Creating Web Application

COS10011

Semester 1, 2022

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Munaamullah Khan	102765631

Table of Contents

Assignment 1

1. Introduction

   Grape is a gadget provider for the people of Pakistan. It provides the people with the latest next generation technology products ranging from mobiles to even music accessories having many devices for different price ranges

   1.1   Scope of the website

   This website allows the audience to browse through all our products with their specifications and all the details. We also provide honest reviews from our previous customers.

   1.2   Intended audience

   It can be used by people of any age and any class as the website is simple and the products, we have are ranging from high prices to all sorts of budget friendly gadgets as well.
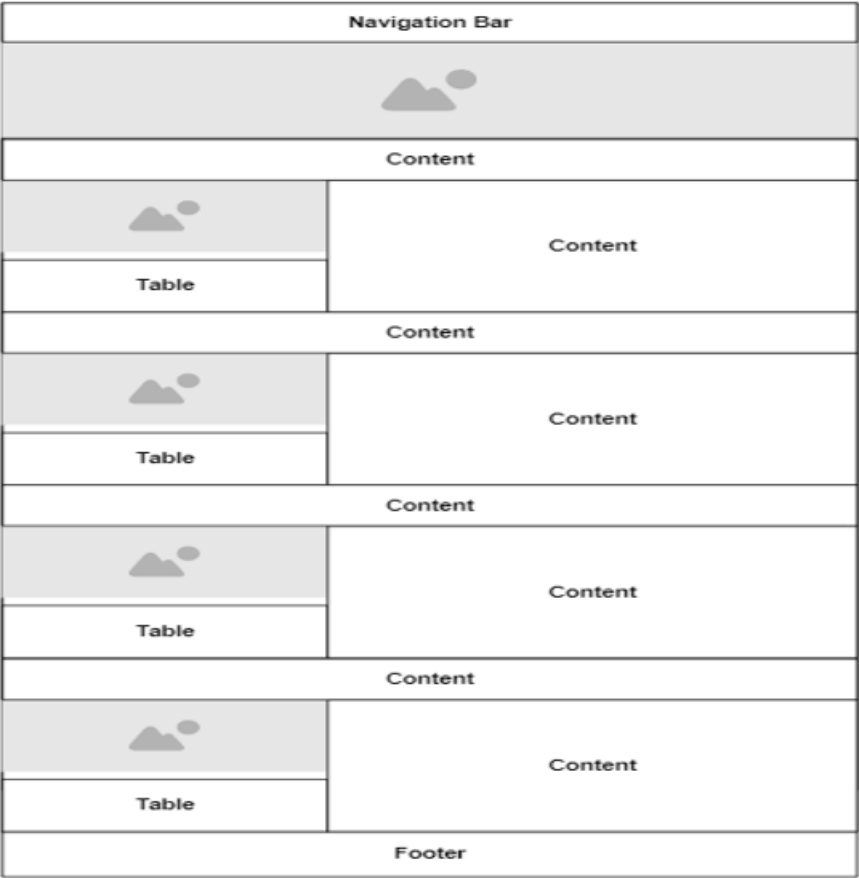
2. Webpage Design and Structure

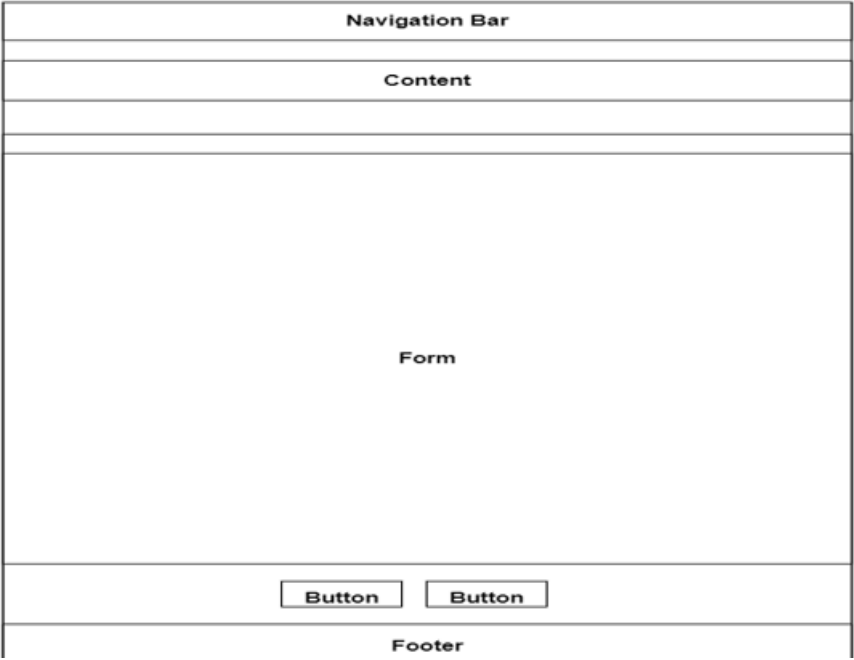   2.1   Website Layout Mock ups
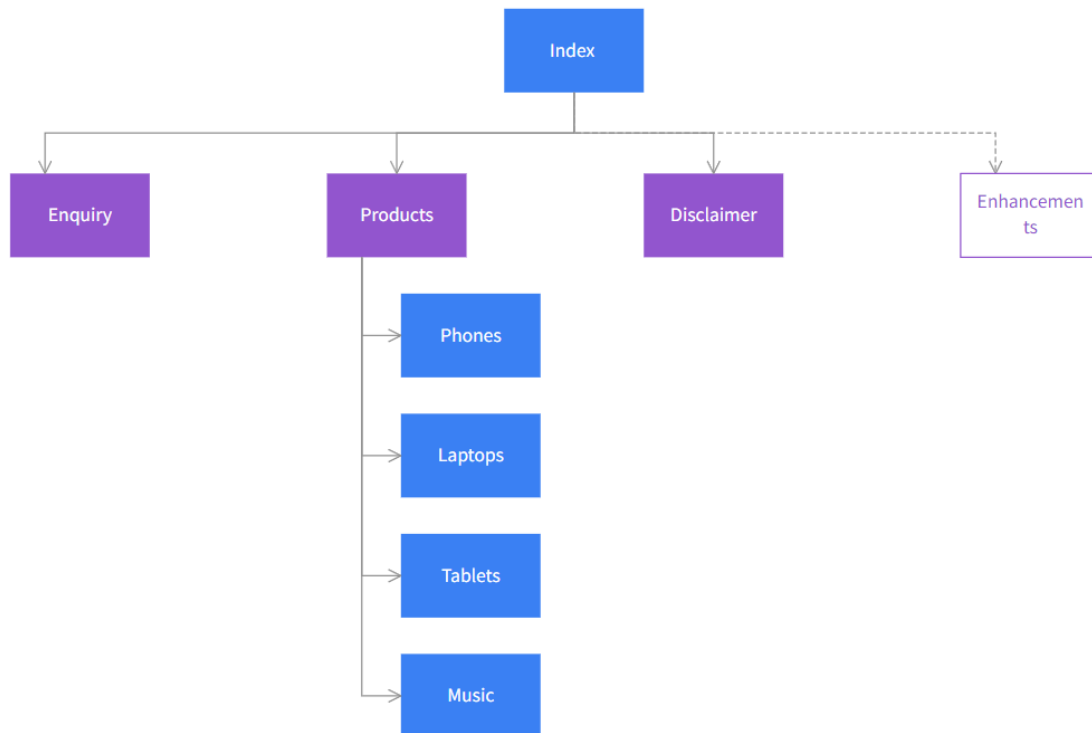
   Index page:

Service Page

Navigation Bar

Content

	Content
Table	

Content

	Content
Table	

Content

	Content
Table	

Content

	Content
Table	

Footer

Enquiry Page

Navigation Bar
Content

Form

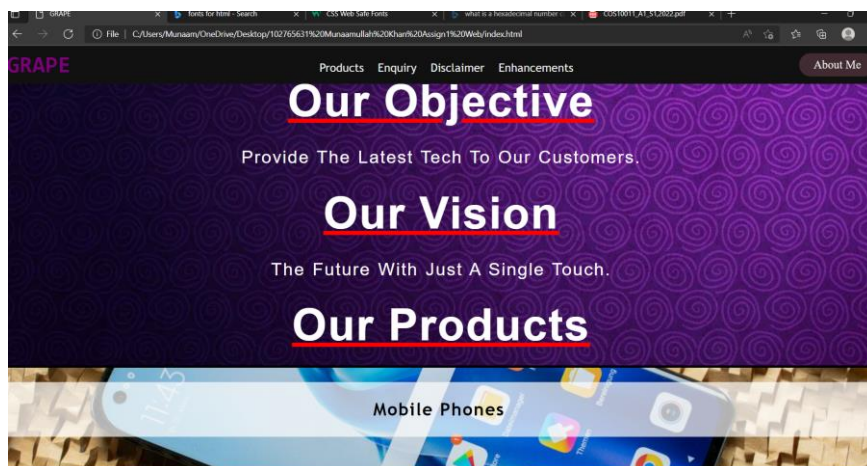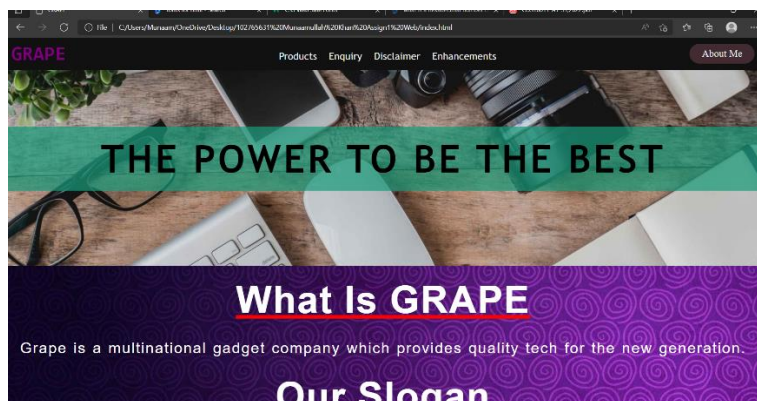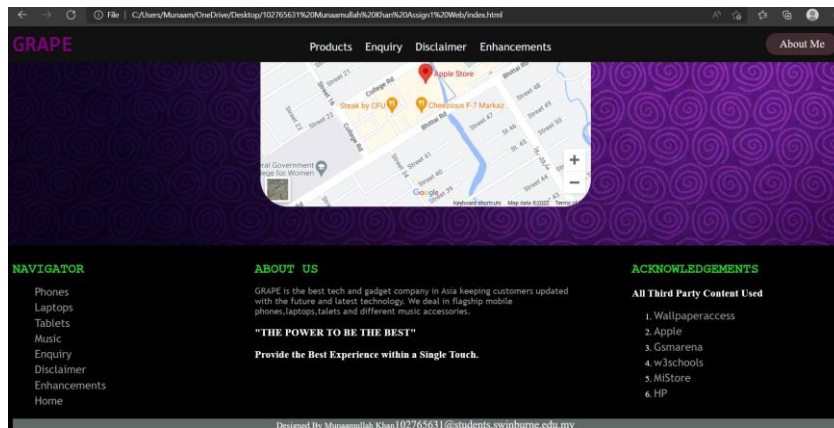| Button	Button

Footer

About Me

2.2   Website Structure
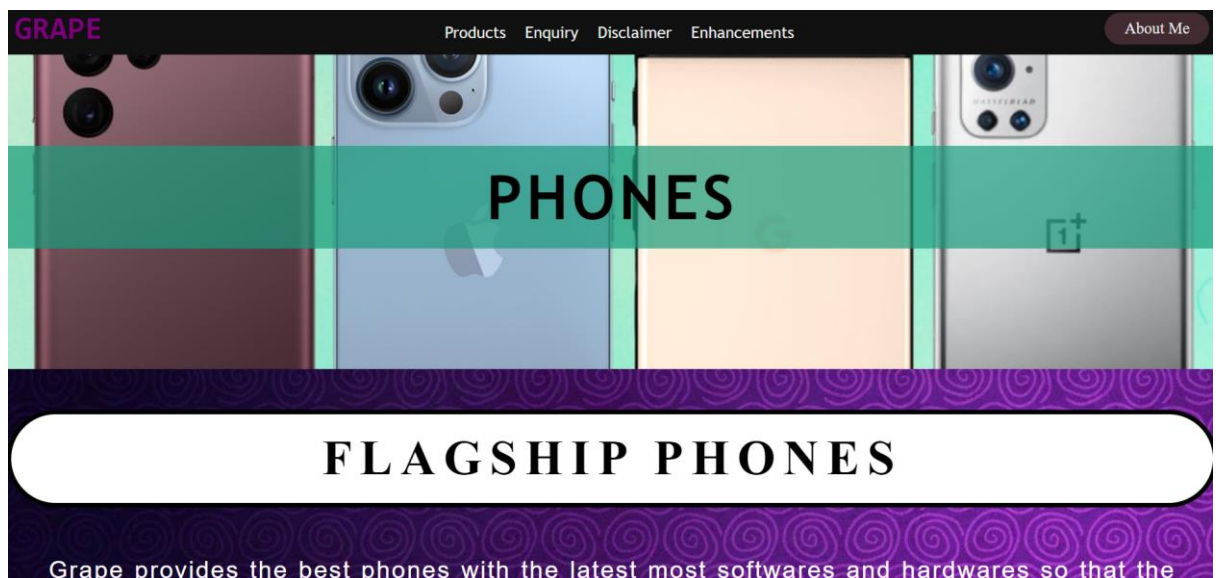
3. End Product

3.1 Actual User Interface

SOME FROM THE HOME PAGE

A product page as all others have same design

GRAPE PRO MAX

The most expensive and the most powerful of our phones

Review

This big-selling phone looks expensive to some but the way I see it no phone can be compared to this device and I believe this is worth every ruppee.

Asad Khan

Specifications	
Screen Size	6.67 inches
Battery	5000mah

Sensors	Face ID, accelerometer, gyro, proximity, compass, barometer
Sim	Single SIM (Nano-SIM and/or eSIM)
Price	Rs200,000

GRAPE NOTE 11

Our most running mobile phone for andriod lovers.

Review

I am a buisiness man and a regular customer of Grape. This is by far the most powerful and

---

GRAPE REDMI 10

This is our android phone which has one of the best latest features but is pocket friendly and a proper budget phone.

Review

Just want to thank grape for launching a budget friendly mobile as it enables me and alot of people to experience the high quality softwares while staying in our spending range.

Specifications	
Screen Size	6.5 inches
Battery	4500mah
Software	Android 10

GRAPE

Products Enquiry Disclaimer Enhancements

About Me

GRAPE MINI

This device was specifically designed for the customers who prefer compact and small phones. It has all the features of a flagship model and the only difference is that it is compact.

Review

Amazing device especially for people who prefer compact devices and I am so happy and amazed to see a phone which perfectly fits my size requirements.

Specifications	
Screen Size	4.67 inches

GRAPE × | fonts for html - Search × | CSS Web Safe Fonts × | what is a hexadecimal number × | COS10011_A1_S1,2022.pdf × | +

File | C:/Users/Munaam/OneDrive/Desktop/102765631%20Munaamullah%20Khan%20Assign1%20Web/phone.html

GRAPE

Products Enquiry Disclaimer Enhancements

About Me

Battery	3000mah
Software	Ios15
Display Type	Super Retina XDR OLED, 60Hz, HDR10, Dolby Vision, 800 nits (HBM), 1000 nits (peak)
Main Camera	8 MP, f/1.5, 26mm (wide), 1.9µm, dual pixel PDAF, sensor-shift OIS
Memory	128GB 6GB RAM,
Colors	Grey,Red,White
Sensors	Face ID, accelerometer, gyro, proximity, compass, barometer
Sim	Single SIM (Nano-SIM and/or eSIM)
Price	Rs80,000

Aima Ali

NAVIGATOR

Phones
Laptops
Tablets
Music
Enquiry
Disclaimer
Enhancements
Home

ABOUT US

GRAPE is the best tech and gadget company in Asia keeping customers updated with the future and latest technology. We deal in flagship mobile phones,laptops,talets and different music accessories.

"THE POWER TO BE THE BEST"

Provide the Best Experience within a Single Touch.

ACKNOWLEDGEMENTS

All Third Party Content Used

1. Wallpaperaccess
2. Apple
3. Gsmarena
4. w3schools
5. MiStore
6. HP

Enquiry Page

Disclaimer

DISCLAIMER

Greetings

This website is created mainly for educational and non-commercial use only. It is a partial fulfilment for completion of unit COS10011 - Creating Web Applications offered in Swinburne University of Technology, Sarawak Campus for Semester 1,2022.

NAVIGATOR

Phones
Laptops

ABOUT US

GRAPE is the best tech and gadget company in Asia keeping customers updated with the future and latest technology. We deal in flagship mobile phones,laptops,talets and different music accessories.

ACKNOWLEDGEMENTS

All Third Party Content Used

1. Youtube

Enhancement Page

GRAPE   Products   Enquiry   Disclaimer   Enhancements   About Me

ENHANCEMENTS

LIST OF THE ENHANCEMENTS

MEDIA QUERY AND DROPDOWN EFFECT
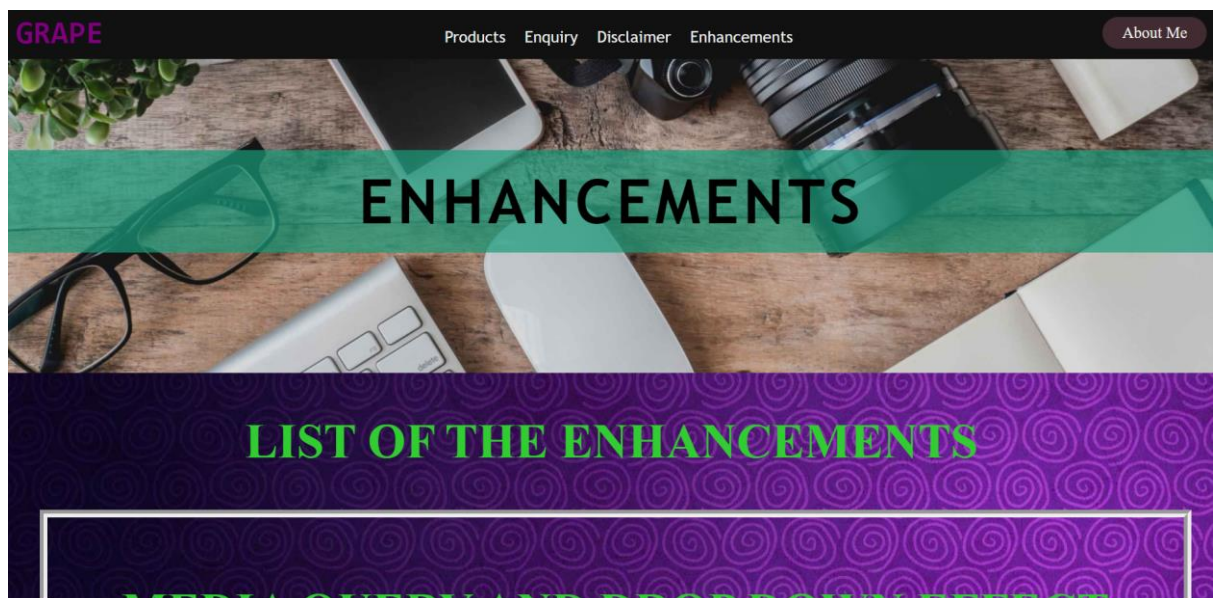
MEDIA QUERY AND DROP DOWN EFFECT

Our webpage can be accesed on all the sorts of devices as we have used the media query technique which cuases the webpage to reduce sizes qhen the resolution would fell under 900px. It has been used in the navigation bar,footer ,tabels and the google maps and youtube.

Apart from this drop down affect has also been used on the products tab on the navigation using css. When we hover over it we can clearly see a drop down of the list of prducts offered by our company.

CODE USED

```
@media only screen and (max-width:900px){
nav ul {
flex-direction:column;
}
```

```
nav ul {
flex-direction:column;
}

nav .link .dropbutton .dropdown-content li
```

AREAS COVERED

- Home
- Phones
- Tablets
- Laptops

LEARNING FROM

W3schools

TRANSITIONS AND 2D TRANSFORM

This has been used on the index page which can we be seen when we hover over the products in the section. The colour changes and there is a zoom in on the text and the picture.
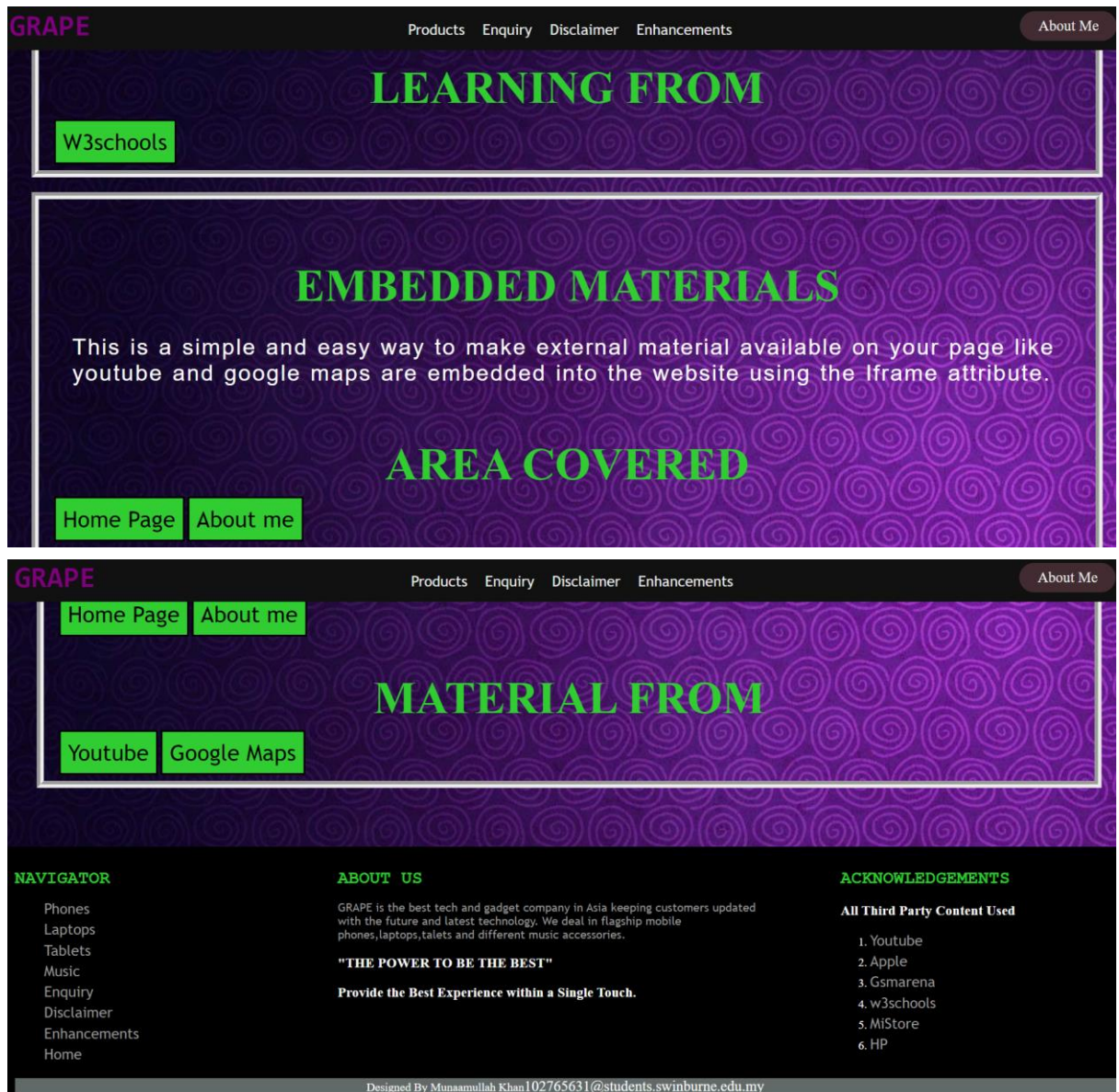
CODE USED

This has been used on the index page which can we be seen when we hover over the products in the section. The colour changes and there is a zoom in on the text and the picture.

CODE USED

```
transition: transform 0.5s;
transform: scale(1.2);
```

AREAS COVERED

Home Page

LEARNING FROM

3.2 Enhancements (if any)

Media Query and Drop-Down Effect

Our webpage can be accessed on all the sorts of devices as we have used the media query technique which causes the webpage to reduce sizes then the resolution would fell under 900px. It has been

used in the navigation bar,footer ,tabels and the google maps and youtube. The drop down affect has also been used on the products tab on the navigation using CSS. When we hover over it we can clearly see a drop down of the list of products offered by our company.
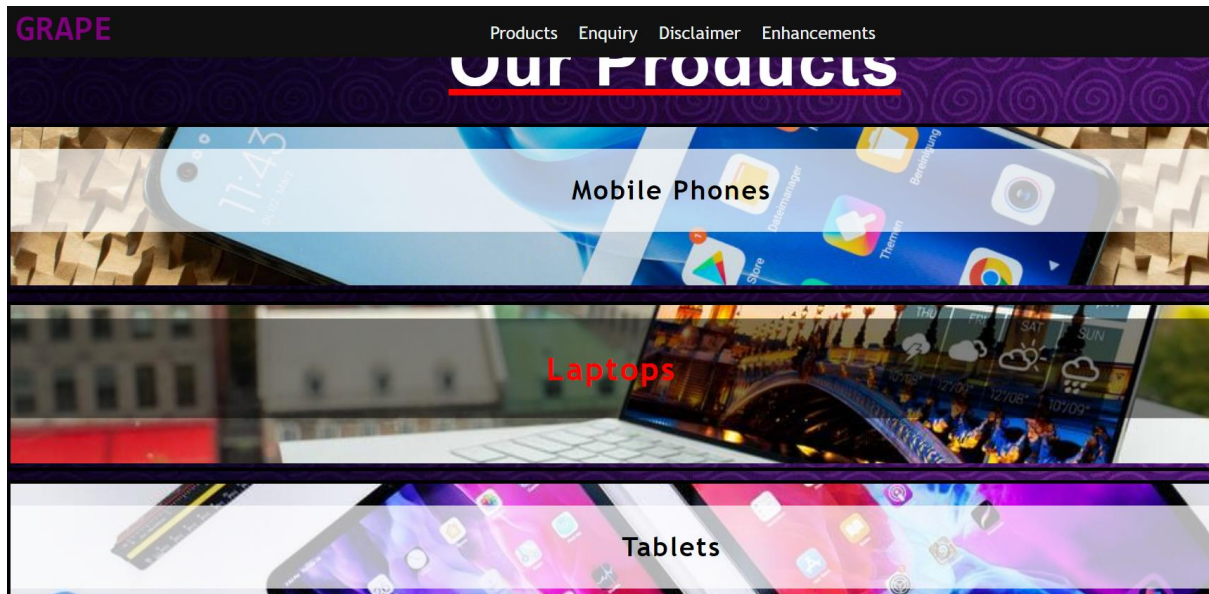
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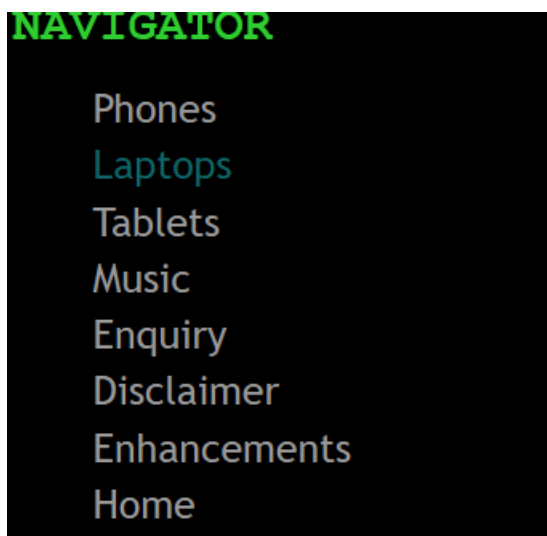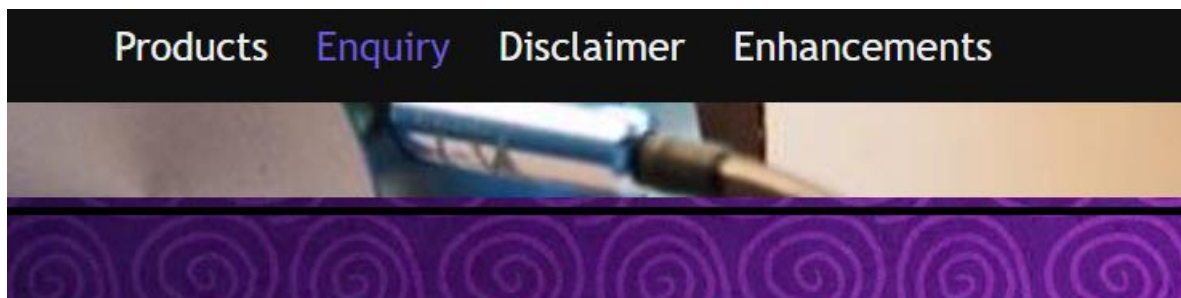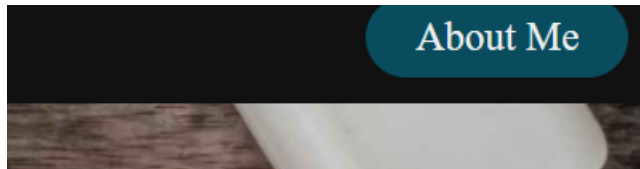
Embedded Materials

This is a simple and easy way to make external material available on your page like youtube and google maps are embedded into the website using the Iframe attribute.
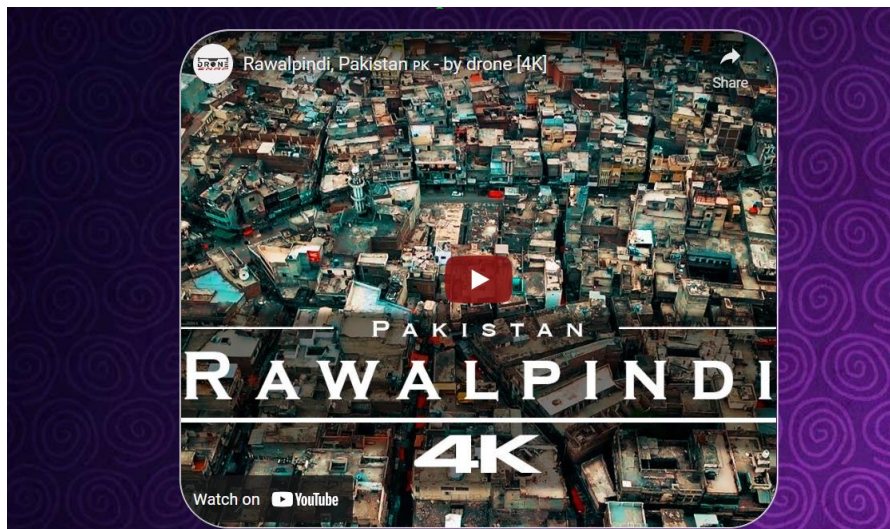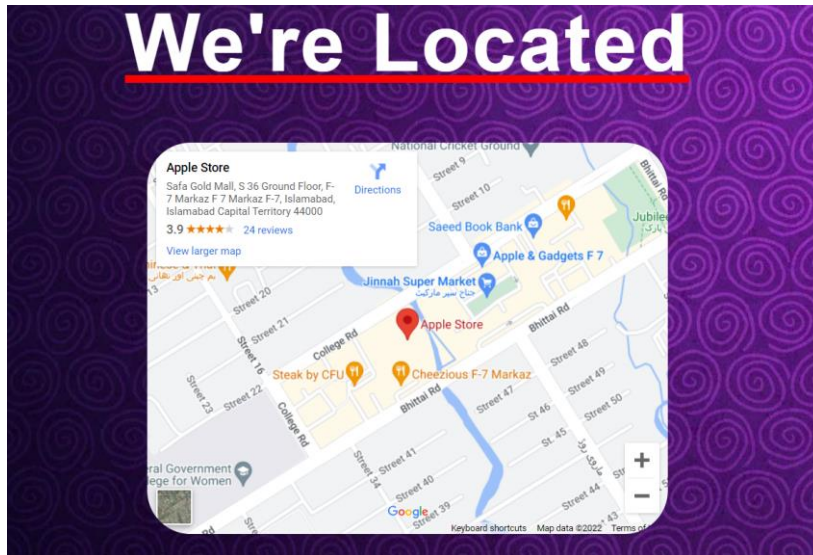
Color change while hover

There is a change in color when we hover over these buttons and texts(links)

Banner on an image

Banner has been used over a picture which is a jpg file. Banner has been used to visually improve the heading text.

Assignment 2

1. Description

Javascript has been used into this website to make it more pleasing to the eye and add more dynamic and attractive functions. The main purpose of the javascript was for the validation on the enquiry form which tells the user to full the form accordingly and doesn't allow the user to submit the from if the requirements are not met. It was also used for data transfer between the same pages and across pages which can be seen on the subject on the enquiry form. Other than this js has been used for the enhancements and a better user experience.

2. End Product

2.1 Enhancements (if any)

I have done 4 total enhancements for a better user experience and an attractive layout.

1. PAGE ON TOP SCROLLER

   All pages have this function. When user scroll down to a any page automatically bottom coner of the right-hand side will appear small red color button called top. When user clicks on it automatically user will be scroll up to the page. And also when user went to the top of the page that red color button will be disappear.This animation and scroll top part mainly running with javascript window.onscroll function. it helps to find out which time that red color button must appear on the right-hand side of the page.


2. LUCKY DRAW

   This part is in the laptop page of product section. in laptop page's bottomm of the page there has a section for lucky laptop winner. It is mainly doing with the javascript time handling function. when user came to the laptop page it calculates the time of user waited in the purticular page. Laptop page's botton section has three images of question mark with blinking the images. suddenly one of that image will turn into lucky winner image. that lucky winner should take a screenshot and send it to the hotline number via whatsapp. The first winner will get a laptop.
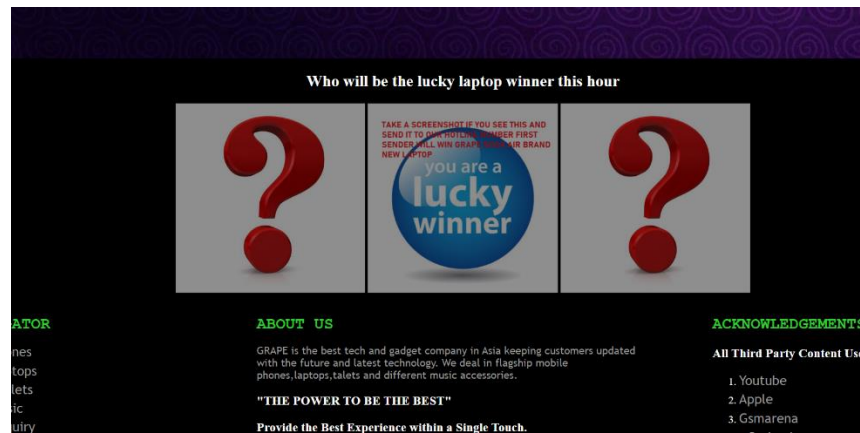
3. SLIDESHOW OF LATEST PRODUCTS

This part is in the index page. This is simply like a slide show. This part mainly done with the javascript. It changes the images in every single second. This gives the user an idea about our latest gadgets.
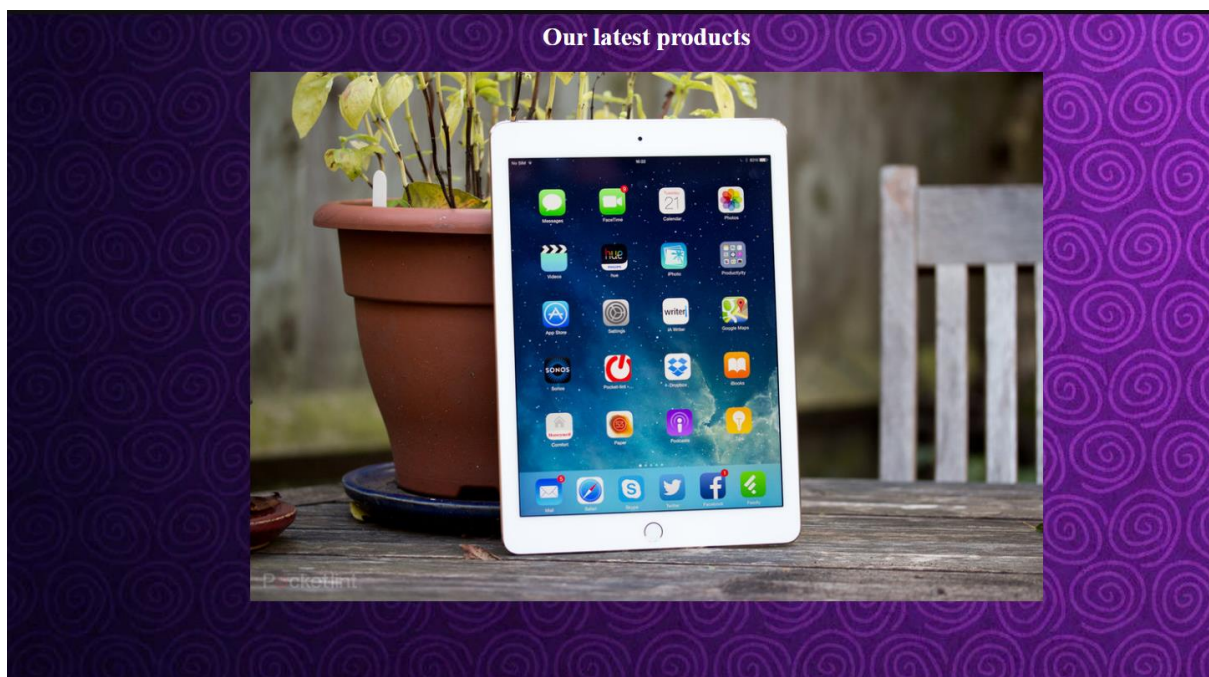
4. Clock

This clock is in the index page. In the main header contains the analog type clock. it is purely design with the javascript. This has been created so the user can track his time and the animation is attractive.

[Describe the enhancements if any]

Assignment 3

1. Description

Web UI testing tool:

According to my understanding and knowledge two tools which can be applied to my website are Selenium and cucumber. There are benefits as well as demerits for both tools.

Selenium has a bit of limitation like it isn't compatible with every browser plus its not very accurate while handling dynamic web elements. It also cannot perform testing for the images. It can sometimes have sync and page load issues and faces difficulty while handling dynamic web elements.

Cucumber supports Behavior Driven development and can be used to test only web-based applications. It uses the Gherkin tool which is simple and easy to use. It's very easily maintained and is widely scalable.

Differences between Selenium and Cucumber:

1. Selenium is a test automation framework whereas Cucumber is not.
2. Selenium is developed in java whereas cucumber is developed in ruby.
3. In selenium syntax errors can be easily found whereas in cucumber they can get unnoticed.

Reference and details taken from
https://www.tutorialspoint.com/differences-between-selenium-and-cucumber

Header, footer and navigation, separate pages for common elements.

```php
1  <?php include 'include/header.php';?>
2  <body>
3      <button onclick="topFunction()" id="myBtn" title="Go to top">Top</button>
4      <?php include 'include/nav.php';?>
```

```php
34
35   <?php include 'include/footer.php';?>
36
37
```

2. MySQL database structure/schema

The table was imported successfully without an error.

Import has been successfully finished, 4 queries executed. (Create_db_tables_V2.sql)

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

CREATE DATABASE `grape_db`;

Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0009 seconds.)

CREATE TABLE enquiry(en_id INT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY, en_firstname VARCHAR(25) NOT NULL, en_middleName VARCHAR(25) NOT NULL, en_lastname VARCHAR(25) NOT NULL, en_dob DATETIME NOT NULL, en_email VARCHAR(100) NOT NULL, en_phone VARCHAR(10) NOT NULL, en_streetaddress VARCHAR(60) NOT NULL, en_city VARCHAR(20) NOT NULL, en_state VARCHAR(20) NOT NULL, en_postalcode INT(5) UNSIGNED NOT NULL, en_service VARCHAR(100) NOT NULL, en_subject VARCHAR(100) NOT NULL, en_startdate DATETIME NOT NULL, en_enddate DATETIME NOT NULL, en_otherInfo VARCHAR(500) NULL);

Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)

CREATE TABLE users(ur_id INT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY, ur_username VARCHAR(25) NOT NULL, ur_password VARCHAR(25) NOT NULL, ur_role VARCHAR(25) NOT NULL);

Edit inline] [Edit] [Create PHP code]

3 rows inserted.
Inserted row id: 3 (Query took 0.0021 seconds.)

insert into users (ur_username, ur_password, ur_role) values ('admin', '123', 'admin'), ('operator', '123', 'operator'), ('owner', '123', 'owner');

Edit inline] [Edit] [Create PHP code]

Mysql database table

0 (1 total, Query took 0.0004 seconds.)

quiry`

e] [Edit] [Explain SQL] [Create PHP code] [Refresh]

umber of rows: 25 ∨   Filter rows: Search this table

	en_id	en_firstname	en_middleName	en_lastname	en_dob	en_email	en_phone	en_streetaddress	en_city	en_state	en_postalcode	en_service	en_subject	en_startdate	en_enddate	en_otherInfo
y ⊖ Delete	1	Munaam	Ullah	Khan	2022-06-16 00:00:00	munaamullahkhan@gmail.com	09090	UsmanBlock	Rawalpindi	Lahore	43434	Laptops-GrapeBookPro	RE:Enquiry on Laptops-GrapeBookPro	2022-06-30 00:00:00	2022-06-14 00:00:00	

With selected: ✏ Edit   ⊞ Copy   ⊖ Delete   ⊟ Export

umber of rows: 25 ∨   Filter rows: Search this table

ations

py to clipboard   ⊟ Export   📊 Display chart   📄 Create view

SQL query

☐ Let every user access this bookmark

query

Process enquiry

View enquiries page

ID	First Name	Middle Name	Last Name	DOB	Email	Phone	Street Address	City/Town	State	Postal Code	Service	Subject	Start Date	End Date	Other Info
1	Munaam	Ullah	Khan	2022-06-16 00:00:00	munaamullahkhan@gmail.com	09090	UsmanBlock	Rawalpindi	Lahore	43434	Laptops-GrapeBookPro	RE:Enquiry on Laptops-GrapeBookPro	2022-06-30 00:00:00	2022-06-14 00:00:00	

## 3. End Product

2.2 Enhancements (if any)

I implemented the user management module:

Implementing user authentication features for business owner / operator / Web site administrator in order to view and manage public enquiry. Create, View, and Delete user from the website. Providing screen shots for proper reference.(STEP BY STEP)

Enhancement3.php used to explain the enhancement feature with a glimpse of code used

Create New User page
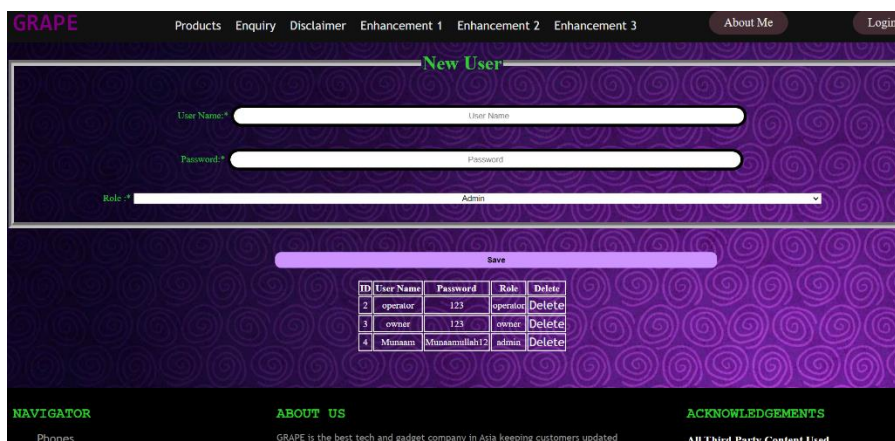
Login Page(Admin)

Admin can either view the enquiries done or can delete or add new user.

Sign out can be used to sign out and head back to the normal webpages.