ANNE'S COLLEGE		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	HOLY FAMILY BALIKA MAHA VIDYALAYA	HFCK	SHINHALA
KURUNEGALA	Kurunegala	Maspotha	UDABADALAWA SUDARSHANA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Maspotha	SRI SARANANKARA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Maspotha	PIMBURUWELLEGAMA MADYA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	D. B. WELAGEDARA MADYA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Maspotha	MASPOTHA MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Maspotha	WAYAMBA JAYASANKA COLLGE		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	LAKDASA DE MEL COLLEGE		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	BOYAGANE MAHA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	ALAKOLADENIYA KANISHTA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	THALWITA KANISHTA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	DEMATAGOLLA KANISHTA VIDYALAYA		SHINHALA
KURUNEGALA	Kurunegala	Kurunegala	PORAPOLA KANISHTA VIDYALAYA		SHINHALA

Figure 3: Google sheet 1

Educational Zone	DS Division	Educational Division	Name of the School	Other Names	Medium	Address
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Amirthakaly Sri Sithy Vinayagar Maha Vidyalayam		Tamil	Manmunai
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Anaipanthay Hindu Ladies College		Tamil	Manmunai
Batticaloa	Manmunai Pattu	Manmunai Pattu	Bt/Bt/Arayampathy Rama Kirishna Mission Maha Vidyalayam		Tamil	Batticaloa
Batticaloa	Eravurpattu	Eravurpattu 1	Bt/Bt/Eravur Tamil Maha Vidyalayam		Tamil	Eravurpattu
Batticaloa	Eravurpattu	Eravurpattu 1	Bt/Bt/Iyankerni Tamil Vidyalayam		Tamil	Eravurpattu
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Kallady Mugathuvaram Vipulanda Vidyalayam		Tamil	Manmunai
Batticaloa	Manmunai Pattu	Manmunai Pattu	Bt/Bt/Kirankulam Vinayagar Maha Vidyalayam		Tamil	Manmunai
Batticaloa	Eravurpattu	Eravurpattu 1	Bt/Bt/Mylambavely Sri Vigneswara Vidyalayam		Tamil	Eravurpattu
Batticaloa	Manmunai Pattu	Manmunai Pattu	Bt/Bt/Pathukkuruppu Kannaki Maha Vidyalayam		Tamil	Manmunai
Batticaloa	Eravurpattu	Eravurpattu 1	Bt/Bt/St. Joseph College, Thannamunai		Tamil	Eravurpattu
Batticaloa	Manmunai Pattu	Manmunai Pattu	Bt/Bt/Thalankudath Sri Vinayagar Vidyalayam		Tamil	Manmunai
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Karuveppankerny Vipulananda College		Tamil	Manmunai
Batticaloa	Manmunai Pattu	Manmunai Pattu	Bt/Bt/Arapattai Notary Moothathambay Vidyalayam		Tamil	Manmunai
Batticaloa	Eravurpattu	Eravurpattu 1	Bt/Bt/Eravur Vipulanandha Vidyalayam		Tamil	Eravurpattu
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Joseph Vaz Vidyalayam		Tamil	Manmunai
Batticaloa	Manmunai North	Manmunai North	Bt/Bt/Kallady Velur Srisakthi Vidyalayam		Tamil	Manmunai

Figure 4: Google sheet 2

2.5 Create interfaces of web site

We created basic interfaces using html CSS and Bootstrap.

2.5.1 Login Page

Users who have an account can login using email or phone number and password.

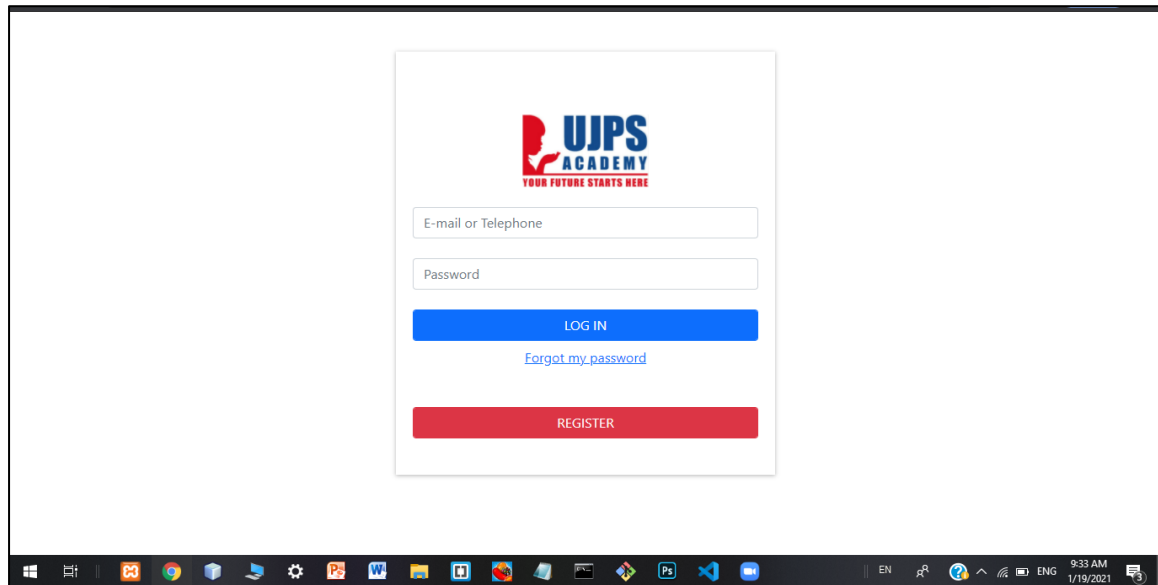


Figure 5: Login interface

2.5.2 Sign up Page

User can register as a student or a teacher or a other. User must select the on of the role from this.

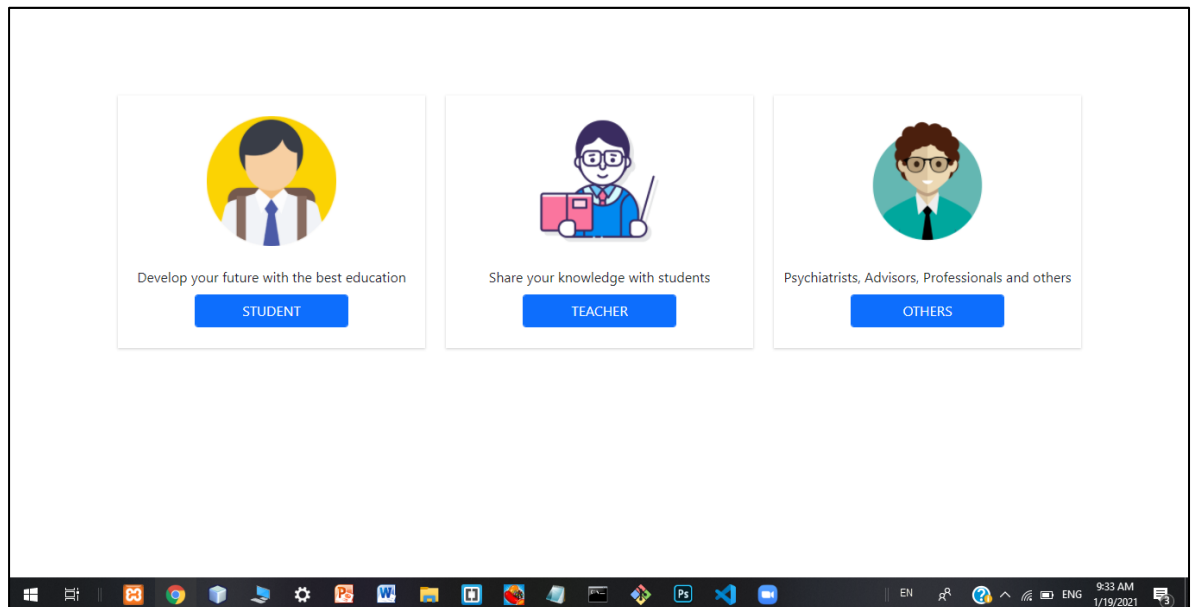


Figure 6: Sign Up interface

The image displays a 'Student Registration' form. The form is centered on a white background and contains several input fields: 'First Name', 'Last Name', 'Email or Telephone', 'Password', and 'Confirm Password'. Below these fields is a checkbox labeled 'Agree to Continue'. At the bottom of the form is a prominent blue button labeled 'REGISTER'. The form is presented within a browser window on a Windows desktop, with the taskbar visible at the bottom showing the time as '9:33 AM 1/19/2021'.

Figure 7: Registration interface

2.5.3 Forgot password page

Created forgot password page interface and forgot password function using local data base and made data base connection using php.

User can go to forgot password page and enter email address then user can get email with link of reset password page and auto generated code.

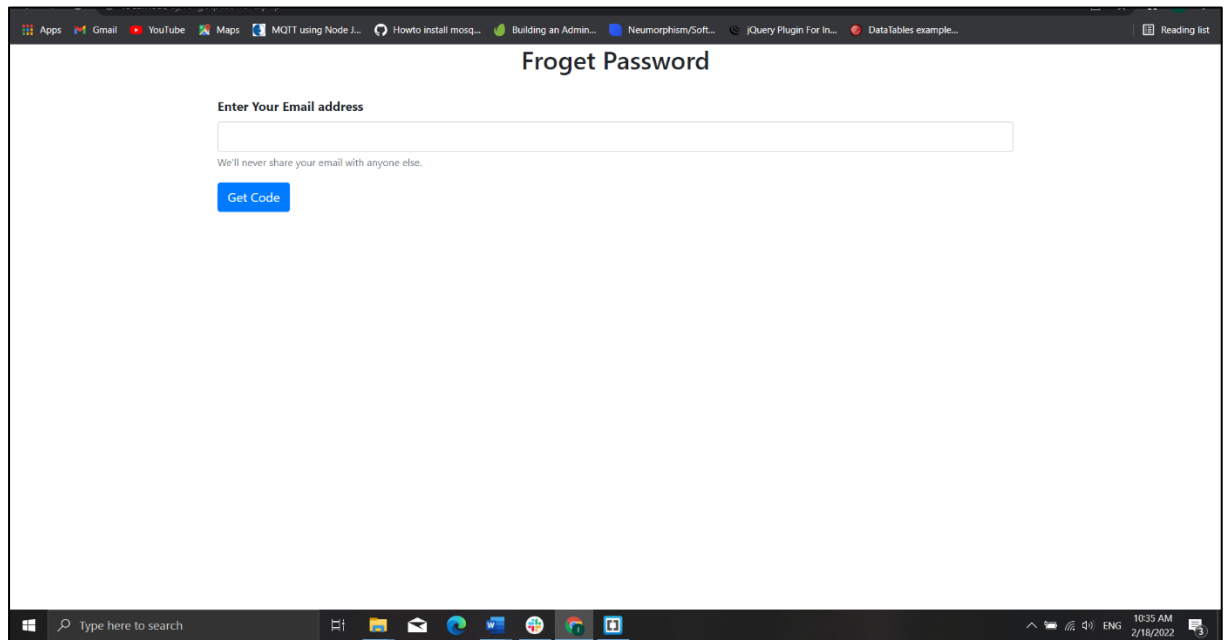


Figure 8: Forgot password interface

2.5.4 Reset password page

Created Reset password page interface and Reset password function using local data base and make data base connection using php.

User can generate a new password using this.

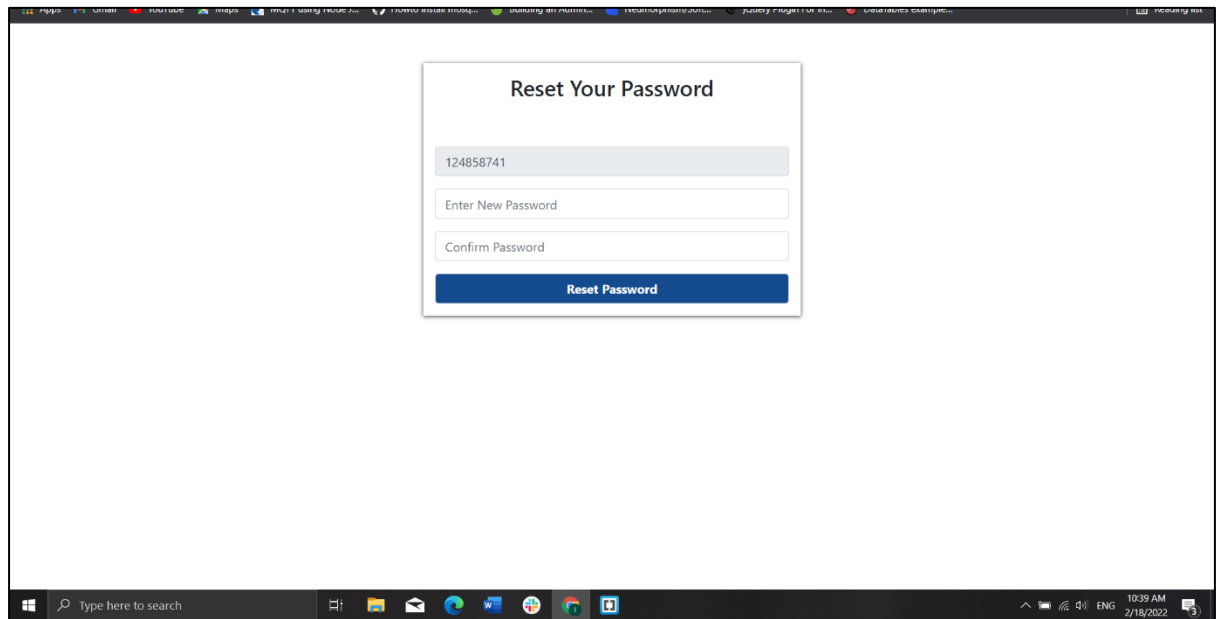


Figure 9: Reset password interface

2.5.5 Home page

Created home page, using html, CSS and Bootstrap. Created slide bar in the home page.

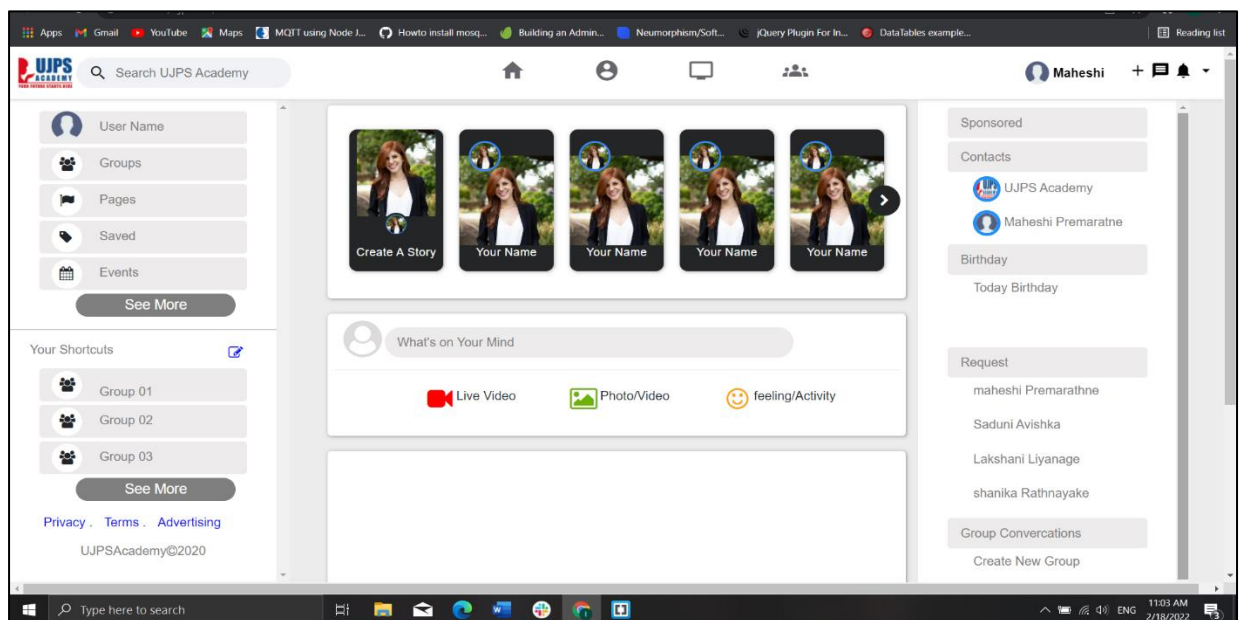


Figure 10: Home interface

2.5.6 Group page

Created group page, of the home page.

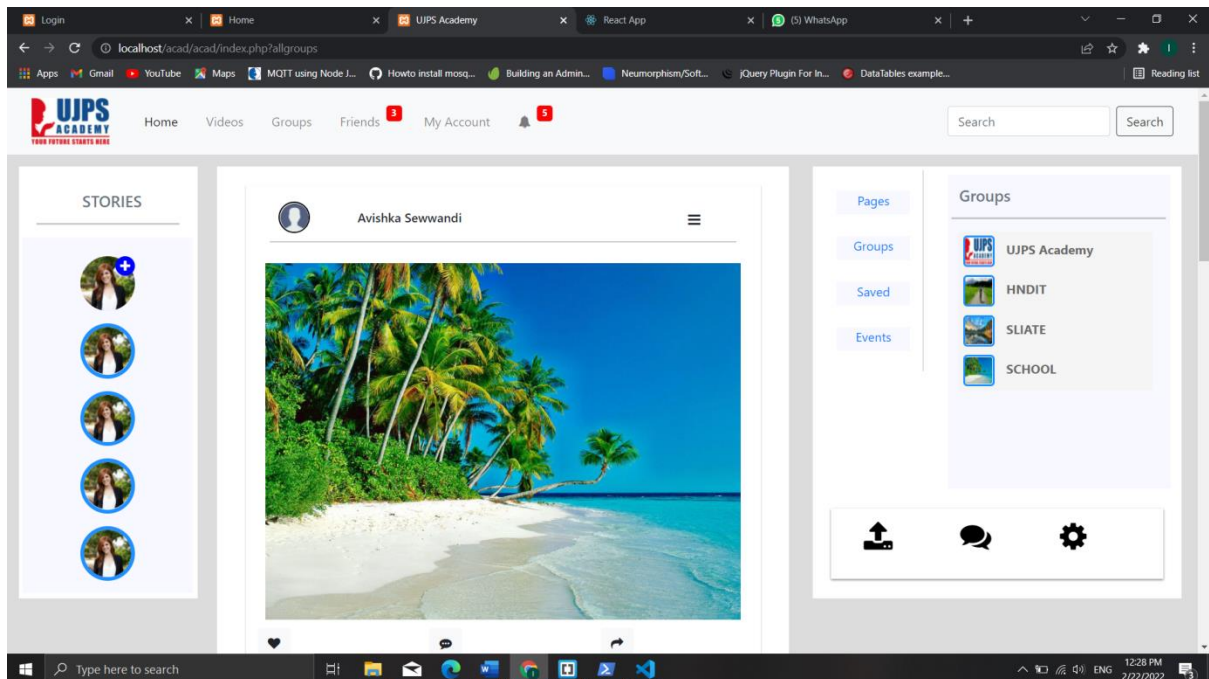


Figure 11: group interface

2.5.7 Edit Profile

User can edit their profile and add their details using theses interfaces

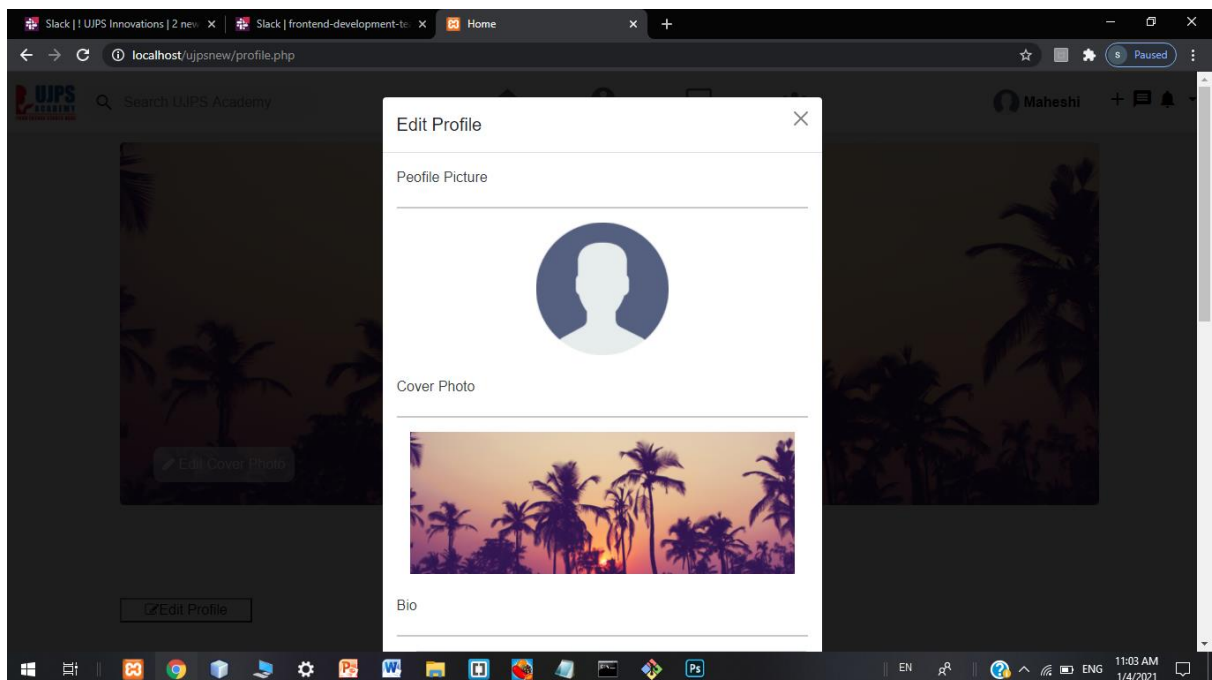


Figure 12: Edit Profile interface

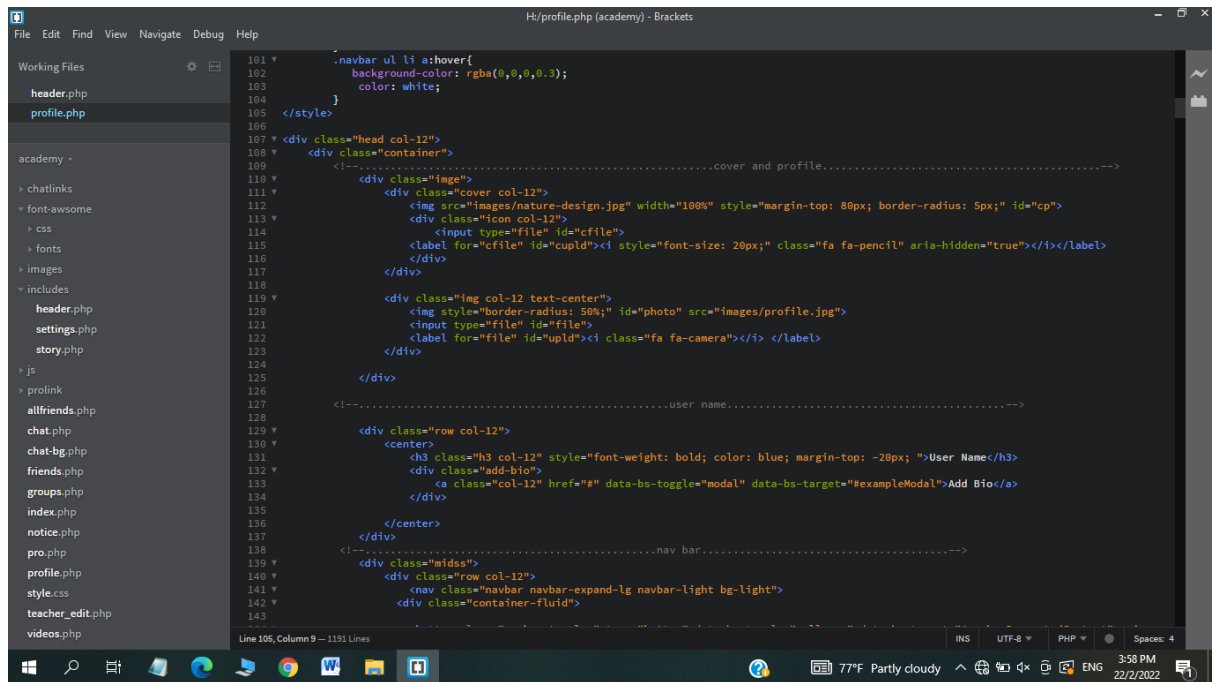


Figure 13: Edit Profile interface code

```

<!--.....add bio.....-->

<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-
labelledby="exampleModalLabel" aria-hidden="true">
<div class="modal-dialog">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title" id="exampleModalLabel">Add Something about
yourself.</h5>
<button type="button" class="btn-close" data-bs-dismiss="modal" aria-
label="Close"></button>
</div>
<div class="modal-body">
<div class="bio">
<textarea name="" id="" cols="55" rows="4" placeholder="Add
Something about yourself.." ></textarea>
</div>
</div>
<div class="modal-footer">
<button type="button" class="btn btn-secondary sm" data-bs-
dismiss="modal" style="width:100px;">Close</button>

```

```
                <button      type="button"      class="btn      btn-primary      sm"
style="width:100px;">Save</button>
```

```
    </div>
```

```
  </div>
```

```
</div>
```

```
</div>
```

The image displays three identical form interfaces side-by-side, each for adding details of a different person: Father, Mother, and Guardian. Each form is titled 'Add [Person's Name] Details' and includes a close button (X) in the top right corner. The forms contain the following fields: Full name, Name with initials, Date of birth, NIC, Relationship, Telephone, Email, and a file upload section with 'Choose File' and 'No file chosen' buttons. At the bottom of each form are 'Cancel' and 'Update' buttons.

Figure 14: Add details interfaces

2.5.8 Creating interfaces using react

Project manager advised us to convert created interface in to react project.

- First, we installed Node js
- Next installed react using a terminal (Windows Command Prompt or PowerShell). By giving “npx create-react-app my-app” this command.
- Opened project “npm start” using this command in project folder
- Created react component and add our interfaces in to react components

Login page in react

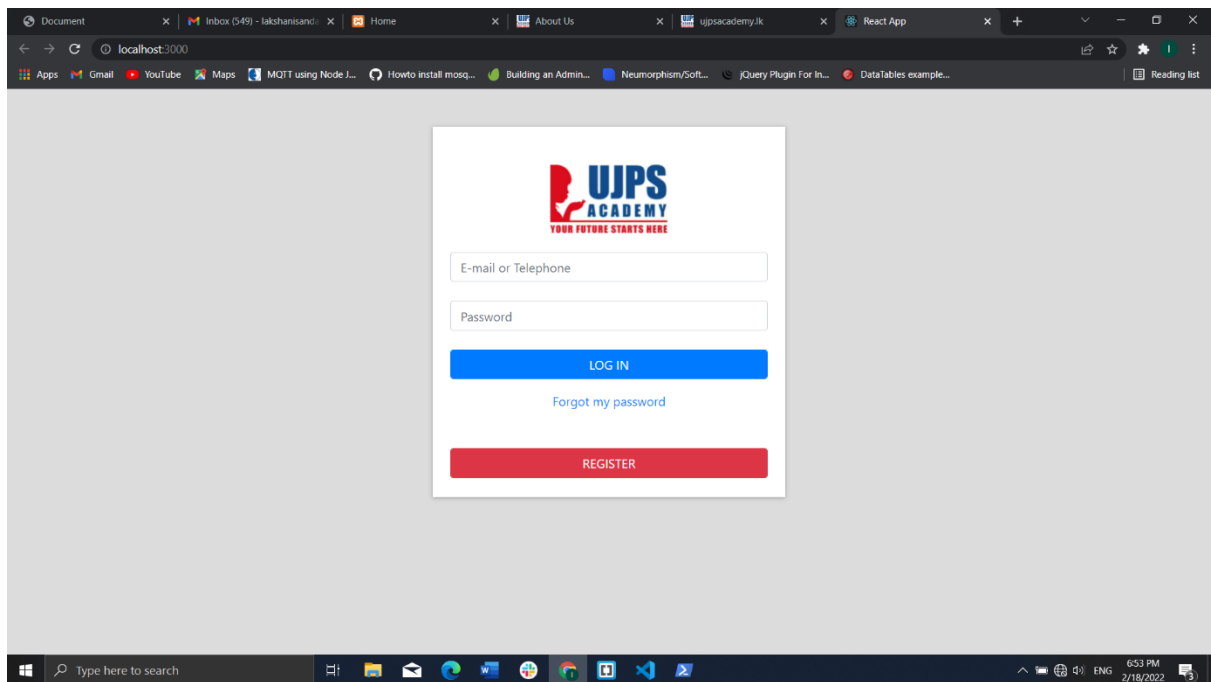


Figure 15: React Login interface

Profile in react

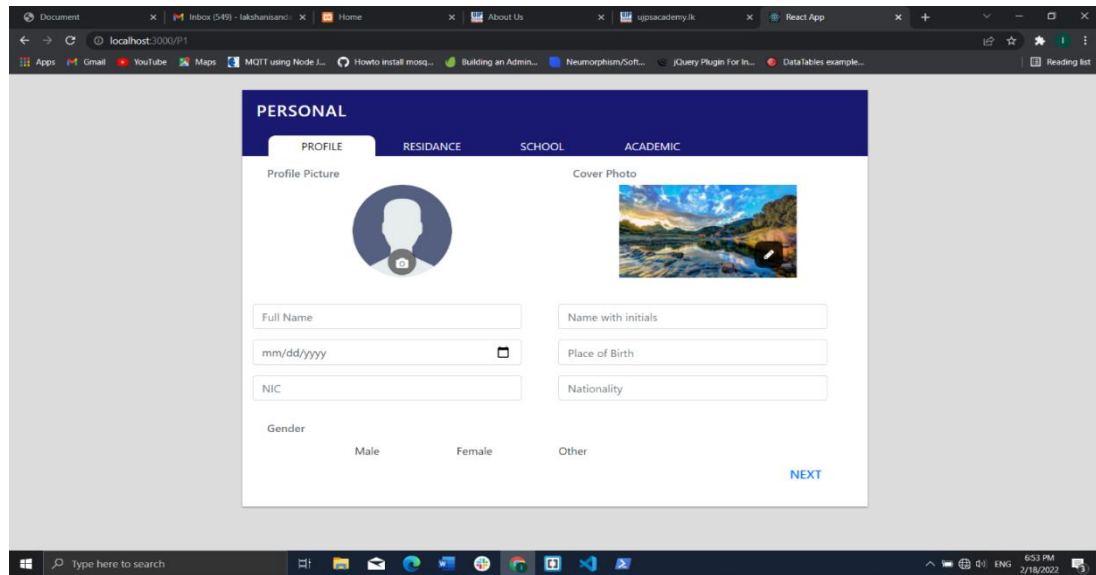


Figure 16: React profile interface

2.5.9 Creating interfaces using Figma

We started creating interfaces using figma. It is easy and faster designing tool. Figma is a vector graphics editor and prototyping tool which is primarily web-based, with additional offline features enabled by desktop applications for macOS and Windows. Especially easy for work with group members.

Then, we started creating interfaces as a team in figma.

First, created an account in figma and added group members

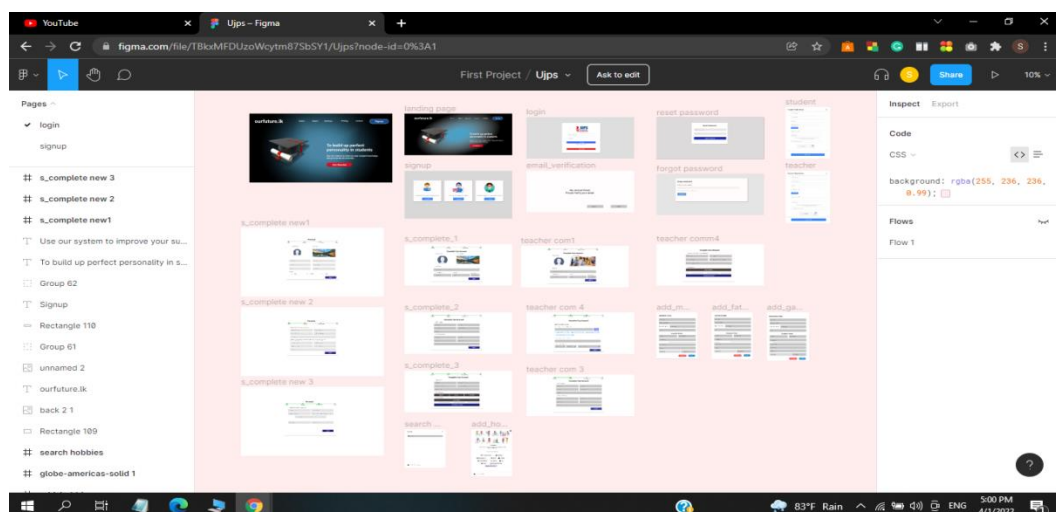


Figure 17: Figma interfaces

Landing page

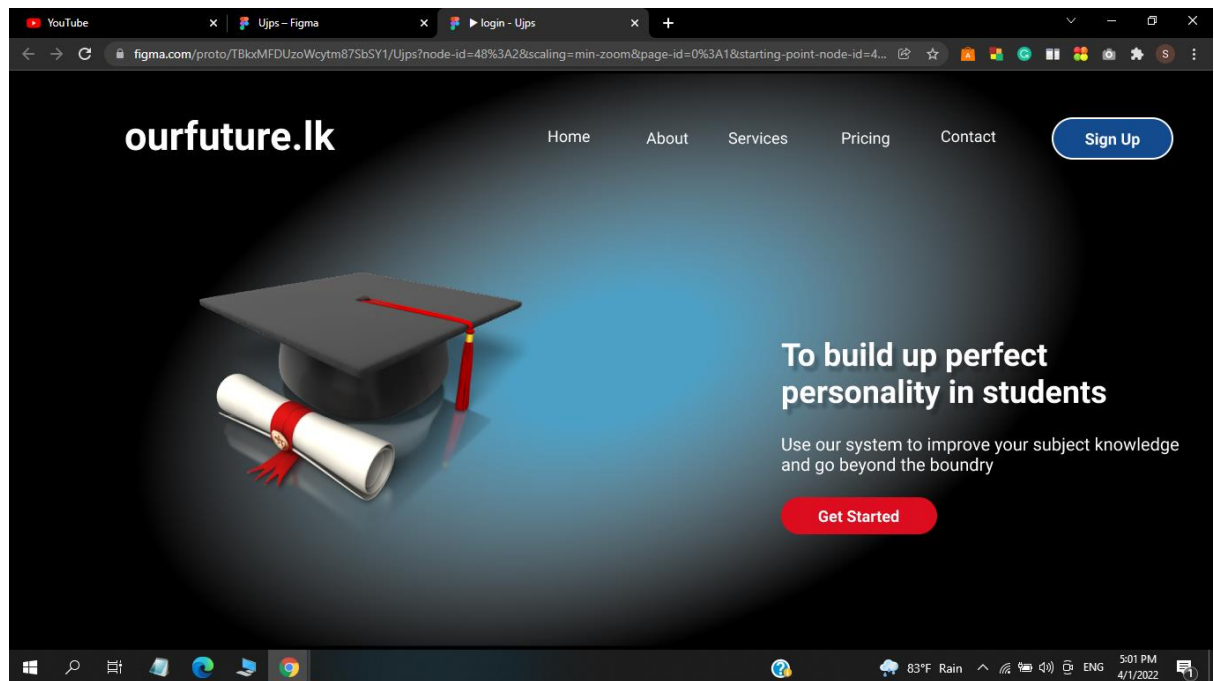


Figure 18: Figma Landing page

User Profile

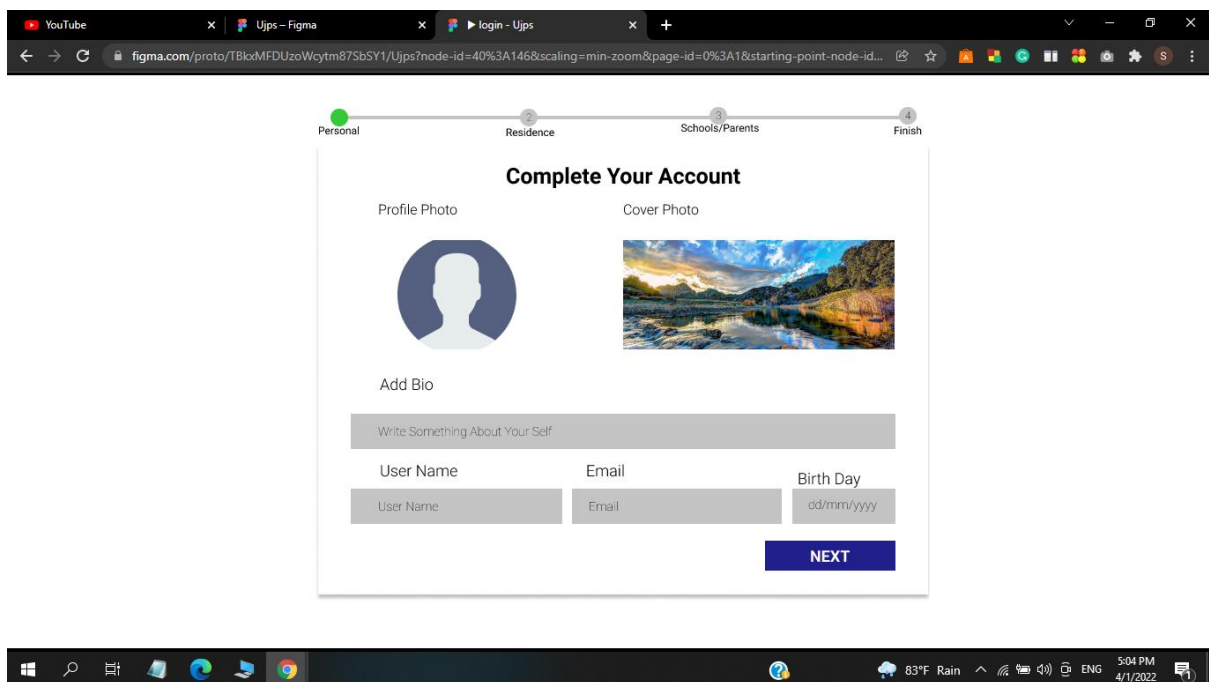


Figure 19: Figma User account interface 1

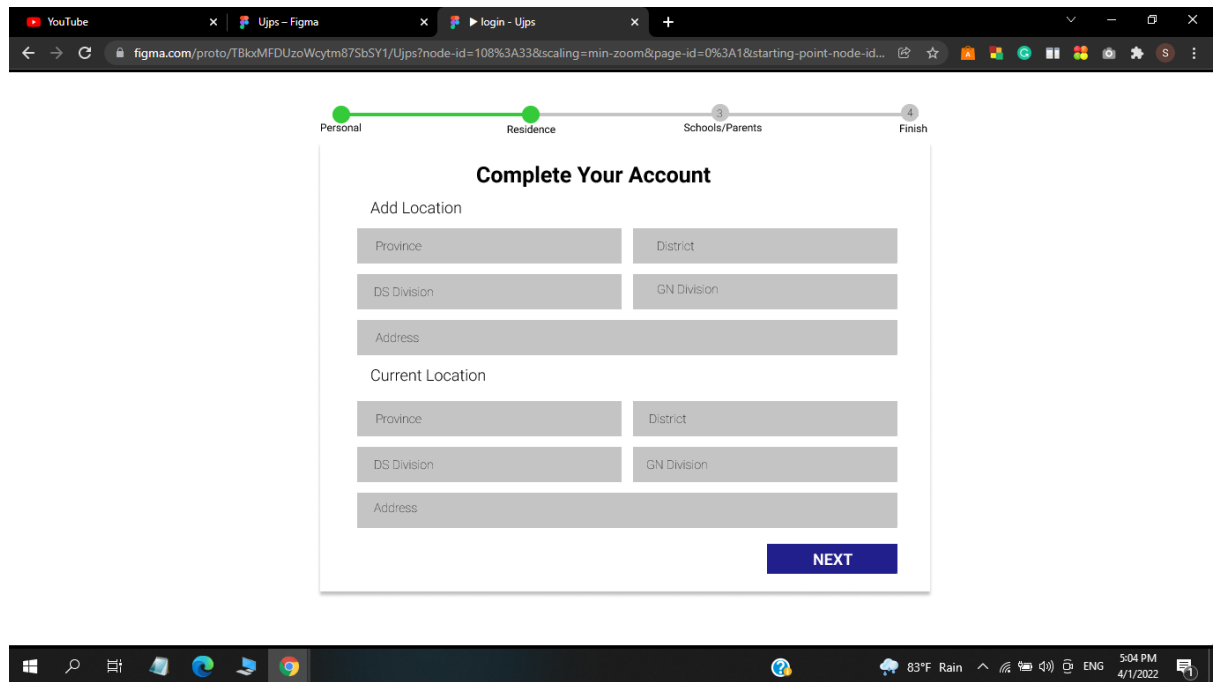


Figure 20: Figma User account interface 2

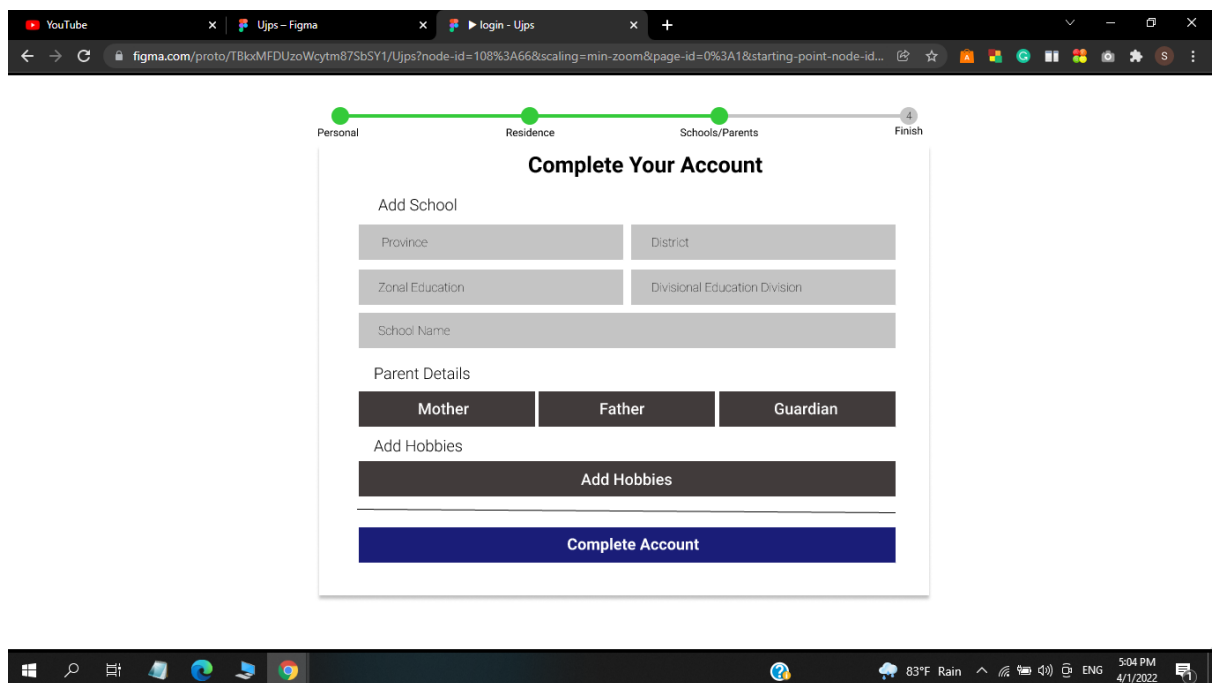


Figure 21: Figma User account interface 3

2.5.10 Create data base table using diagrams

We logged in to the CPanel and created tables in the data base using diagrams.

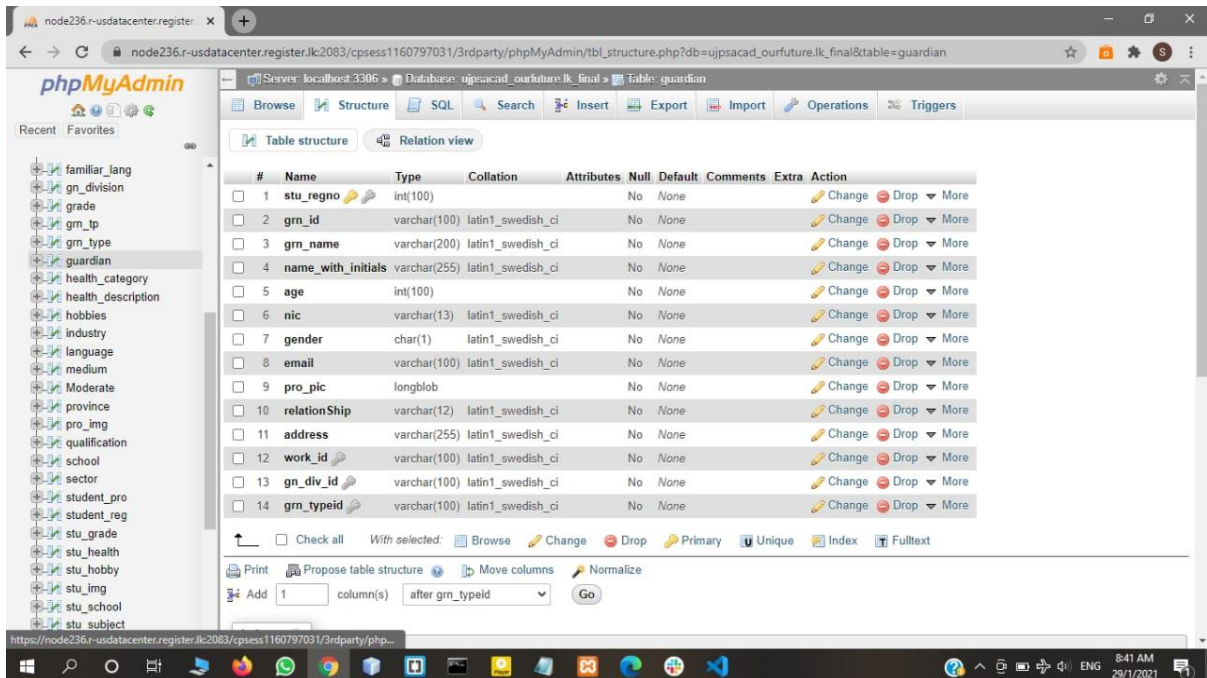


Figure 22: Student registration table

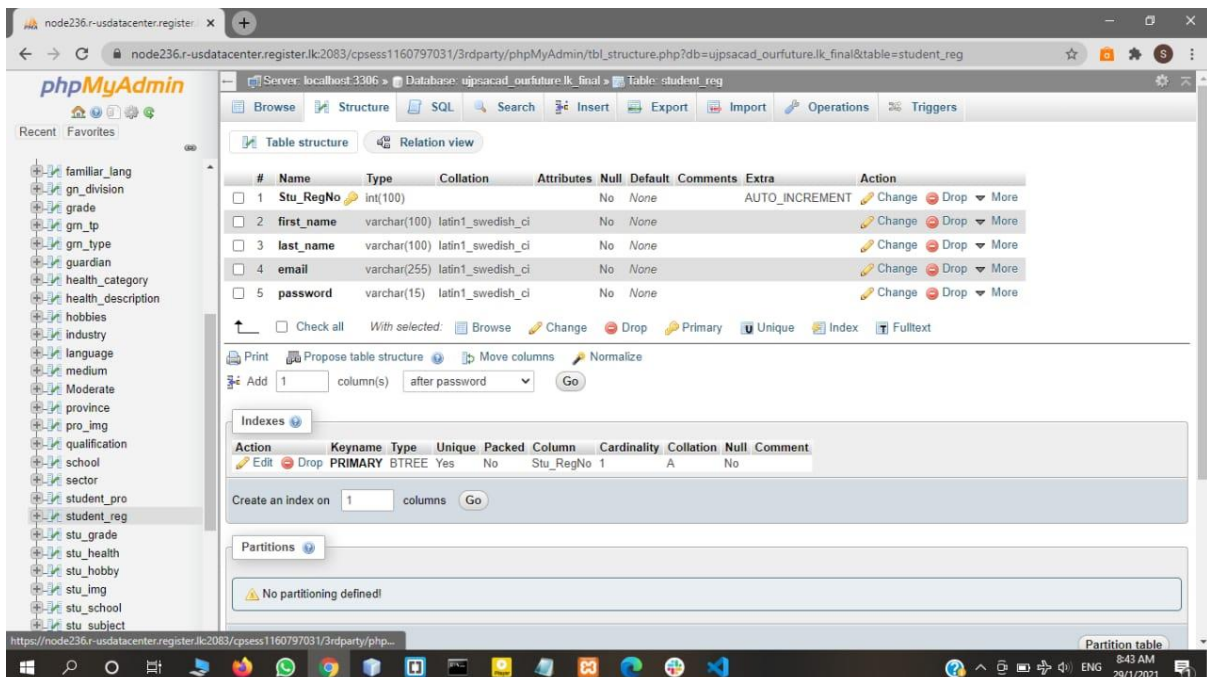


Figure 23: Student health table

Chapter 03 – Conclusion

As a HNDIT student, it was an emphasizing opportunity for me to identify how the real industrial environment looks like. As a student, obtaining such experiences will definitely help to extend my career path in ICT field so I was very much fortunate enough to be selected as an intern of UJPS Academy Pvt Ltd. Within these 6 months of training period, I was able to gain very important knowledge on modern ICT and business solutions. I hope this would be very much helpful to develop my career path in future.

In addition to my technical experiences I was able to gain some common and realistic features and experiences of a working environment, things like working in a team, how to interact properly with others, how to work under senior and executive staff and so on. Most importantly, I have much technical knowledge about work. I was able to explore how each job roles look likes. I was new to the industrial level as a fresh I had to face several problems at that time regarding new technology, standards and design patterns to be used at the industrial. So getting those standards and industrial tool will be a huge advantage to my future career.

My supervisor and the staff did very well in supporting me their proper guidance made me impressed and I was lucky enough to have such a valuable and friendly staff around me. They were very much keen on sharing their knowledge and experiences with fresh like me. They kept encouraging me to learn new things and most importantly it was an opportunity to learn through mistakes and do the right things.

As an information technological student, my hope is to reach the maximum position of the ICT industry and be among the best ICT professions in the future where my educational and professional qualifications will be used for the betterment.

I would like to express my gratitude for every person who guided and helped me for my betterment. Finally, being grateful and thanking SLIATE and ATI for being with us. I thank for NAITA to giving me a training opportunity as a national apprentice, and Thanking UJPS Academy team for all the proper guidance throughout this 6 months' period.

3.1. About training experience

I learnt how to design front-end with various technologies. I mostly engaged in the company were very helpful for me to improve my knowledge. I have learnt about some common thing like how to work as a group, how to build relationships between each other, how to work under the different kind of supervision levels. The internship program was a great opportunity that I have engaged at the UJPS Academy (Pvt) Ltd Company.

Strengthens

- Finished the task quickly
- Work with group members with friendly
- Learn quickly new technologies
- Apply new technologies to our project quickly
- Achieve target in given time period

Weakness

- Online working situation (Couldn't meet physically)
- Debugging Errors
- How to fixing some errors in PHP
- Typing speed is very slow
- Difficult of understand Network

3.2. Observation and Comments.

I gained lots of knowledge and improved my technical skills as well. I was encouraged & guided to learn new technologies, new theories and how to work hard with much dedication. Even though I had got much experience of work with that knowledge in the real-world industry.

Another thing is I was new to the industrial level and I had to face some problems regarding the new technology, standards and design patterns to be used at the industrial level. So learning those standards and the industrial tool will be a huge advantage to my future career.

3.4. Evaluation.

In conclusion, I can say that I am satisfied with the training that I gained through the industrial training program. I have become a more skillful and knowledgeable person, and I have learnt to face challenges in a rather positive way.

I have a good understanding of the working environment of the communication and IT industry now. Besides, I witnessed how an organization proceeds based on their vision, mission and code of conduct and management hierarchy. I also understood the value of setting up high working standards and working based on a highly elaborated plan.

3.5. Reference

1. Ujpsacademy.lk
2. www.wikipedia.org
3. www.php.net
4. <http://www.w3schools.com>
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