



FPT ACADEMY INTERNATIONAL
FPT – APTECH COMPUTER EDUCATION

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AskMeMobile Ltd

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September 2020



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Has successfully Designed & Developed

ASKMEMOBILE – E project 2020

Submitted by:

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Date of issue:

October 5th, 2020

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Contents

1	ACKNOWLEDGEMENT	1
2	SYNOPSIS.....	2
3	REVIEW 1	3
3.1	REQUIREMENT SPECIFICATION.....	4
3.2	PROBLEM DEFINITION.....	5
3.3	CUSTOMERS REQUIREMENT SPECIFICATION (CRS).....	5
3.4	ARCHITECTURE & DESIGN OF THE SYSTEM.....	7
3.5	SITEMAP.....	8
3.6	WEBSITE WIREFRAME LAYOUT.....	9
3.6.1	HOMEPAGE.....	9
3.6.2	PRODUCT DETAIL	11
3.6.3	CHECKOUT PAGE.....	12
3.6.4	CONTACT US	13
3.7	TASK SHEET 1.....	15
4	REVIEW 2	16
5	PROJECT SNAPSHOTS.....	17
5.1	Home Page.....	17
5.2	Product details Page	18
5.3	Check out Page:	19
5.4	Contact Us:.....	20
5.5	Footer.....	21
5.6	Responsiveness Test.....	21
5.7	About Us	22
6	SOURCE CODE WITH COMMENT	23
7	USER MANUAL	24
7.1	System Requirements:.....	24
7.2	Step by Step Instructions:	24
7.2.1	Starting Home Page:	24
7.2.2	Using Search bars & Dropdown menu	25
7.2.3	Browsing Products Gallery:.....	27
7.2.4	Product Details Page:.....	28
7.2.5	CTA Buttons – Compare & Download	30
7.2.6	CTA Buttons – Miscellaneous.....	31

7.2.7	Add-to-cart: & Check-out:.....	32
7.2.8	Contact Us	34
7.2.9	Contact Us – Email & Geolocation	34
7.2.10	Footer.....	36
8	DEVELOPER'S GUIDE.....	37
8.1	Home page.....	37
8.1.1	Bootstrap layout.....	37
8.1.2	Logo Animation.....	39
8.2	Top Nav Bar	41
8.2.1	Hamburger Menu.....	41
8.2.2	Navbar Auto hide on scroll.....	44
8.3	Side Panel / Side navbar.....	45
8.3.1	Search Bar & Searching Algorithm.....	45
8.3.2	Drop Down Menus	49
8.3.3	Side Panel Responsiveness on smaller screen.....	53
8.4	Home Page - Hero Banner –	54
8.4.1	Header Text Animation	54
8.4.2	Changing Background Image Animation	57
8.5	Home Page - Main Section.....	59
8.5.1	Main Section – Owl Carousel.....	59
8.5.2	Main Section – Gallery with filter buttons–	63
8.5.3	Main Section - Compare & Download Modals –	65
8.5.4	Main section – Add To Cart & Check Out.....	70
8.6	Side Panel Call To Action Modals.....	71
8.7	Product Details Page	74
8.7.1	Youtube embedded promotional videos.	74
8.7.2	Product detail.....	76
8.7.3	Add To Cart.....	78
8.7.4	Rating modal	81
8.8	Contact Us Page.....	84
8.8.1	Contact Us - Hero Banner –	84
8.8.2	Contact Us – Feedback & Inquiries –.....	86
8.8.3	Contact Us – Geolocation/Google Map.....	89
8.9	Footer.....	90
8.9.1	Footer – Bootstrap Layout.....	90
8.9.2	Footer – Lightbox Gallery	93
8.10	Miscellaneous CSS/Animation Modules.....	97

8.10.1	Hover.css by Ian Lunn.....	97
8.10.2	Pin Construction Animation by Nikolay Talanov	98
8.10.3	Chrome Native Lazy Load	99
9	TASK SHEET 2.....	100
10	CHECKLIST VALIDATION	101
11	REFERENCES	102

1 ACKNOWLEDGEMENT

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We wish to express our gratitude to the e-Project Team at the Head Office in India, who provided us with guidance and instructions. We would like to thank all the staff members at the Center in India for providing us the opportunity to work on this project and offering us their upmost encouragement through out the process.

We would like to express our special thanks of gratitude to our instructor, Mrs. Pham Thi Lanh at the Aptech Computer Education HCMC for her able guidance and support in completing our project. We would also like to extend our gratitude to the staff at the Aptech HCMC office for providing us with all the facility that was required.

Our acknowledgement to several people whom also helped with: the collections of pictures samples, CSS & JS libraries, the preparation of web development, sample code snippets and tutorials and they are all thanked for their contributions. Special mentions goes to the contributors of Bootstrap 4, the contributors and admins for tutorials sites such as W3C school, Tutorialspoint.com, GeeksforGeeks, and many other learning sites.

And Lastly, to our many friends and family, you should know that your support and encouragement was worth more than we can express on paper. Thank you to our moms and dads for breakfasts, lunch and dinners – we could not have finished the project without being provided with love and daily nourishments.

2 SYNOPSIS

ASKME Ltd. Is a Multi National Company providing Information services to General People they have been providing information to people through Telephone calls which could include anything from Pin to Piano. Their major source of income comes from informing the customers about those products first for which ASKME is getting paid for.

The BOD's in their annual general meeting proposed that they should launch a website by the name CELLINFO.com where the user will get all the information about the various cell phones available in the market of any brand on a click of a Button.

You are supposed to create a website for them with the below mentioned requirement specifications: The website is to be developed to provide certain features according to specific requirements by the management.

The website is to be developed for the Windows Platform using HTML5, JavaScript and Geolocation. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

3 REVIEW 1

3.1 REQUIREMENT SPECIFICATION

The Website CELLINFO.com is to be created based on the following requirements:

- 1) The Home Page should be neatly created with proper logo, menu and images.
- 2) A Menu should be created which would categorize all the information about the features provided in the Site For e.g. a Menu for Various Cell phones, a Menu for Features of Cell phones etc. etc. something like that.
- 3) The information should be categorized according to the Brand names of Mobiles like if a User wants to see only Nokia Phones then he click on Some Nokia Link/button and he will see only That Brand phones and so on.
- 4) A Brief summary of features of Individual phones should be displayed on the Web Page along with the Cell phone but detailed Features should be stored in Individual Word documents which can be downloaded or viewed by the User who wishes to see the same.
- 5) A Comparison Web Page should also be there where there is Phone comparisons done with various models of same brand or various models of various brands.
 - The Comparison information should be provided in Tabular format comparing the features of different phones.
 - This information would be for 5 Phones of similar brands and 2 phones of different brands for 1 month and then it will change so for the time being the Page should handle the above requirement.
- 6) The Colour Schemes should be soothing, more of Pastel Colours can be chosen for the same.
- 7) When a particular brand phones are being displayed the background image of the Web page should show the Logo of that brand for e.g. if Nokia Phones are being displayed then that page should have the Logo of NOKIA as the background image and the same in case of other Brands.
- 8) There should be a “Contact Us” page which will have the Address of the Company and the mail address which when clicked will invoke the local mail client from where they can send an email. Address of the Company should be displayed using GeoLocation API (eg. GoogleMaps)
- 9) The information on the mobile phones and all can be picked up from the Sites of Nokia, Samsung etc.
- 10) To avoid creation of html pages you can make use of layers, flash buttons and other components of Dreamweaver for creation of pages.
- 11) The appearance and organization of the site will carry more chances of your selection for getting the contract so both the factors are important to be considered.

3.2 PROBLEM DEFINITION

After analyzing the Queries coming in form various Customers mostly are related to information regarding Cell phones which could be one or all of the follow

- 1) What is the Cell Phone Model Number with XYZ features?
- 2) What are the Features in XYZ cell?
- 3) What is the current price of the XYZ cell phone?
- 4) How is XYZ cell phone Different from ABC phone?
- 5) What is the approximate price of XYZ phone?

And many more...

As you can see there are a lot of queries which cannot be answered online or would be very difficult for the Call executive to explain the entire features of the product which again would consume a lot of Call time of the executives as well.

Our Website should be able to solve this problem by providing an alternative mean for customers to seek out information at their own pace. The website will be referred to as self-serviced website for informational guidance and comparisons.

3.3 CUSTOMERS REQUIREMENT SPECIFICATION (CRS)

1. Client: AskMe Ltd.

2. Objectives:

- Provide a website to display information about products (Cell phones) categorizing product information according to brands and features.
- The website should have soothing color with proper logo and images. A menu to show phone category and provide clickable links. A brief summary of phone features will be show. Users who wish to compare phone features across different brands will be able to link to a comparison table in which 5 phones of the same brand and 2 of different brands will be show on the table.
- Users should be able to download information from the site to their computers. If users wish to send us an email or looking for our physical location, users should be able to do so in “Contact Us” page.
- The keywords are “logo”, “menu”, “images”, “pastel color” “Category”, “Menu for various Cell phones”, “Menu for features of Cell phones”, “Brand”, “Comparison”, “Tabular Information”, “Contact Us”, “Send email”, “Geolocation”....

3. Inputs provided by clients:

- Click on clickable links from menu, or search menu.

- Click to clickable links/images in “Products” session to link to third party websites.
- Click “Compare” buttons for comparison between different phones.
- Click “Download” buttons for downloading doc documents from CELLINFO.com .
- Click “Contact Us” link to link to “Contact Us” webpage.
- Click “send us an email” to send us email.

4. Hardware Requirement:

- A minimum computer system that will help you access all the tools in the courses is a Pentium 166 or better
- 64 Megabytes of RAM or better

5. Software Requirement:

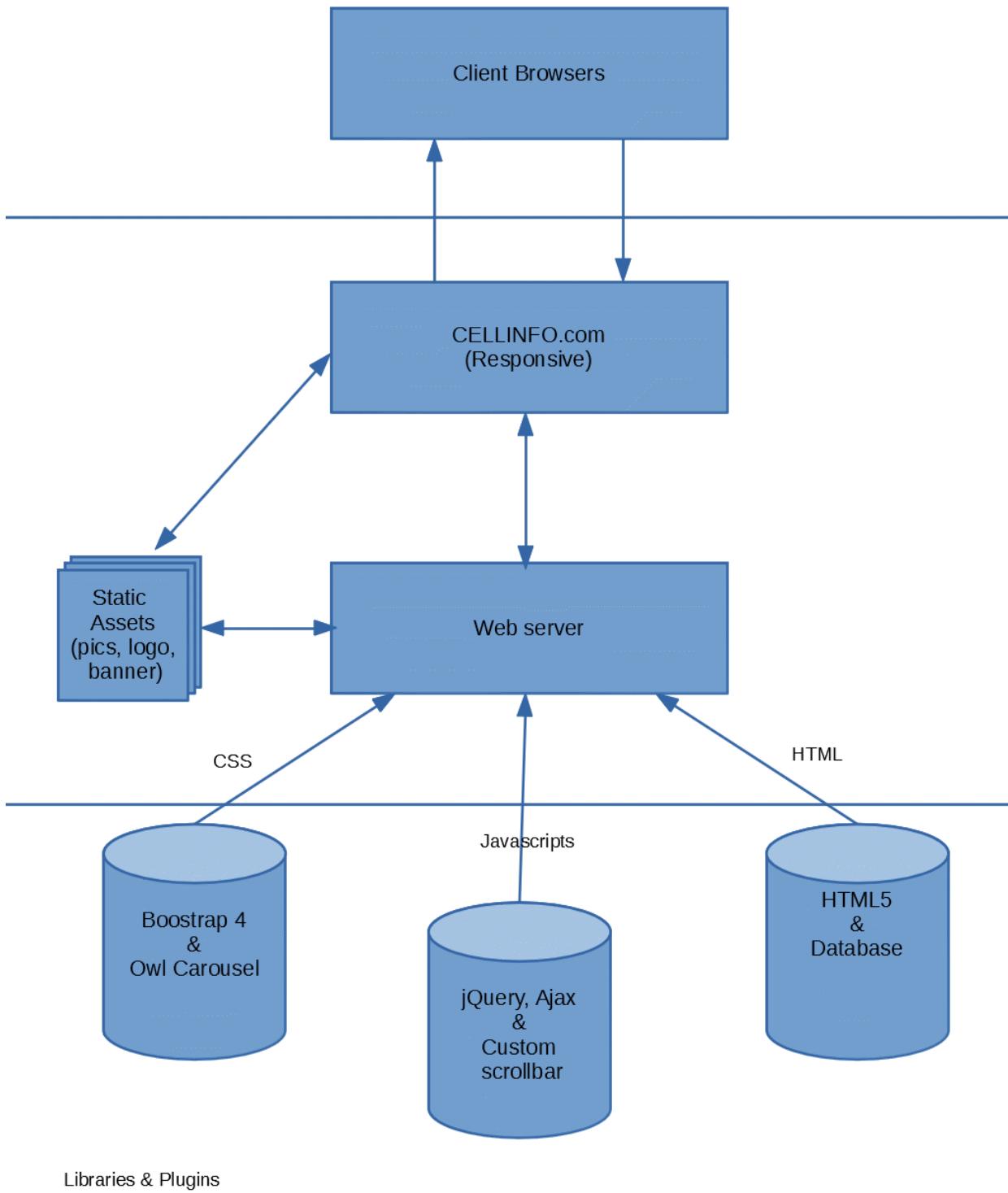
- Window 7/10 OS or higher
- HTML5/CSS/Javascript supporting browsers
- Visual Studio Code.
- Bootstrap 4
- JQuery
- Notepad editor

6. Scope of the Work (in brief):

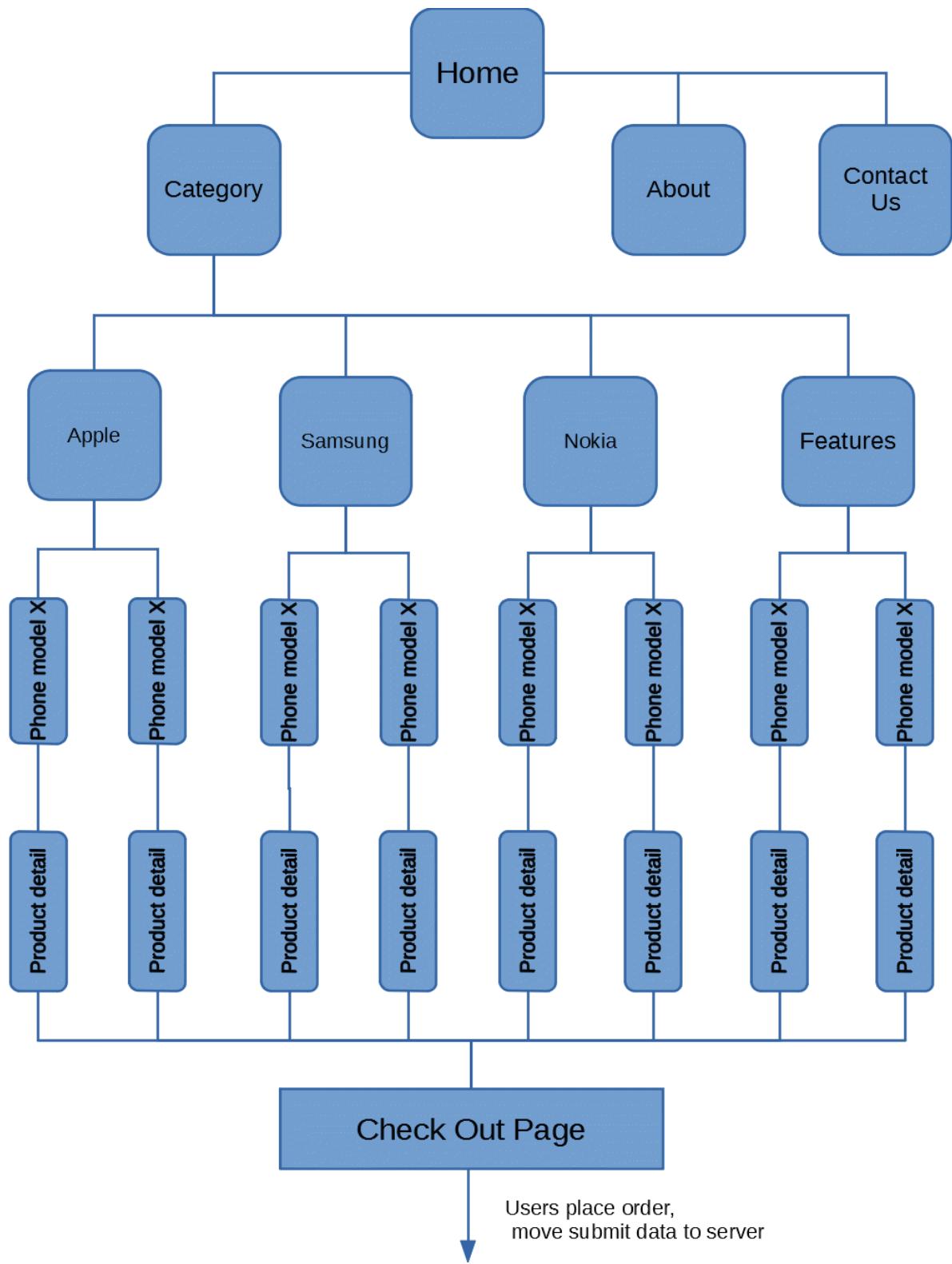
Depending on the decision taken by the management regarding the CELLINFO application, following are the requirements based on which the software needs to be developed:

- Displaying proper Logo, Images, Menu.
- A Web-based GUI to be created for displaying hyperlinks and clickable Images. The menu will stay on the left side navigation bar, it is to be closed with a toggle button. The menu will provide links according to phone brands and features. There will be links to other pages as well as clickable images to direct Users to third party websites(Apple, Samsung, Nokia).
- The users can view and visit the links to their favourite brands. When clicked, the hero banner will be changed to display the corresponding brand (Apple, Samsung, Nokia).
- There will be a modal page for comparison of features, the information will be displayed when users click “compare” button.
- There will be a “download” button where users can download doc documents from the site.
- A “Contact Us” to be created to provide link to email to users, Our office location will be displayed using Geolocation API embedded in the HTML.

3.4 ARCHITECTURE & DESIGN OF THE SYSTEM



3.5 SITEMAP



3.6 WEBSITE WIREFRAME LAYOUT

The website layout is to be designed with a SIMPLE but ELEGANT design. Because of the objective is to QUICKLY and SYSTEMICALLY deliver information to the site visitors, the main focus of our webpage will be on the main landing page where all the information will be stored and represented. The site users will have a variety of interactions such as performing search function on a search bar, searching using dropdown menus, comparing phone features, downloading Word documents, links to third party websites.

The websites will also have a few complimentary pages such as About, Contact Us which contain introductory information about our team and our office address.

3.6.1 HOMEPAGE

This layout below describes our Home Landing Page which contains three important part:

- The Top navigation bar and Side navigation bar:

There will be two navigation bars to work in synergy. The top bar will have a Hamburger toggle button for the side menu (side panel) and Hyperlinks on the right.

When click to Hamburger button, a side menu will come out from the left screen side, the side menu is the MOST IMPORTANT part of our project since this is where Users will have the most interactions. There will be Our company's logo on top, and several dropdown menu incorporated within the side panel, a functional search bar, and buttons to link to our Website's other pages.

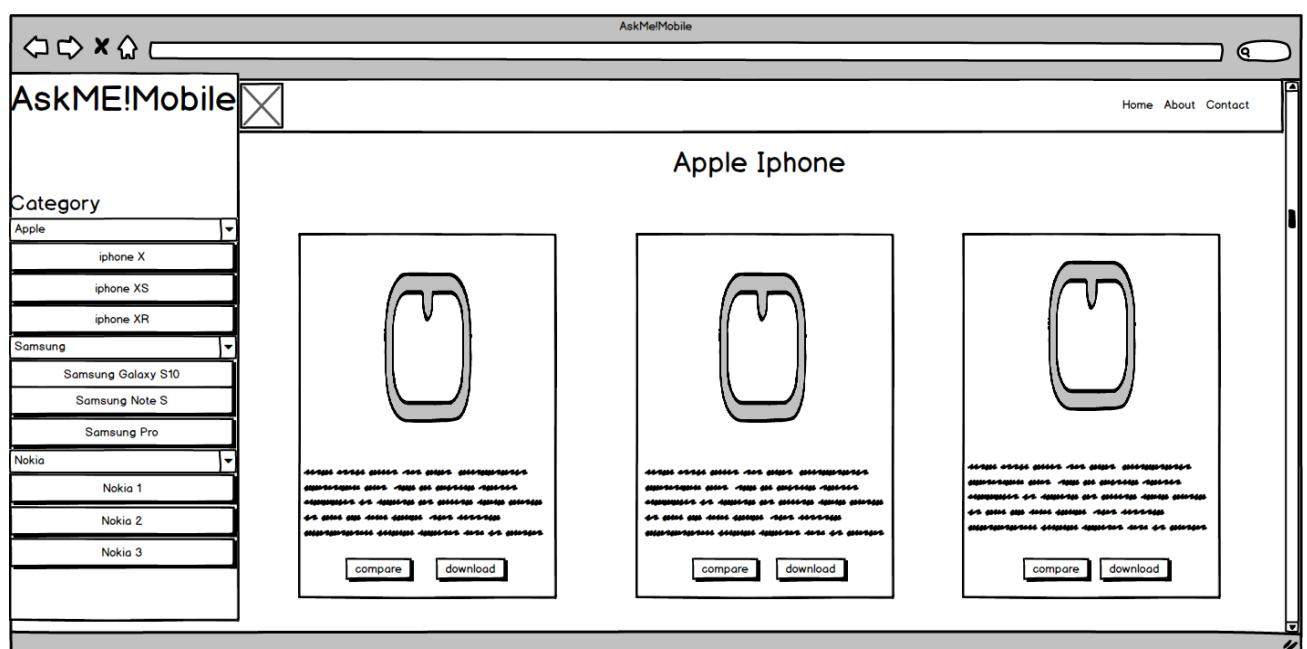
- Hero/Jumbotron:

A large Hero banner to populated in the main content area, the banner will be interactive meaning the title and small heading will be changed according to which brand the users currently be viewing.

- Main Content:

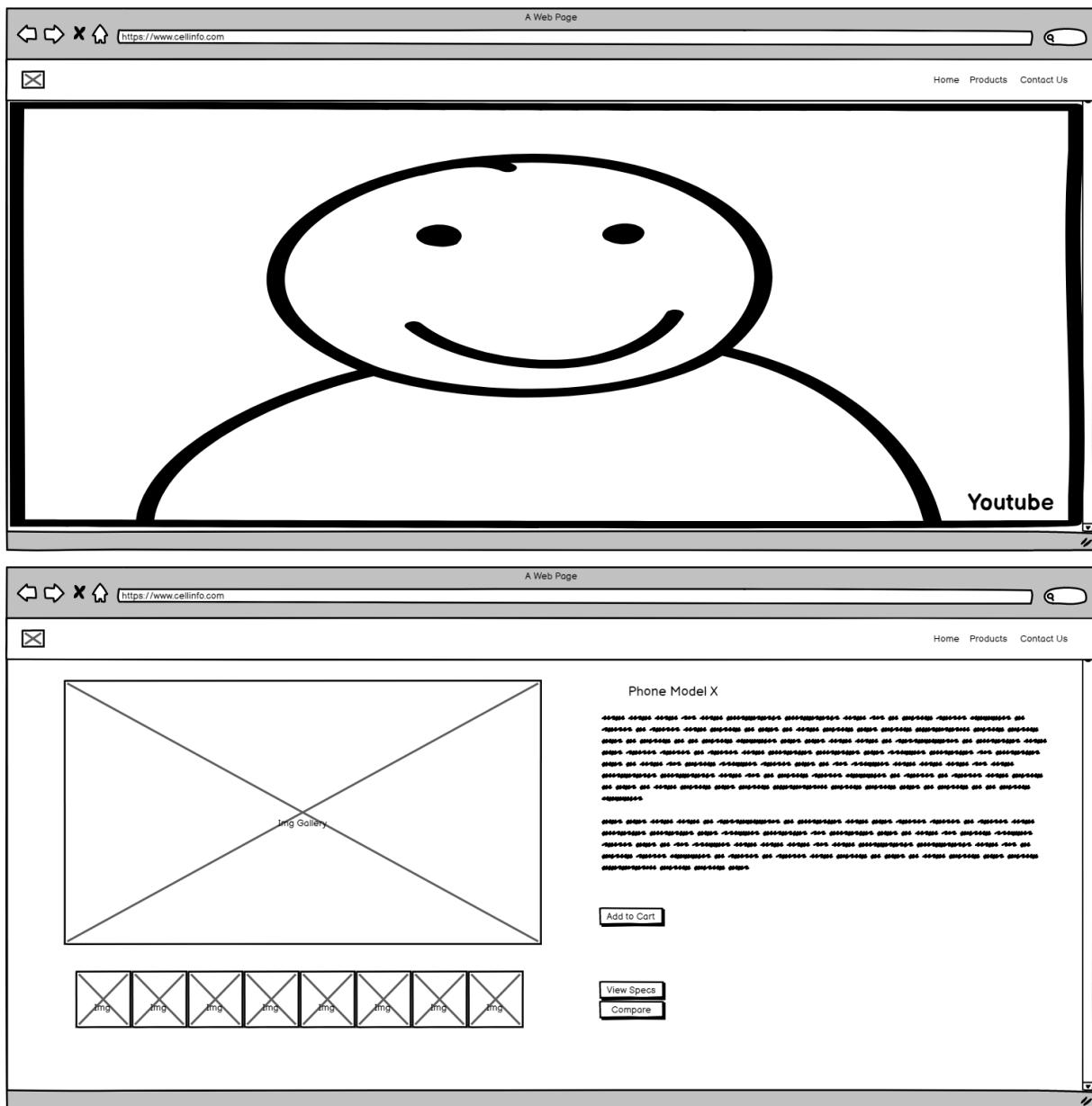
A phone brand will placed on top of the main content along with a brief description of the phone company. Next will be several carousel slide that will showcase the phone products and features. Each carousel will have several product cards which will contain a brief summary of features and hyperlink buttons.

There will be two hyperlink buttons, a “compare” button and a “download” button. The “compare” button will link to a modal table which will compare current phone with 5 phones of the same brand and 2 of another brands. The download button will provide a link to download phone features in Word Docs.



3.6.2 PRODUCT DETAIL

Each phone model will be linked directly to their product detail page.



Users should be able to find sample images and promotional materials in the product detail page. If they wish to purchase the phone, users should be able to click to add to cart button to update their cart.

3.6.3 CHECKOUT PAGE

A Web Page
https://www.ceilinfo.com

Home Products Contact Us

AskMe!Mobile

< Continue Shopping

Order Summary

Your cart is empty

Total:

Billing Address

Input Label:

Input Label:

Input Label:

Input Label:

Payment

Input Label:

Input Label:

Input Label:

Input Label:

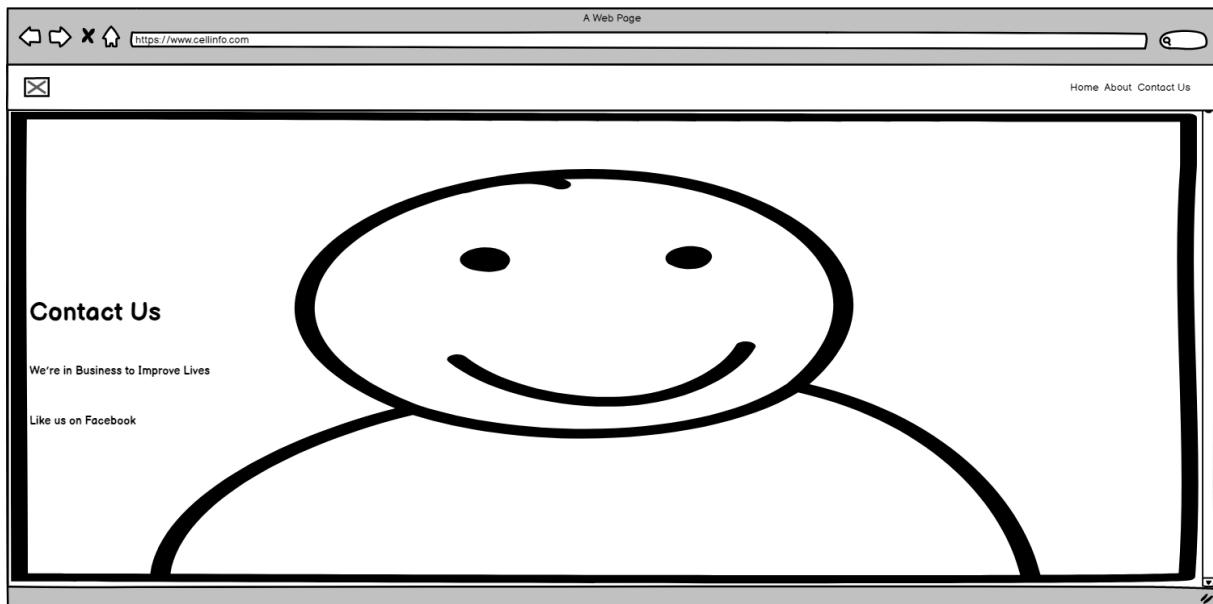
Submit

lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboria nisi ut aliquip ex ea commodo consequat. Duis aute iure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

The diagram shows a web browser window with the URL https://www.ceilinfo.com. The page title is 'AskMe!Mobile'. At the top right are links for 'Home', 'Products', and 'Contact Us'. Below the title is a button labeled '< Continue Shopping'. A section titled 'Order Summary' follows, containing the message 'Your cart is empty'. A 'Total:' label is present below it. The main form area is divided into two columns: 'Billing Address' on the left and 'Payment' on the right. Each column contains four input fields, each preceded by a 'Input Label:' placeholder. A 'Submit' button is located at the bottom of the form. A large amount of placeholder text from the 'lorem ipsum' generator is at the bottom of the page.

3.6.4 CONTACT US

The contact us layout will have be simple, there will be a main hero banner on top and below are the headings and email link to our office, a feedback form to be populated using Ajax, and our office address along with a geolocation API showing our office location. The topnav menu will become “Active” to show which page users are currently in.



A Web Page

<https://www.cellinfo.com>

Contact Us - Title

Follow Us

[+](#) [f](#) [t](#) [P](#) [in](#) [m](#)

Send Us an email

Have abuse to report?

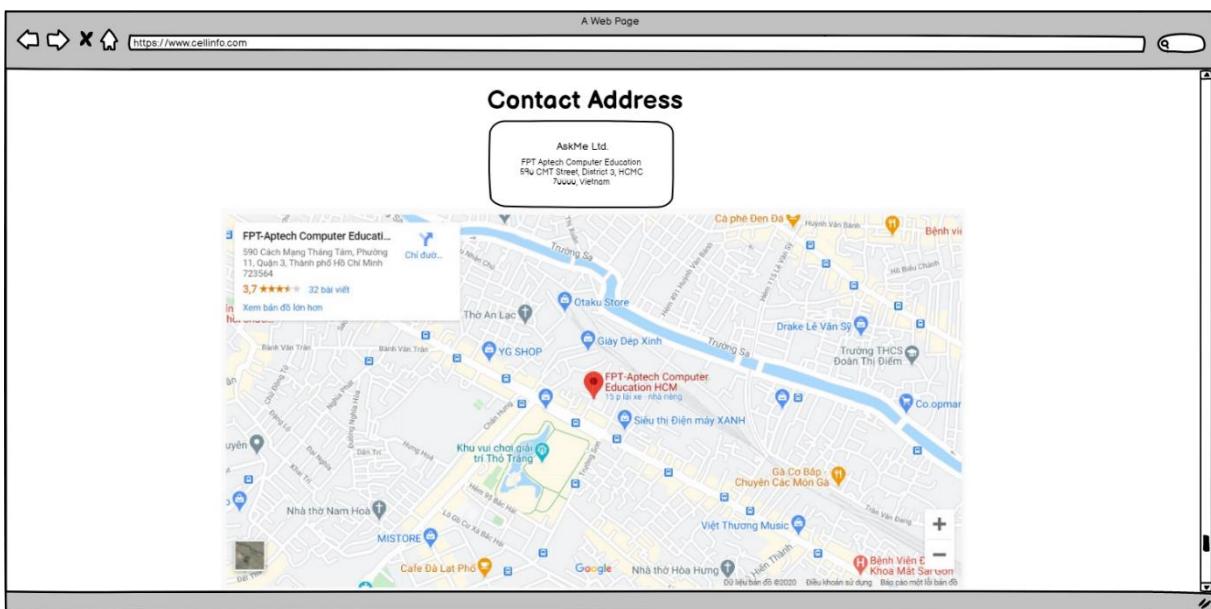
Your Name

Email Address

Your Feedback

Submit

Contact Address



3.7 TASK SHEET 1

Project Ref No.	Project Title – Ask Me Mobile	Activity Plan Prepared by	Date of preparation of Activity Plan			
			Actual Start Date	Actual Days	Teammate Names	Status
Brainstorming ideas for layouts, and Project Objective	Phát, Triệu, Nghĩa	05/09/2020	1 day	Phát, Triệu, Nghĩa	Completed	
Draw site maps and architecture design	Phát	03/09/2020	1 days	Phát	Completed	
Wire framing general page layout.	Phát, Triệu	05/09/2020	4 days	Phát, Triệu	Completed	
Collect static assets (pictures, mp4, documentation)	Phát, Triệu, Nghĩa	05/09/2020	3 days	Phát, Triệu, Nghĩa	Completed	
Design & Build Home Page	Phát	03/09/2020	8 days	Phát	Completed	
Design & Build Contact Us Page	Nghĩa	05/09/2020	2 days	Nghĩa	Completed	
Design & Build About Us Page	Triệu, Nghĩa	08/09/2020	4 days	Triệu, Nghĩa	In Progress	
Design & Build Footer Session	Triệu	12/09/2020	2 days	Triệu	In Progress	
Write project report Review 1	Phát	09/09/2020	3 days	Phát	Completed	

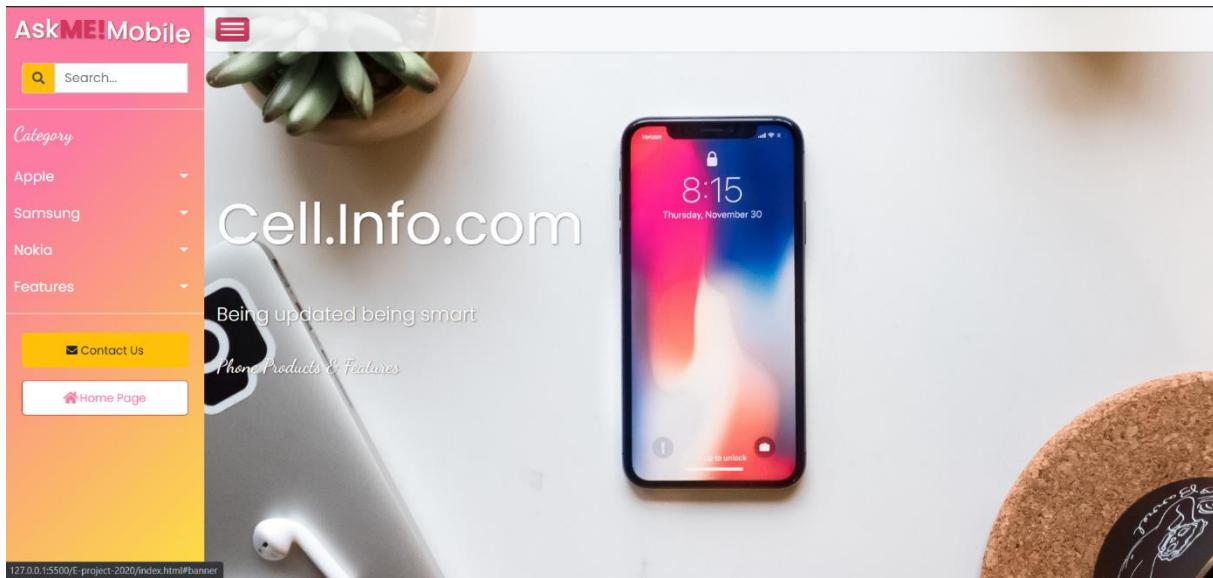
Signature of Faculty	Signature of Team Leader

4 REVIEW 2

5 PROJECT SNAPSHOTS

5.1 Home Page

The following snapshots illustrate the creation of CELL INFO.COM home page:



A screenshot of the 'Samsung' section on the CELL INFO.COM website. The top navigation bar includes a search bar and a 'Korean Favourites' link. Below the navigation, the word 'Samsung' is prominently displayed. A descriptive text states: 'The flagship Galaxy smartphones are the Galaxy S and the Galaxy Note series. The Galaxy Z series are foldable smartphones. The Galaxy A series and Galaxy M series are mid-range and low-end/budget models. Other lines are discontinued.' Three Samsung phones are shown in cards: the Samsung Galaxy A21s (red), the Samsung Galaxy A31 (red), and the Samsung Galaxy M31 (blue). Each card includes a thumbnail image of the phone, the model name, and a list of specifications. To the right of the cards is a vertical sidebar with icons for navigation and a red circular button. The URL 'https://www.samsung.com/vn/smartphones/galaxy-a31-a315/SM-A315GZBWWXX/' is visible at the bottom of the page.

5.2 Product details Page

The screenshot shows a product details page for the iPhone 11. At the top, there is a large banner image featuring several iPhone 11 phones in different colors (black, white, blue, green) displayed at various angles against a dark background with dramatic lighting. Below the banner, the product title "IPHONE 11" is prominently displayed in bold capital letters. To the right of the title is a star rating icon showing four yellow stars and one black star, with the text "54 reviews" underneath. The main product image shows the iPhone 11 in a light purple color, resting on a pink surface next to a white lamp. Below this image is a horizontal row of smaller thumbnail images showing the phone from different angles and in different colors. To the right of the main image, there is a detailed product description: "The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and we thought we'd never see the maker give this idea another try. Well, last year the iPhone XR was more than well received being the best selling iPhone of the trio, so this year we welcome its sequel - the iPhone 11." Below the description, the price "\$799" is listed in bold, followed by a note that 89% of buyers enjoyed the product (87 votes). Further down, there are sections for "COLORS" (with three color swatches: red, teal, and purple), "STORAGE" (with options for 64GB, 128GB, and 256GB), and buttons for "View Specs", "Compare", and "Add to Cart". A testimonial section follows, featuring a circular profile picture of a woman and a quote: "Mrs Lynx - House wife" and "Decided to take a leap and buy this beast. I must say it does not disappoint". At the bottom of the page, there are links for "Cell.info.com", "Blogs" (with a thumbnail image of two people), and "Instagram" (with a thumbnail image of a kitchen scene).

5.3 Check out Page:

Ask Us? Mobile

Your Cart

Image	Product	Price	Quantity	Subtotal
	Iphone XR	\$699	1	\$699.00
	Iphone 11	\$899	1	\$899.00
	Iphone SE(2020)	\$999	1	\$999.00

Total: \$2597

Reset Check out

The iPhone is a line of touchscreen-based smartphones designed and marketed by Apple Inc. that use Apple's iOS mobile operating system. The first-generation iPhone was announced by Apple co-founder Steve Jobs on January 9, 2007. Since then Apple has annually released new iPhone models and iOS updates. As of November 1, 2018, more than 2.2 billion iPhones had been sold.

AskMe!Mobile

Continue Shopping

Order Summary

Image	Product	Price	Quantity	Subtotal
	Iphone XR	\$699	1	\$699.00
	Iphone 11	\$899	1	\$899.00
	Iphone SE(2020)	\$999	1	\$999.00

TOTAL: \$2597

Billing Address

Full Name:

Email:

Address:

Payment

Accepted Cards:

Name on Card:

Credit card number:

Exp Month:

Exp Year:

CVV:

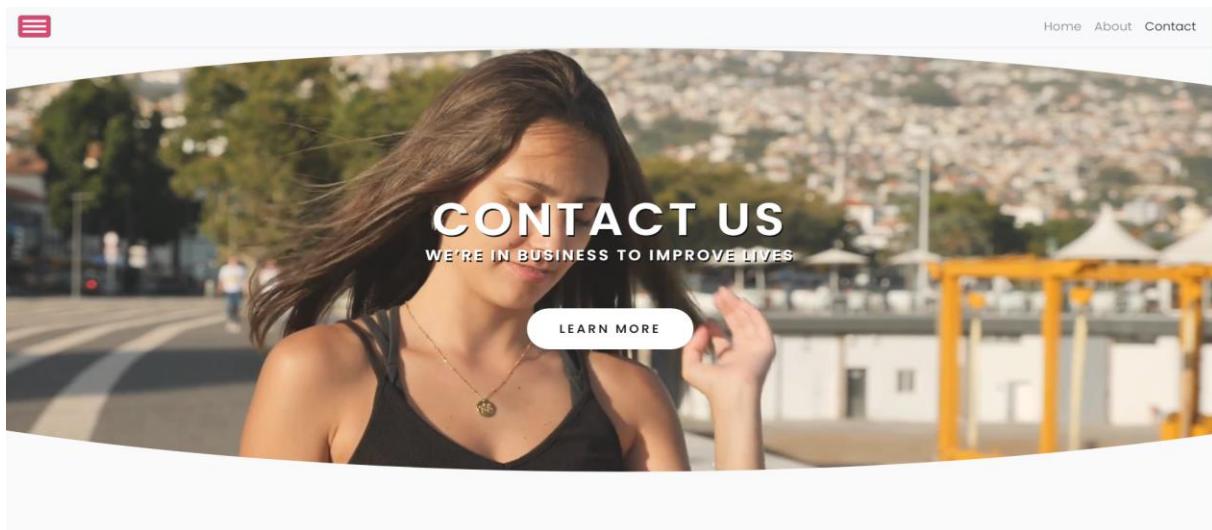
Shipping address same as billing

Place order

Each Purchase Order placed by buyer for goods and/or services is subject to these standard purchase terms and the terms of the applicable Purchase Order, and is conditional upon Supplier's agreement to such terms. Supplier shall be deemed to have agreed to be bound by such terms by accepting the Purchase Order, delivering the goods, and/or performing the services.

5.4 Contact Us:

The following snapshots illustrate the creation of CELL INFO.COM contact us page:



CONTACT US
WE'RE IN BUSINESS TO IMPROVE LIVES

LEARN MORE

Home About Contact

Seek first to understand. Then to be understood.

Follow us

[f](#) [t](#) [p](#) [in](#) [m](#)

Send us an Email

askme@mobile.info

Have a Problem to report?

Tell us about it here

Contact Address

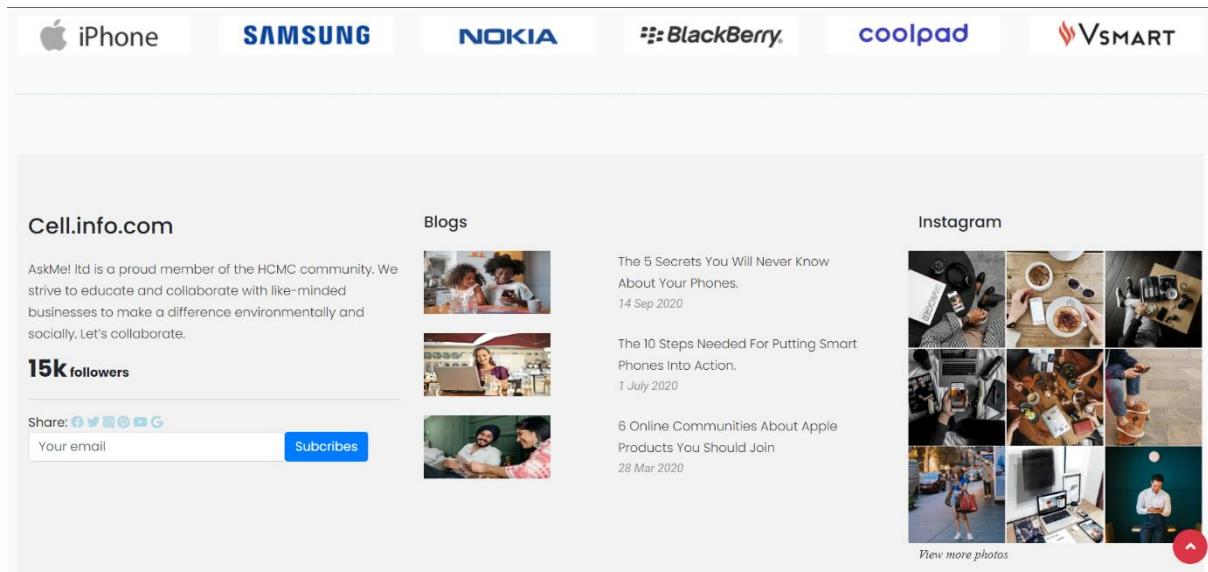
AskMe!Mobile ltd.
FPT Aptech Computer Education
590 CMT Street, District 3, HCMC
70000, Vietnam



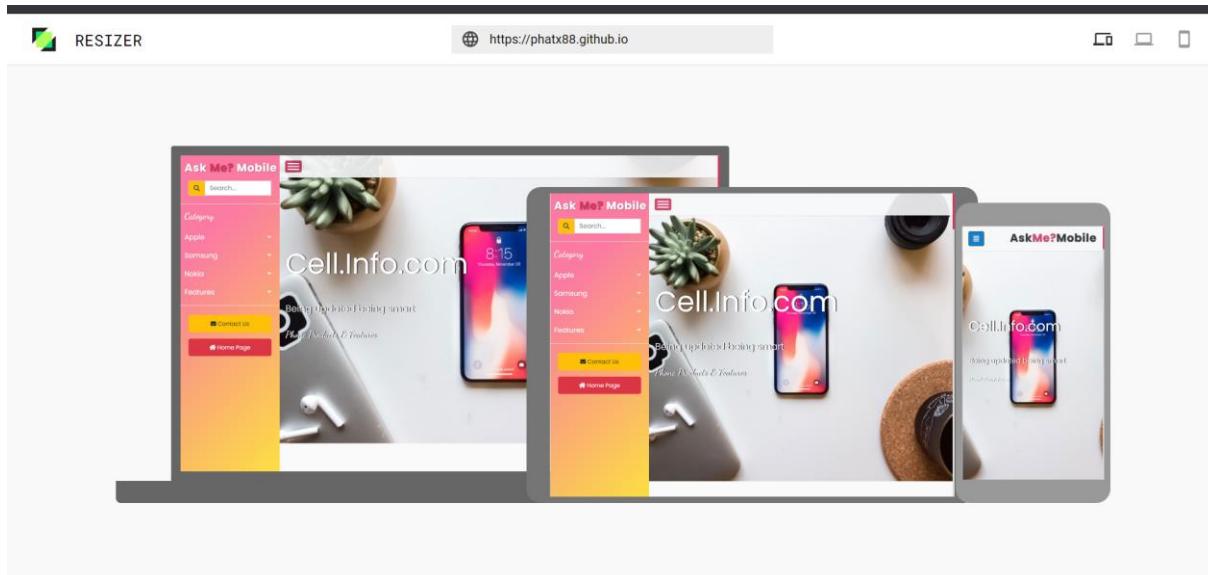
5.5 Footer

The following snapshot illustrates the creation of CELL INFO.COM footer session:

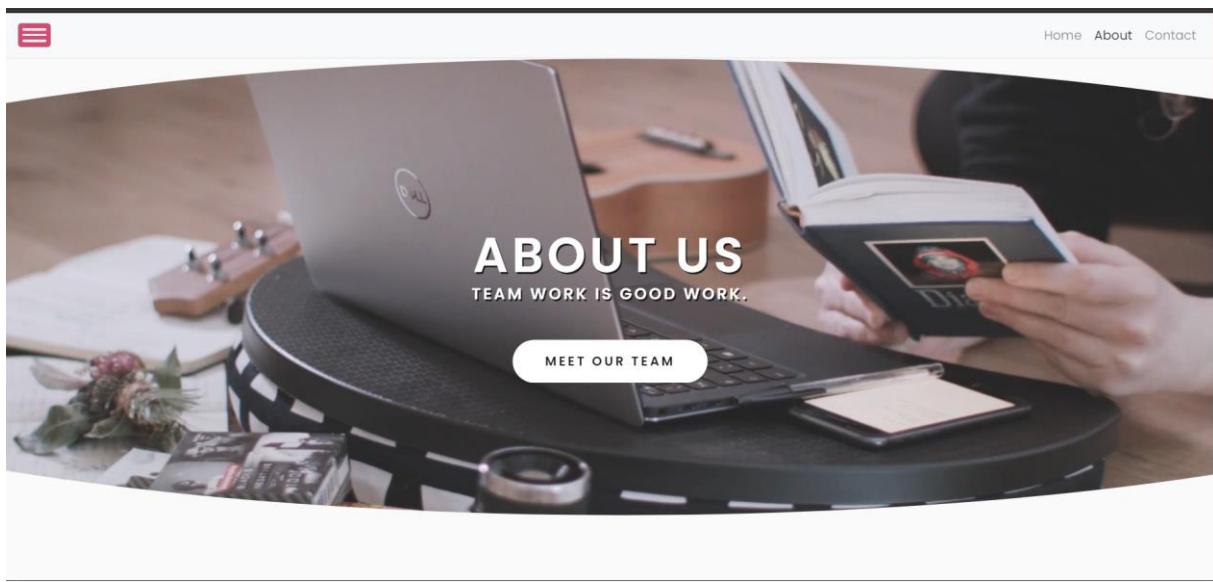


5.6 Responsiveness Test

Using Google Resizer to test, our website is 100% responsive to all standard mobile devices and tablets.

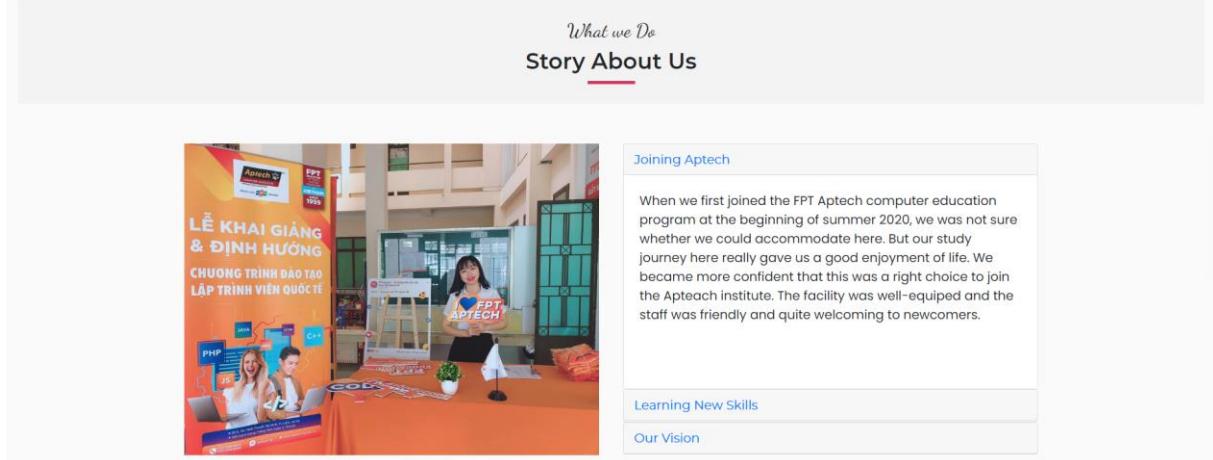


5.7 About Us



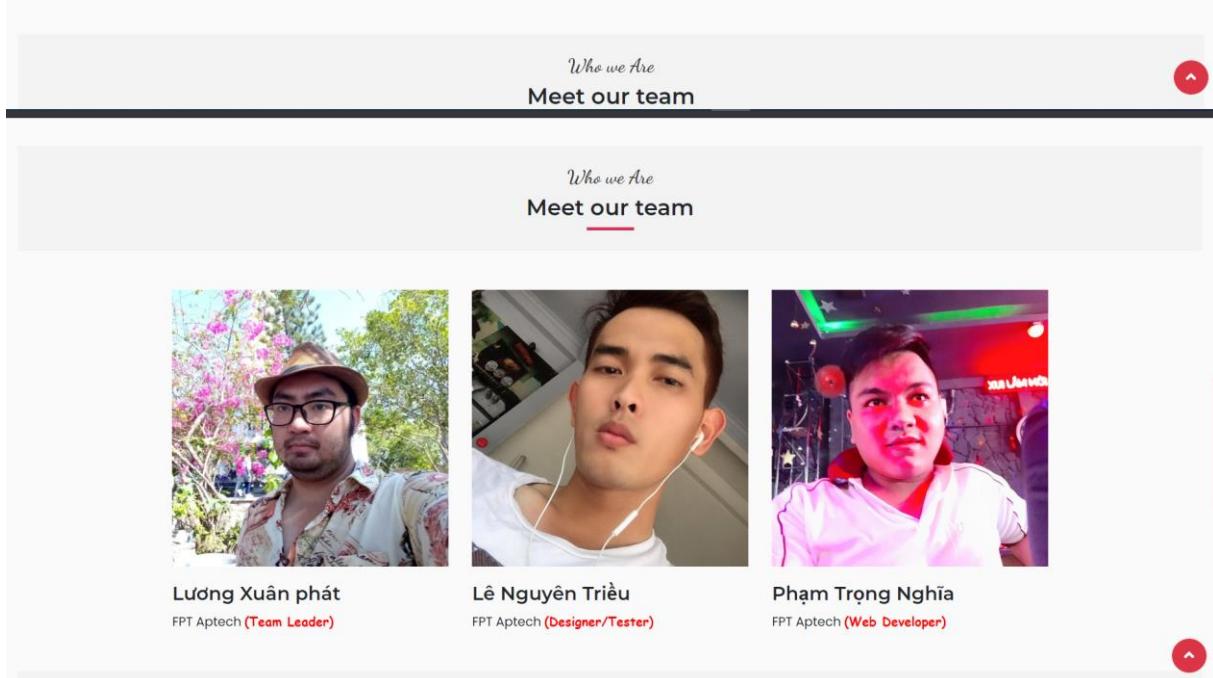
The landing page features a large banner at the top with a photograph of a desk setup. A laptop, a smartphone, and a book are visible. The text "ABOUT US" is prominently displayed in the center, with the subtitle "TEAM WORK IS GOOD WORK." Below it is a button labeled "MEET OUR TEAM". The navigation bar at the top right includes links for Home, About, and Contact.

What we Do
Story About Us



This section contains a photograph of a promotional event for FPT Aptech, showing a banner for "LỄ KHAI GIẢNG & ĐỊNH HƯỚNG CHUƠNG TRÌNH ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ". To the right is a text box titled "Joining Aptech" which describes the positive experience of joining the institute.

Who we Are
Meet our team



This section features three photographs of team members: Lương Xuân phát, Lê Nguyên Triều, and Phạm Trọng Nghĩa. Each photo includes a caption below it identifying the person and their role at FPT Aptech.

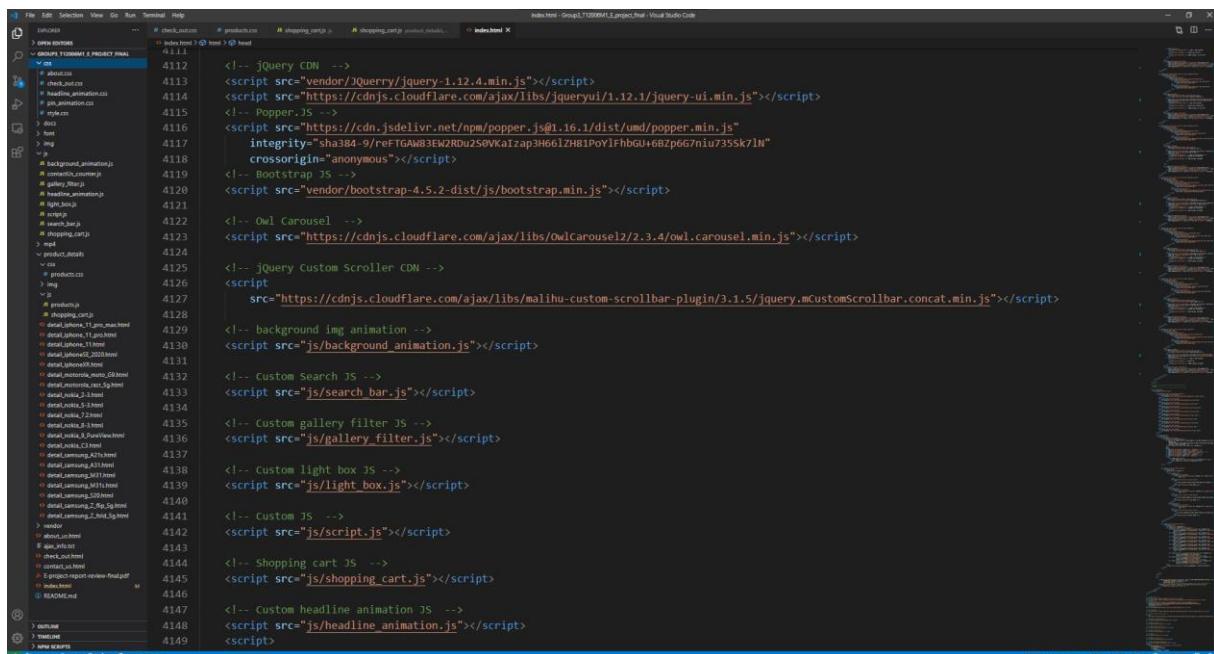
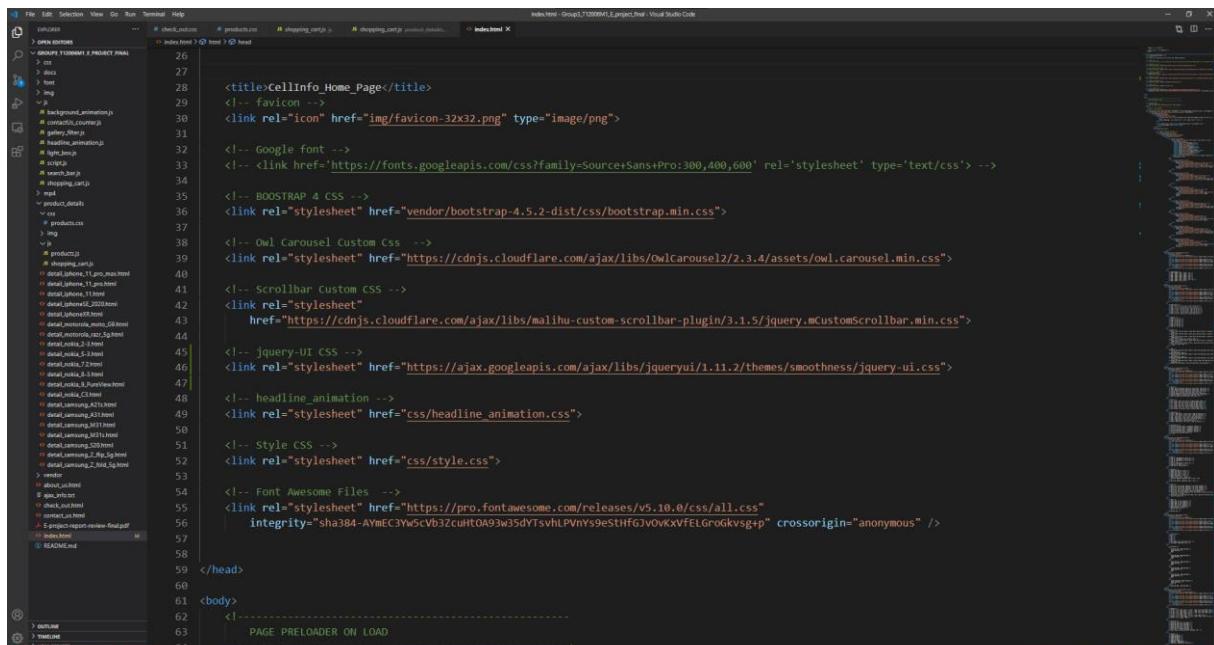
Lương Xuân phát
FPT Aptech (**Team Leader**)

Lê Nguyên Triều
FPT Aptech (**Designer/Tester**)

Phạm Trọng Nghĩa
FPT Aptech (**Web Developer**)

6 SOURCE CODE WITH COMMENT

The project is built based upon the Bootstrap 4 frame work. However, our developer team also heavily modify this website using custom plug-ins and our own HTML/CSS/JS codes. Below is the illustration of important source codes and libraries that we are using for our project.



```
<title>CellInfo_Home_Page</title>
<!-- favicon -->
<link rel="icon" href="img/favicon-32x32.png" type="image/png">

<!-- Google font -->
<!-- <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600" rel="stylesheet" type="text/css"> -->

<!-- BOOTSTRAP 4 CSS -->
<link rel="stylesheet" href="vendor/bootstrap-4.5.2-dist/css/bootstrap.min.css">

<!-- Owl Carousel Custom CSS -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/OwlCarousel2/2.3.4/assets/owl.carousel.min.css">

<!-- Scrollbar Custom CSS -->
<link rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/malihu-custom-scrollbar-plugin/3.1.5/jquery.mCustomScrollbar.min.css">

<!-- jquery UI CSS -->
<link rel="stylesheet" href="https://ajax.googleapis.com/ajax/libs/jqueryui/1.11.2/themes/smoothness/jquery-ui.css">

<!-- headline_animation -->
<link rel="stylesheet" href="css/headline_animation.css">

<!-- Style CSS -->
<link rel="stylesheet" href="css/style.css">

<!-- Font Awesome Files -->
<link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css"
      integrity="sha384-AYmEC3w5cvBzUH093w35dyTsvhLPVnrs9eSTfGjvovxvFELGroGkvsg+p" crossorigin="anonymous" />

<!-- PAGE PRELOADER ON LOAD -->
```

```
4.1.1.1
<!-- jQuery CDN -->
<script src="vendor/jquery/jquery-1.12.4.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min.js"></script>
<!-- Popper JS -->
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
      integrity="sha384-9/reFTGAW83EW2RDu2S0VKaiZap3H66lZH81PoYfH7qE8rRvY5nYPR5' crossorigin="anonymous"></script>
<!-- Bootstrap JS -->
<script src="vendor/bootstrap-4.5.2-dist/js/bootstrap.min.js"></script>

<!-- Owl Carousel -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/owl.carousel/2.3.4/owl.carousel.min.js"></script>

<!-- jQuery Custom Scroller CDN -->
<script
      src="https://cdnjs.cloudflare.com/ajax/libs/malihu-custom-scrollbar-plugin/3.1.5/jquery.mCustomScrollbar.concat.min.js"></script>

<!-- background img animation -->
<script src="js/background_animation.js"></script>

<!-- Custom Search JS -->
<script src="js/search_bar.js"></script>

<!-- Custom gallery filter JS -->
<script src="js/gallery_filter.js"></script>

<!-- Custom light box JS -->
<script src="js/light_box.js"></script>

<!-- Custom JS -->
<script src="js/script.js"></script>

<!-- Shopping cart JS -->
<script src="js/shopping_cart.js"></script>

<!-- Custom headline animation JS -->
<script src="js/headline_animation.js"></script>
```

We will go through each module in greater details following our Developer guide.

7 USER MANUAL

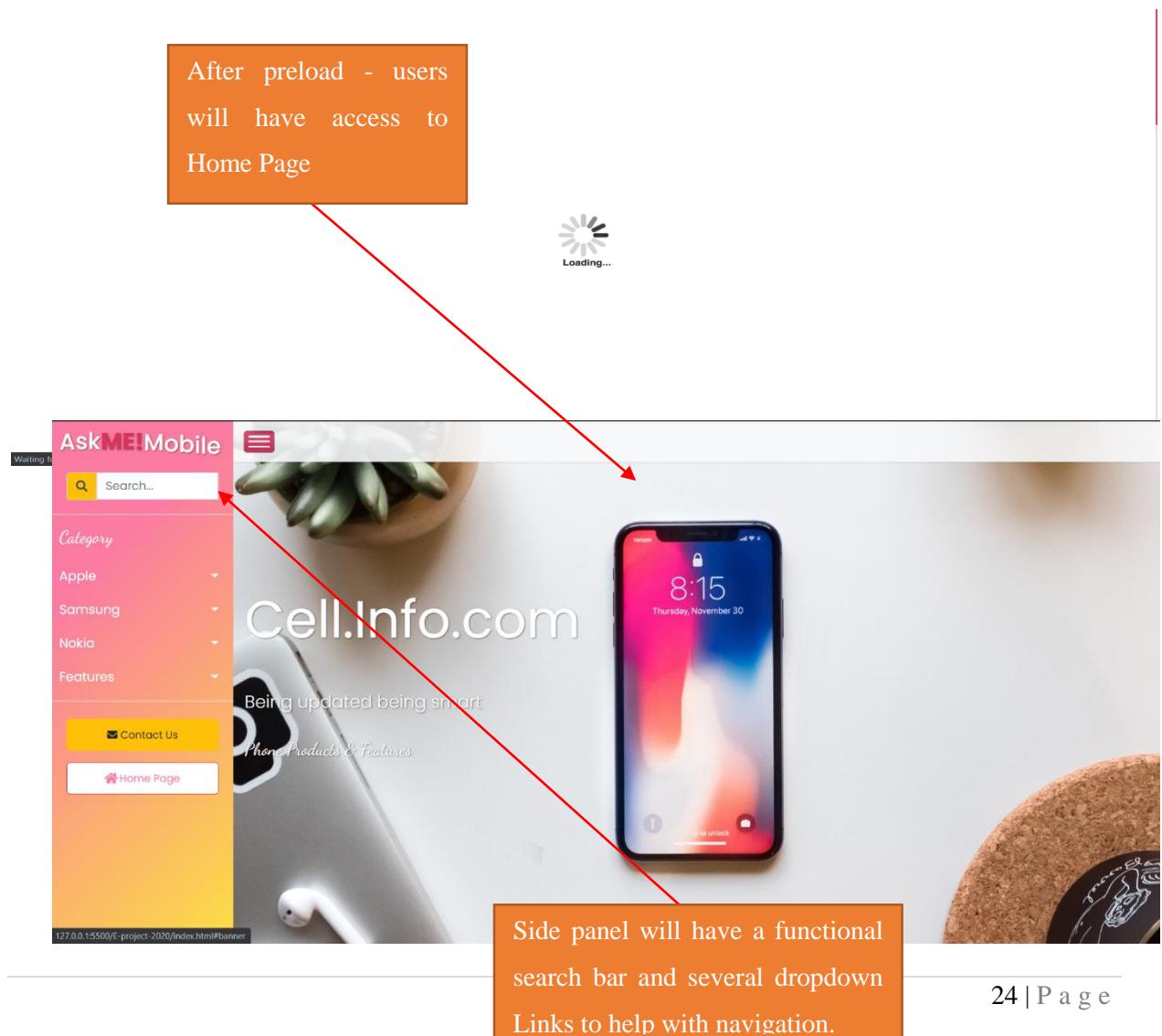
7.1 System Requirements:

No.	Items	Description
1	Operating System	Android, iOS, window 7 or higher.
2	Supporting Browsers	Chrome, Firefox, Microsoft Edge, IE10+, Opera

7.2 Step by Step Instructions:

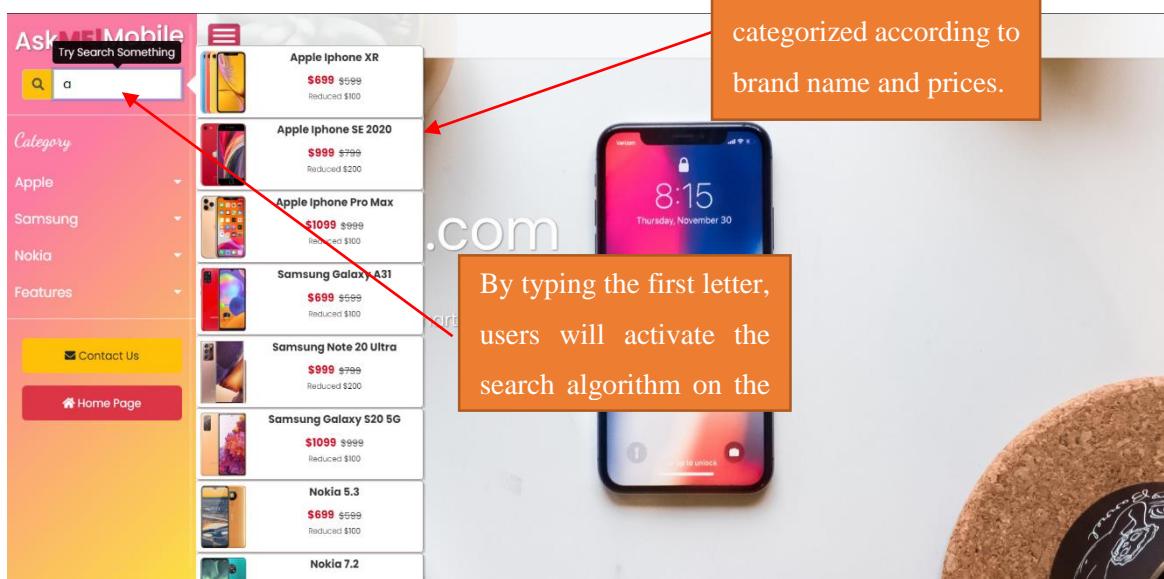
7.2.1 Starting Home Page:

Users will have access to the website by typing to domain name CELLINFO.com, After a brief loading screen user will have access to a top navigation bar and a side menu.

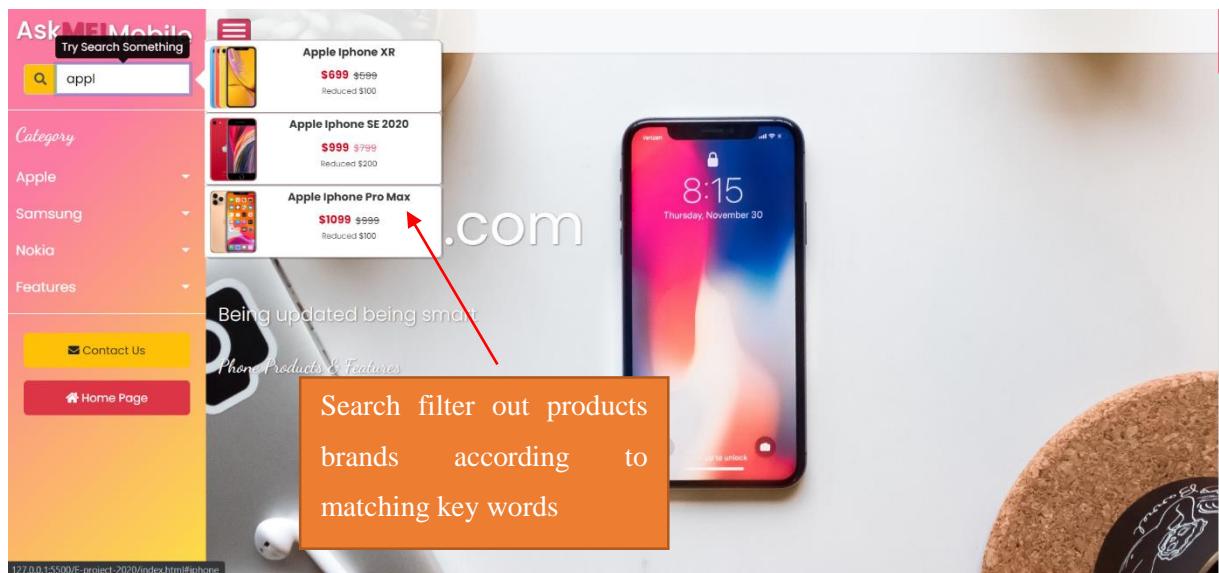


7.2.2 Using Search bars & Dropdown menu

From the side panel, users can start searching for products specifically by typing keywords into search bar. If the users prefer to browse first, there are several dropdown menu categorizing phone products according to brands and features.



By typing the first letter, users will activate the search algorithm on the



Being updated being smart
Phone Products & Features

Search filter out products
brands according to
matching key words

The screenshot shows a mobile phone search interface. The search bar at the top contains the number '699'. A dropdown menu is open, listing products that match this search term:

- Apple iPhone XR: \$699 (\$599 Reduced \$100)
- Samsung Galaxy A31: \$699 (\$599 Reduced \$100)
- Nokia 5.3: \$699 (\$599 Reduced \$100)

A red arrow points from the text 'Numbers can also used as keywords' to the search bar.

Numbers can also used as keywords

Below the search interface, there's a promotional banner for Nokia phones with the text 'Connecting People' and 'Phone Products & Features'. To the right, several Nokia phones are displayed in different colors (black, blue, silver, white, orange).

Background images will also changed each time according to which brand the users is currently

7.2.3 Browsing Products Gallery:

After clicking to certain phone model in drop down menu, Users will be guided to the product carousels.

Users can perform browsing by clicking and dragging the product cards to any left/right direction.

Each product card will contain a brief summary of phone features and an Add To Cart button.

Two CTA buttons at the bottom. The blue button will open a comparison table, the yellow one will prompt users to download Word docs containing full spec information of the phone model

7.2.4 Product Details Page:

Clicking on the title of the product card/card img will prompt users to open a product details page.

iPhone 11 Pro Max

- Add To Cart
- Thickness: 8.1mm
- Weight: 194g
- OS: iOS 13, up to iOS 13.6.1
- Storage: 64GB/128GB/256GB storage, no card slot

iPhone 11

- Add To Cart
- Thickness: 8.1mm
- Weight: 194g, 8.1mm thickness
- OS: iOS 13, up to iOS 13.6.1
- Storage: 64GB/128GB/256GB storage, no card slot

Apple iPhone XR

- Add To Cart
- Thickness: 7.3mm
- Weight: 194g, 7.3mm thickness
- OS: iOS 12, up to iOS 13.6.1
- Storage: 64GB/128GB/256GB storage, no card slot

iPhone 11 - Apple

Now More Powerful

YouTube

IPHONE 11

★★★★★ 54 reviews

The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and we thought we'd never see the maker give this idea another try. Well, last year the iPhone XR was more than well received being the best selling iPhone of the trio, so this year we welcome its sequel - the iPhone 11.

PRICE: \$899

Add To Cart

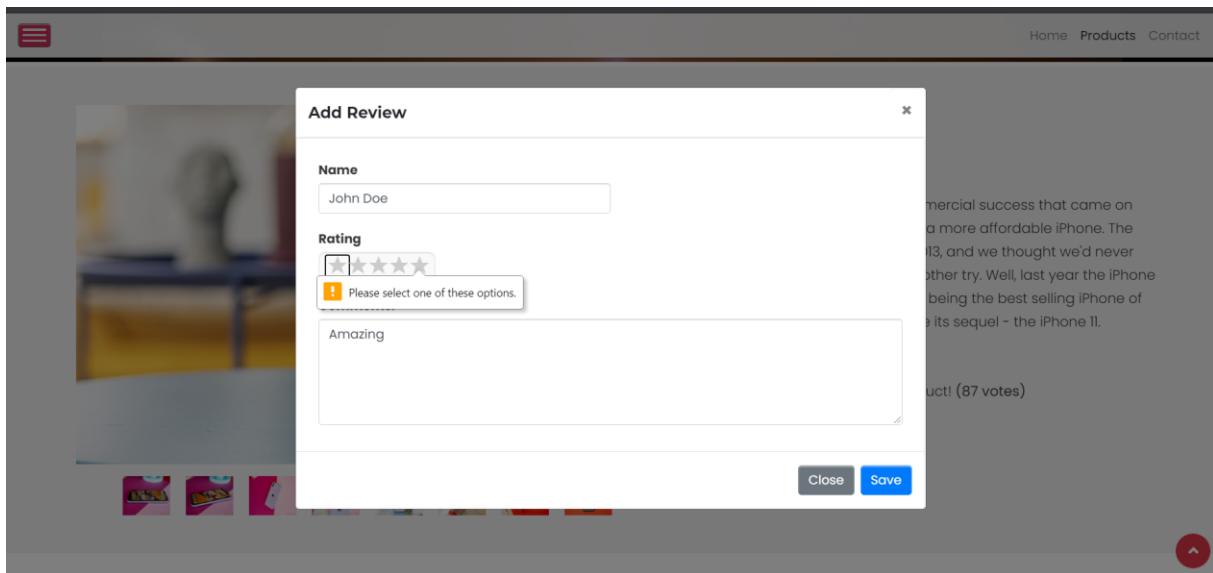
89% of buyers enjoyed this product! (87 votes)

COLORS: X (Red) • (Teal) • (Purple)

STORAGE: 64GB 128GB 256GB

View Specs Compare

Users can leave a review or view/download phone specs by clicking at CTA buttons.



AskME!Mobile

Category

- Apple
- Samsung
- Nokia
- Features

Contact Us | Home Page

127.0.0.1:5500/E-project-2020/index.html#iphone

IPHONE 11

54 reviews

The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and this idea worked more than expected - the iPhone 11.

PRICE: \$699.99

89% of buyers recommend

COLORS: X (Red), C (Green), M (Purple)

STORAGE: 64GB, 128GB, 256GB

View Specs

Clicking Link on the right will return users to the Home Page.

Ask Us? Mobile

Category

- Apple
 - iPhone XR
 - iPhone SE (2020)
 - iPhone 11 Pro
 - iPhone 11 Pro Max
 - iPhone 11
- Samsung
- Nokia
- Features

Contact Us | Home Page

https://phatx88.github.io/Group3_T12006MTE_project_final/index.html#iphone-carousel

Phone Model	Thickness	OS	Storage Options
Apple iPhone XR	7.3mm	iOS 12, up to iOS 13.6.1	64GB/128GB/256GB storage, no card slot
iPhone SE(2020)	7.3mm	iOS 13	64GB/128GB/256GB storage, no card slot
iPhone 11 Pro	8.1mm	iOS 13, up to iOS 13.6.1	64GB/128GB/256GB storage, no card slot

7.2.5 CTA Buttons – Compare & Download

Clicking The blue button will prompt users to open a modal window.

Info will be updated every month at the end of the countdown

All info will be categorized according to phone features to help with accessibility.

A table modal will be opened.

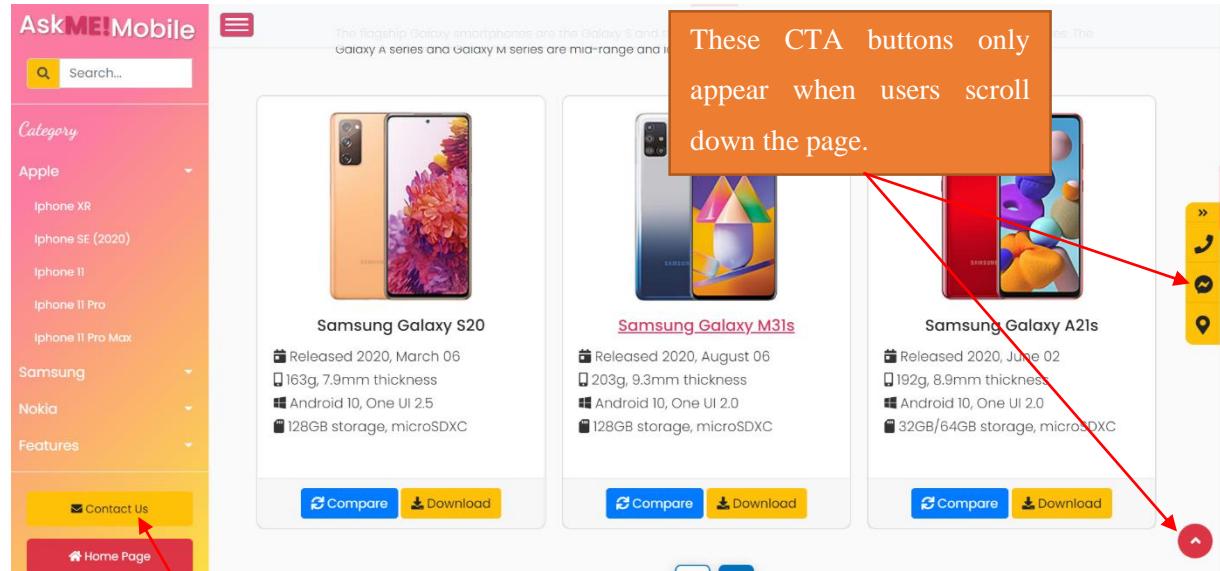
Users can compare 5 phone models of the same brand and 2 phone models of other brands.

	Nokia 2.3	Nokia 5.3	Nokia 7.2	Nokia 8.3 5G	Nokia C3 (2020)	Apple iPhone 11 Pro Max	Samsung Galaxy S20
NETWORK	Nokia 2.3	Nokia 5.3	Nokia 7.2	Nokia 8.3 5G	Nokia C3 (2020)	Apple iPhone 11 Pro Max	Samsung Galaxy S20
Technology	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE / 5G	GSM / HSPA / LTE / 5G
BODY	Nokia 2.3	Nokia 5.3	Nokia 7.2	Nokia 8.3 5G	Nokia C3 (2020)	Apple iPhone 11 Pro Max	Samsung Galaxy S20

Clicking ‘download’ button prompt the users to down Word docx file containing a full spec description of that phone model

7.2.6 CTA Buttons – Miscellaneous

There are several CTA buttons on the right side of the browser window. These buttons will only pop out when users start scrolling to main content of the home page.



The screenshot shows the AskME! Mobile homepage with a floating 'Find Us On Google Map - AskMe Itd' overlay. The overlay displays a map of HCMC with a red marker for 'FPT-Aptech Computer Education HCM'. Below the map is a 'Close' button. The main content area shows a product card for the Samsung Galaxy M31. To the right of the product card is a vertical column of CTA buttons: a double arrow, a phone icon, a message icon, and a location pin. An orange callout box with the text 'The CTA buttons provide more functionality to our Homepage, users can submit a Contact form, open Messenger, or find our location on Google map.' is positioned below the right-side panel. Red arrows point from the 'Contact Us' and 'Home Page' buttons in the sidebar to their respective counterparts on the right side panel, and another arrow points from the 'Find Us On Google Map' overlay to the location pin CTA button.

7.2.7 Add-to-cart: & Check-out:

The following screenshots show the mobile interface for adding items to a cart and proceeding to checkout.

Top Screenshot: Product Selection

This screenshot shows a grid of three Samsung phones: Galaxy M31s, Galaxy A21s, and Galaxy A31. Each phone has an "Add To Cart" button. An orange callout box points to the Galaxy M31s "Add To Cart" button with the text: "Clicking Add To Cart button will save items into cart."

Middle Screenshot: Your Cart

This screenshot shows a modal titled "Your Cart" displaying a list of items. The items are:

Item	Price	Quantity	Total
Galaxy S20	\$1099	6	\$6594.00
Nokia 5.3	\$699	1	\$699.00
Nokia 2.3	\$399	1	\$399.00
Nokia 7.2	\$999	1	\$999.00
Galaxy Z Fold	\$2049	1	\$2049.00
Galaxy Z flip	\$1499	1	\$1499.00
Motorola Razr	\$1699	1	\$1699.00
Galaxy M31s	\$499	1	\$499.00

An orange callout box points to the "Check out" button at the bottom right of the cart with the text: "A items summary will appear if customer open the cart button".

Bottom Screenshot: Order Summary

This screenshot shows the "Order Summary" page with the same list of items and their details. The total is listed as "TOTAL: \$15336". An orange callout box points to the "Check out" button at the bottom right with the text: "Clicking check-out will move users to check-out page for final review."

TOTAL: \$15336

Billing Address

Full Name...
 Email...
 Address...
 City...
 Zip... Country...

Payment

Accepted Cards
   

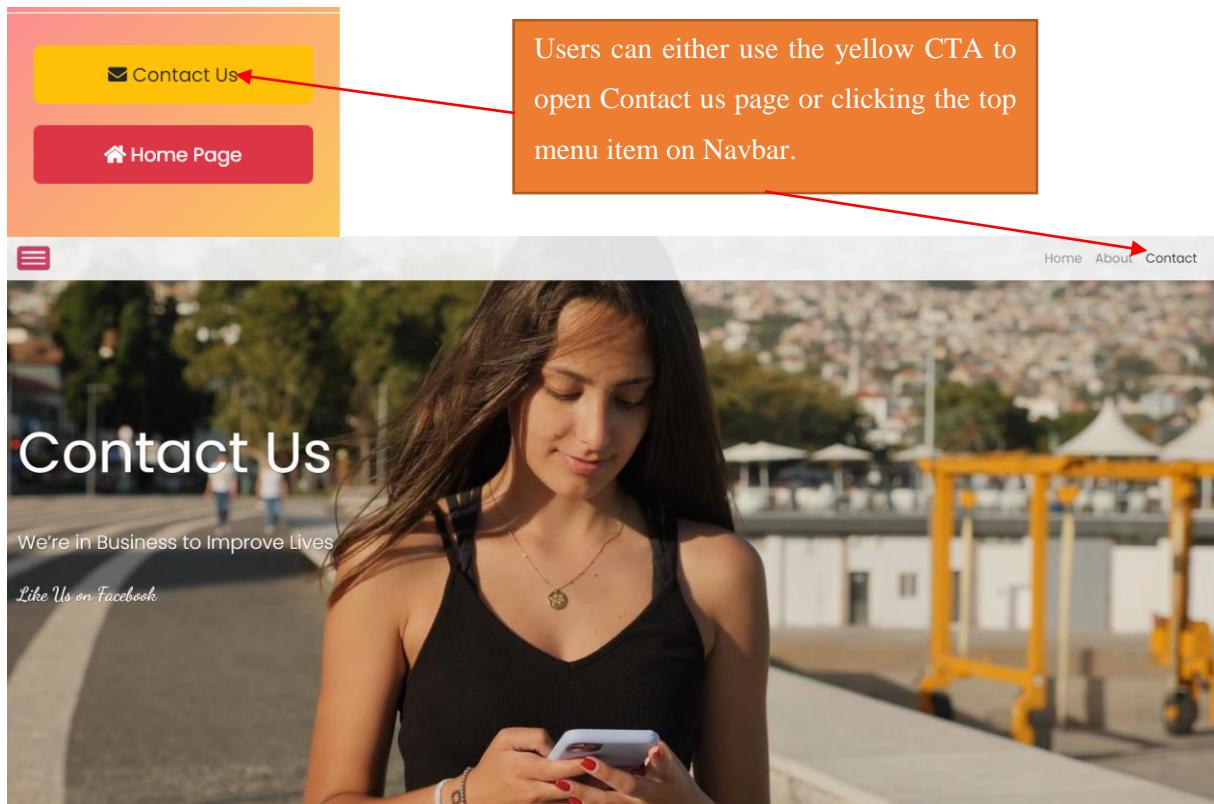
Name on Card...
 Credit card number...
 Exp Month...
 Exp Year... CVV...
 Shipping address same as billing

Place order

Cusomters – fill in information and place your order.

Each Purchase Order placed by buyer for goods and/or services is subject to these standard purchase terms and the terms of the applicable Purchase Order, and is conditional upon Supplier's agreement to such terms. Supplier shall be deemed to have agreed to be bound by such terms by accepting the Purchase Order, delivering the goods, and/or performing the services.

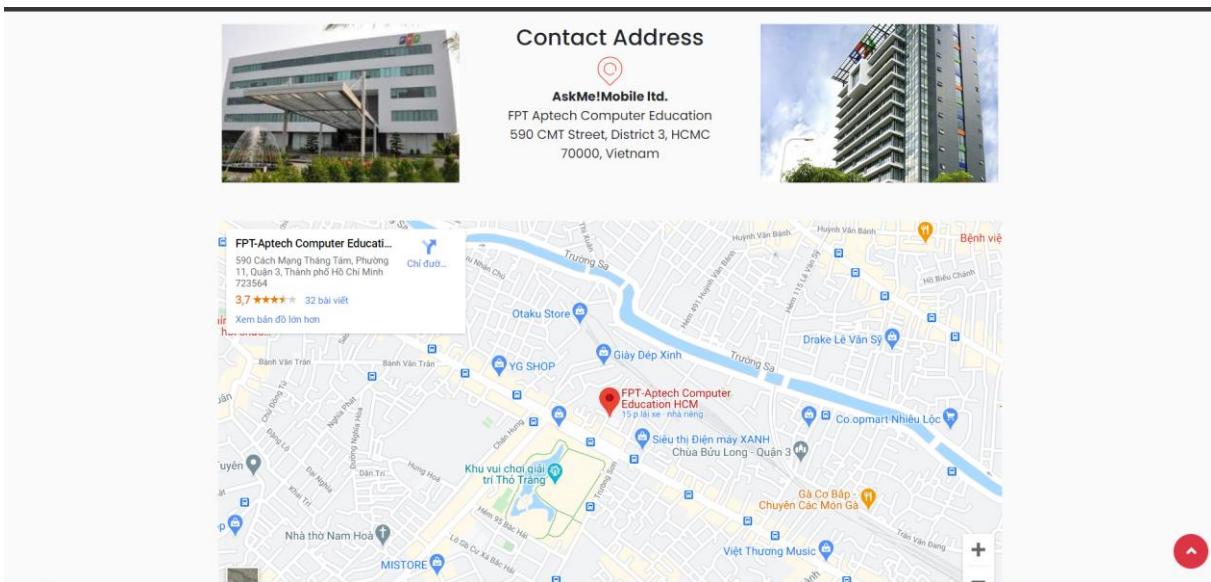
7.2.8 Contact Us



7.2.9 Contact Us – Email & Geolocation

In the Contact Us page, users are provided with several link to connect with us through Social Media. If they wish to directly send us an e-message, there are two links to provide users with options to connect with us through emails or a submit form.

The form is titled "Have a Problem to report?". It includes a "Send Us Feedback" button with a pen icon. Below the title are fields for "Your Name" and "Email Address". There is also a "Your Feedback" text area with a small icon. At the bottom is a yellow "Submit" button and a red circular icon with an upward arrow.



Our office location can be found at the bottom of Contact Us page

7.2.10 Footer

More information about our website and company will be displayed in the footer session.

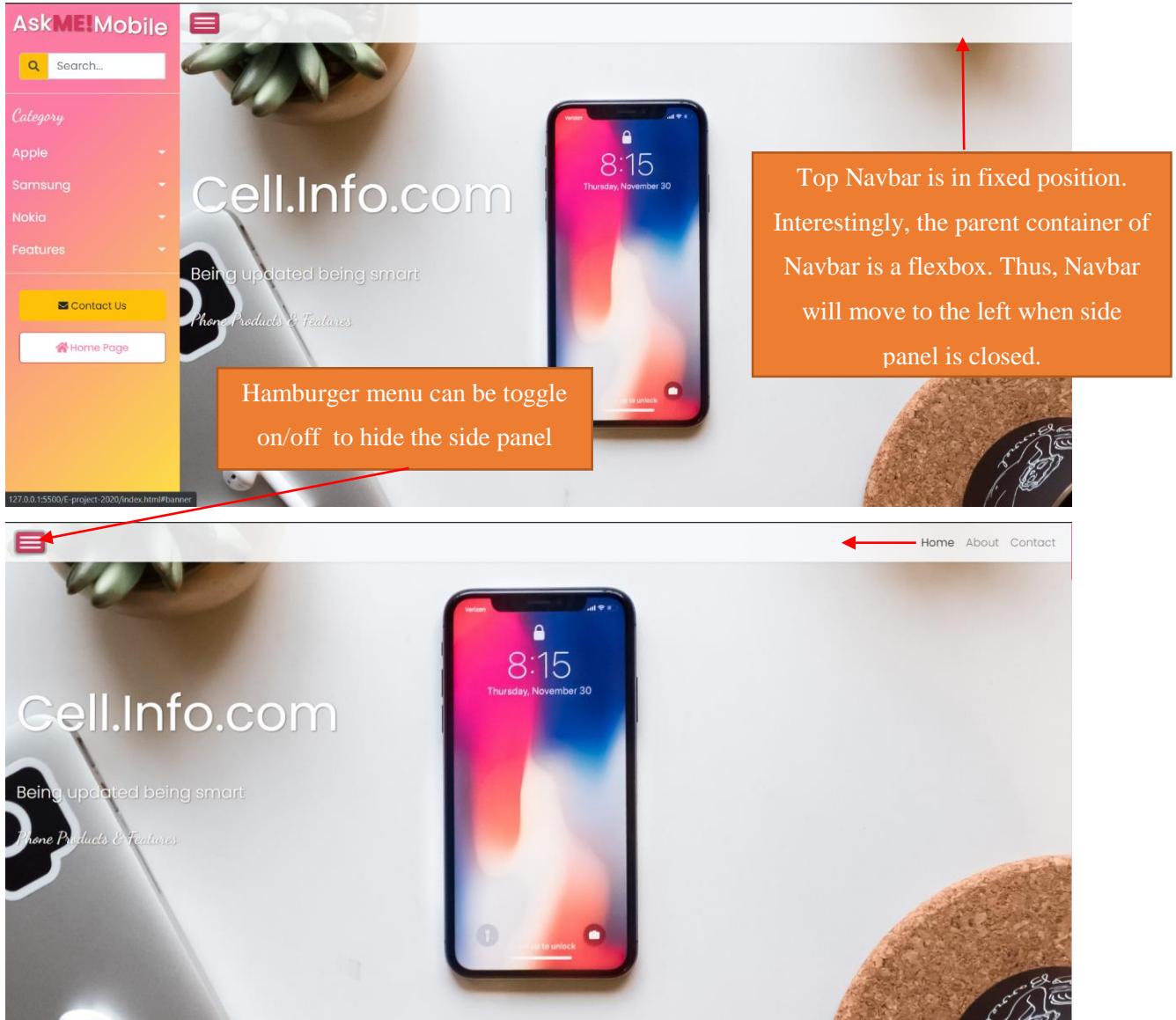
The screenshot shows the footer area of the AskME! Mobile website. On the left, there's a sidebar with a yellow-to-orange gradient background containing a search bar, category dropdowns for Apple, Samsung, Nokia, and Features, and contact links for 'Contact Us' and 'Home Page'. The main content area has a light gray background. At the top of this area, there are logos for iPhone, SAMSUNG, NOKIA, BlackBerry, coolpad, and VSMART. Below these are three columns: 'Cell.info.com' (with a note about being a proud member of the HCMC community), 'Blogs' (listing articles like 'The 5 Secrets You Will Never Know About Your Phones.' and 'The 10 Steps Needed For Putting Smart Phones Into Action.'), and 'Instagram' (showing a grid of nine photos related to technology and lifestyle). A small note at the bottom states '© 2020 Developed by group 3, class TI-2006-MI, ACCP 6775, Semester I, FPT Aptech HCMC Center'.

8 DEVELOPER'S GUIDE

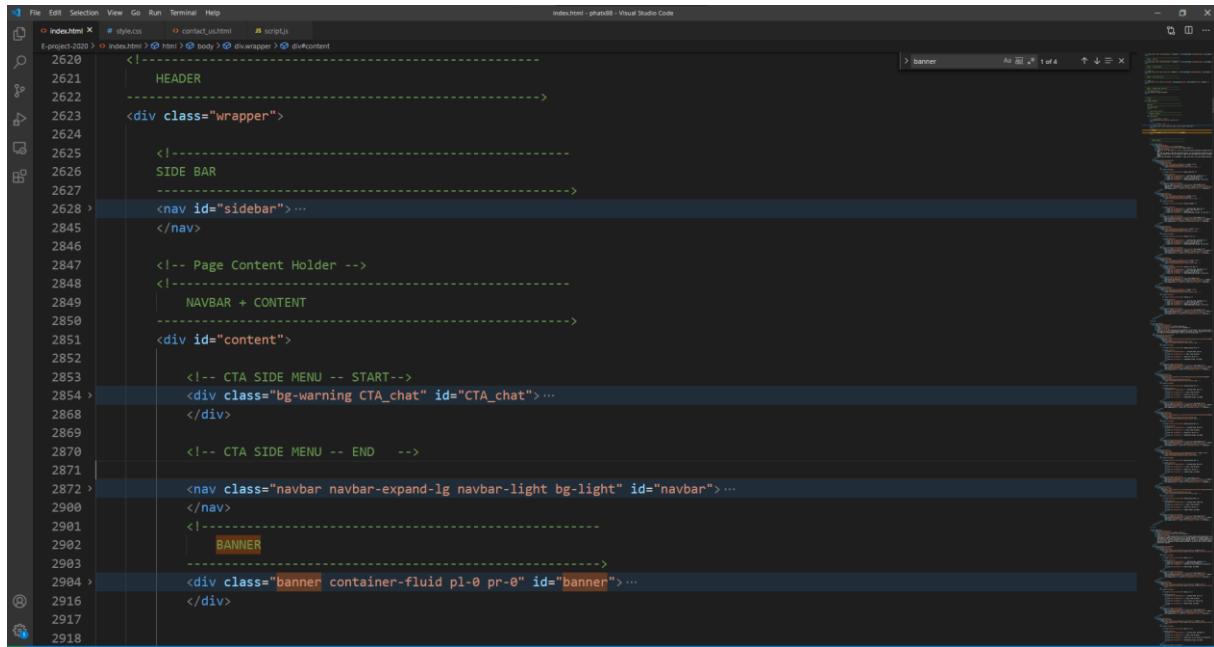
8.1 Home page

8.1.1 Bootstrap layout

Cell INFO.COM is built using Bootstrap 4 Framework, The Home Page template is the standard template with navigation bar on top, a fixed side menu, main content will be in the middle and footer section at the bottom of the page.



HTML codes:

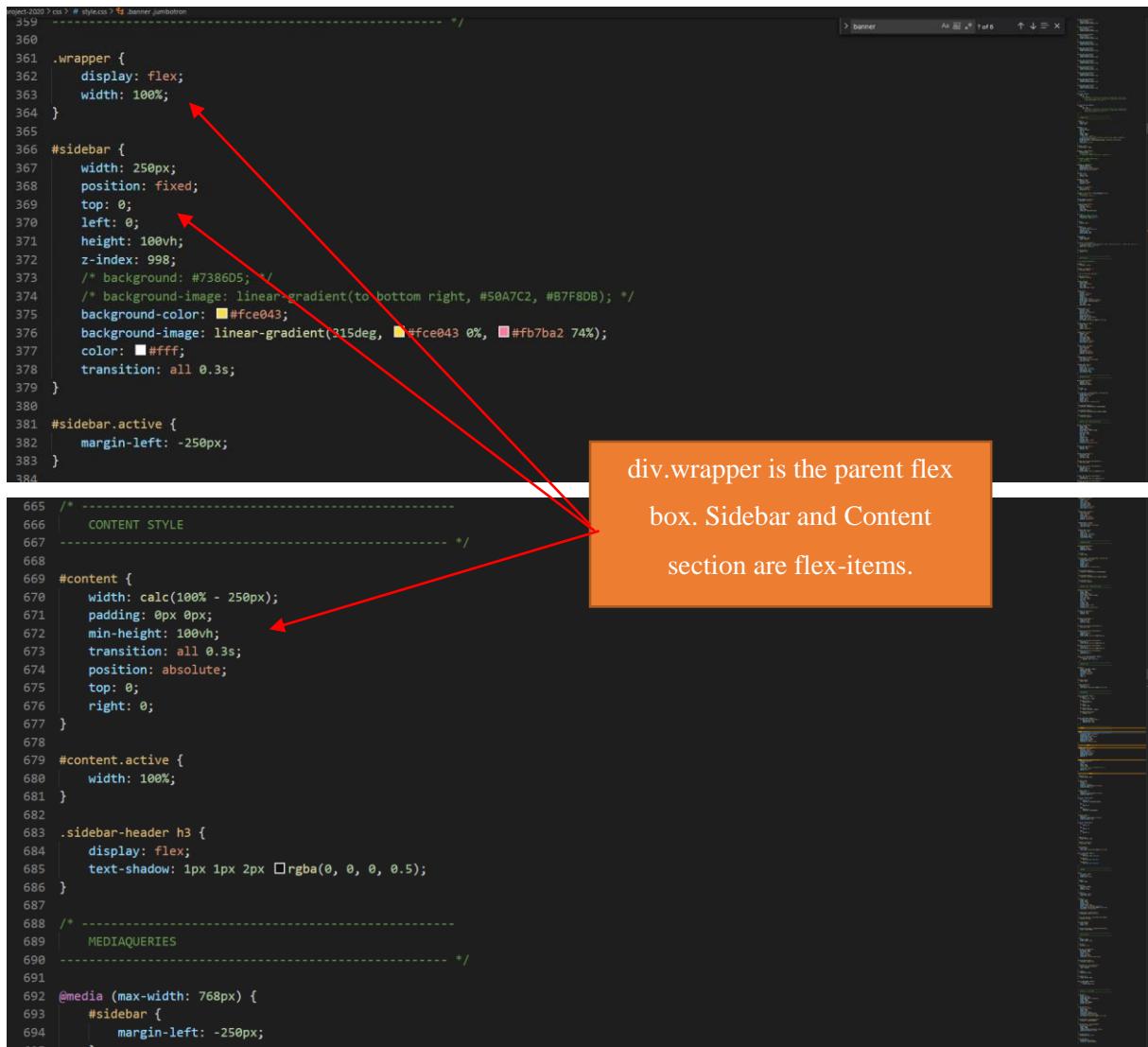


```

2628 <!-- HEADER -->
2629 <div class="wrapper">
2630   <!-- SIDE BAR -->
2631   <nav id="sidebar"> ...
2632 </nav>
2633 
2634 <!-- Page Content Holder -->
2635 <!-- NAVBAR + CONTENT -->
2636 
2637 <div id="content">
2638   <!-- CTA SIDE MENU -- START-->
2639   <div class="bg-warning CTA_chat" id="CTA_chat"> ...
2640 </div>
2641 
2642   <!-- CTA SIDE MENU -- END -->
2643 
2644   <nav class="navbar navbar-expand-lg navbar-light bg-light" id="navbar"> ...
2645 </nav>
2646 
2647 <!-- BANNER -->
2648 <div class="banner container-fluid pl-0 pr-0" id="banner"> ...
2649 </div>
2650
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```

CSS:

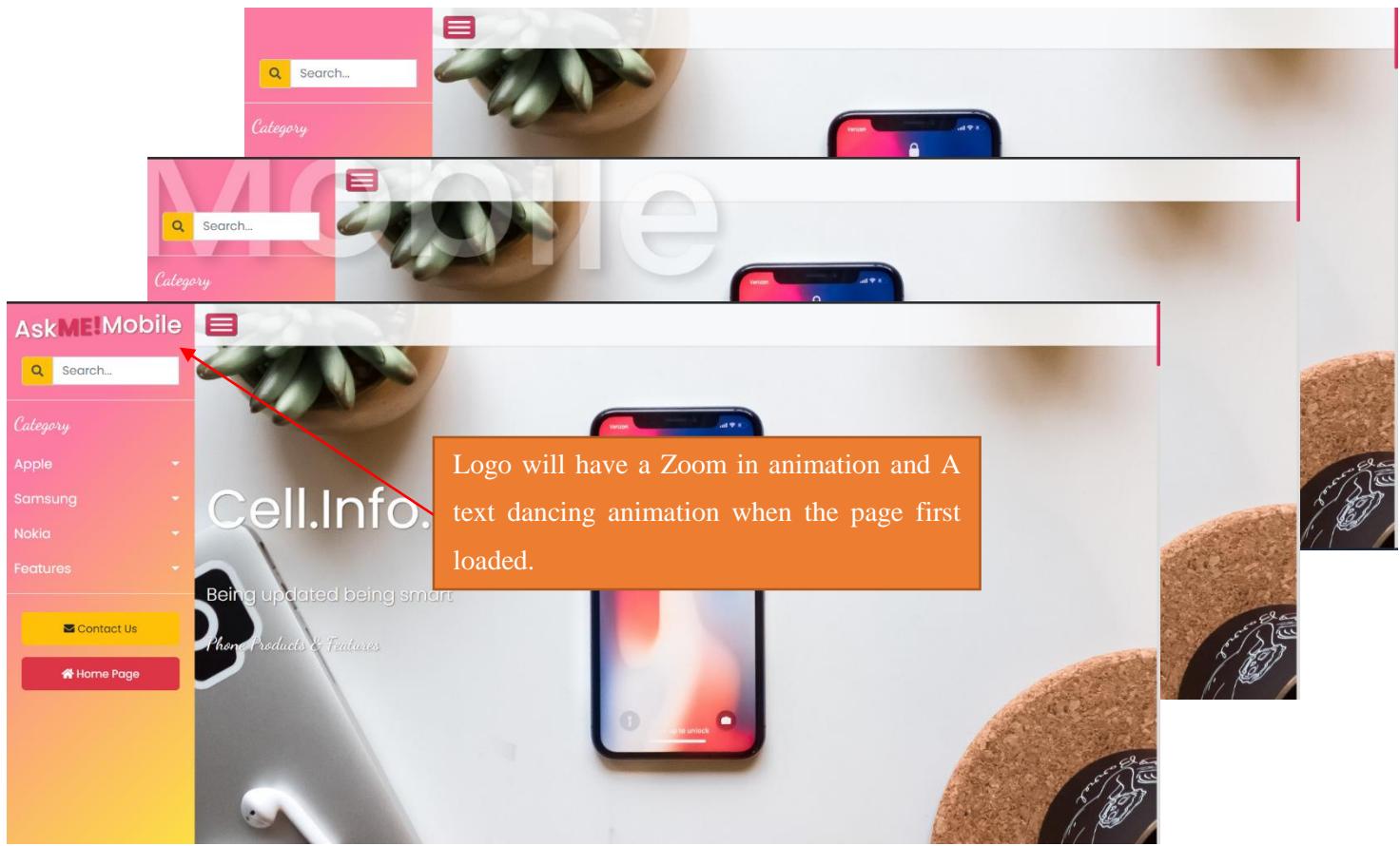


div.wrapper is the parent flex box. Sidebar and Content section are flex-items.

```

359 .wrapper {
360   display: flex;
361   width: 100%;
362 }
363 
364 #sidebar {
365   width: 250px;
366   position: fixed;
367   top: 0;
368   left: 0;
369   height: 100vh;
370   z-index: 998;
371   /* background: #7386D5; */
372   /* background-image: linear-gradient(to bottom right, #50A7C2, #B7F8DB); */
373   background-color: #fce043;
374   background-image: linear-gradient(15deg, #fce043 0%, #fb7ba2 74%);
375   color: #fff;
376   transition: all 0.3s;
377 }
378 
379 
380 #sidebar.active {
381   margin-left: -250px;
382 }
383 
384 
385 /* ----- */
386 /* CONTENT STYLE */
387 /* ----- */
388 
389 #content {
390   width: calc(100% - 250px);
391   padding: 0px 0px;
392   min-height: 100vh;
393   transition: all 0.3s;
394   position: absolute;
395   top: 0;
396   right: 0;
397 }
398 
399 #content.active {
400   width: 100%;
401 }
402 
403 .sidebar-header h3 {
404   display: flex;
405   text-shadow: 1px 1px 2px rgba(0, 0, 0, 0.5);
406 }
407 
408 /* ----- */
409 /* MEDIAQUERIES */
410 /* ----- */
411 
412 @media (max-width: 768px) {
413   #sidebar {
414     margin-left: -250px;
415   }
416 }
417 
```

8.1.2 Logo Animation



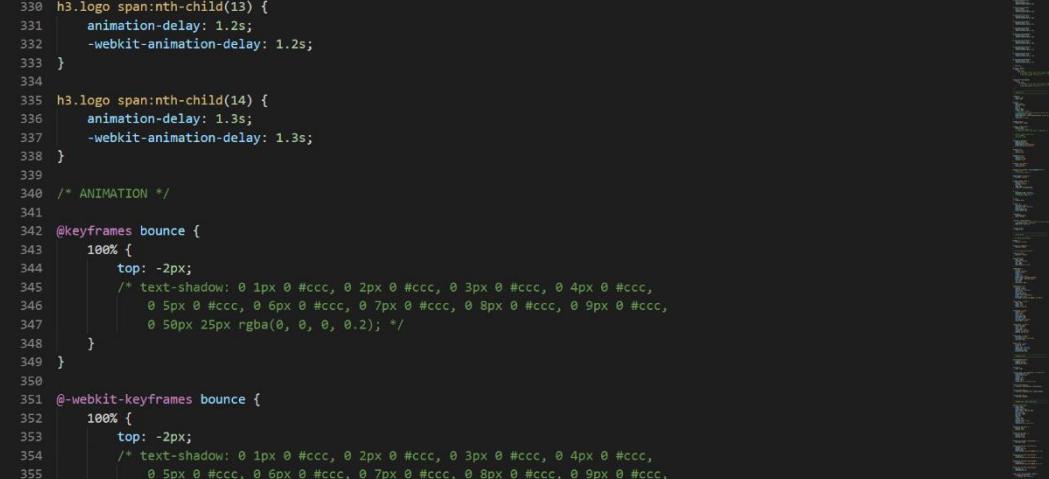
HTML code:

```
2622 <div class="wrapper">
2623   <!--
2624     SIDE BAR
2625   -->
2626   <nav id="sidebar">
2627     <div class="sidebar-header">
2628       <h3 id="logo_askme_home" class="logo">
2629         <span>A</span>
2630         <span>s</span>
2631         <span>k</span>
2632         <span><strong>C</strong></span>
2633         <span><strong>E</strong></span>
2634         <span><strong>I</strong></span>
2635         <span>M</span>
2636         <span>o</span>
2637         <span>b</span>
2638         <span>i</span>
2639         <span>l</span>
2640         <span>e</span>
2641       </h3>
2642     </div>
2643   </div>
2644   <ul class="list-unstyled CTAs mb-0">...
2645   </ul>
2646   <ul class="list-unstyled components" id="category">...
2647   </ul>
2648   <ul class="list-unstyled CTAs pt-0">...
2649   </ul>
2650 </nav>
```

CSS Code:

```
224
225 /* LOGO JUMP IN */
226
227 h3#logo_askme_home {
228     position: relative;
229     left: -100%;
230     transform: scale(10);
231     opacity: 0;
232     animation: zoomIn 1s ease-in-out forwards;
233     animation-delay: 3.2s;
234 }
235
236 @keyframes zoomIn {
237     to {
238         opacity: 1;
239         left: 0;
240         transform: scale(1);
241     }
242 }
243
244 /* CHARACTER JUMP WAVES */
245
246 h3.logo {
247     cursor: default;
248     /* position: absolute; */
249     width: 100%;
250     height: 30px;
251     margin: auto;
252     display: block;
253     text-align: center;
254 }
```

```
256 h3.logo span {  
257     position: relative;  
258     top: 5px;  
259     display: inline-block;  
260     animation: bounce 1s ease-in-out infinite alternate;  
261     -webkit-animation: bounce 1s ease-in-out infinite alternate;  
262     font-size: 32px;  
263     color: ■ #fff;  
264     /* text-shadow: 0 1px 0 #ccc, 0 2px 0 #ccc, 0 3px 0 #ccc, 0 4px 0 #ccc,  
265        0 5px 0 #ccc, 0 6px 0 transparent, 0 7px 0 transparent, 0 8px 0 transparent,  
266        0 9px 0 transparent, 0 10px 10px rgba(0, 0, 0, 0.4); */  
267 }  
268 }
```



The screenshot shows a code editor interface with a sidebar on the left containing project navigation and file/folder structures. The main area displays a CSS file named `style.css` with the following content:

```
328 }
329
330 h3.logo span:nth-child(13) {
331   animation-delay: 1.2s;
332   -webkit-animation-delay: 1.2s;
333 }
334
335 h3.logo span:nth-child(14) {
336   animation-delay: 1.3s;
337   -webkit-animation-delay: 1.3s;
338 }
339
340 /* ANIMATION */
341
342 @keyframes bounce {
343   100% {
344     top: -2px;
345     /* text-shadow: 0 1px 0 #ccc, 0 2px 0 #ccc, 0 3px 0 #ccc, 0 4px 0 #ccc,
346      0 5px 0 #ccc, 0 6px 0 #ccc, 0 7px 0 #ccc, 0 8px 0 #ccc, 0 9px 0 #ccc,
347      0 50px 25px rgba(0, 0, 0, 0.2); */
348   }
349 }
350
351 @-webkit-keyframes bounce {
352   100% {
353     top: -2px;
354     /* text-shadow: 0 1px 0 #ccc, 0 2px 0 #ccc, 0 3px 0 #ccc, 0 4px 0 #ccc,
355      0 5px 0 #ccc, 0 6px 0 #ccc, 0 7px 0 #ccc, 0 8px 0 #ccc, 0 9px 0 #ccc,
356      0 50px 25px rgba(0, 0, 0, 0.2); */
357   }
358 }
359 }
```

8.2 Top Nav Bar

8.2.1 Hamburger Menu



HTML code:

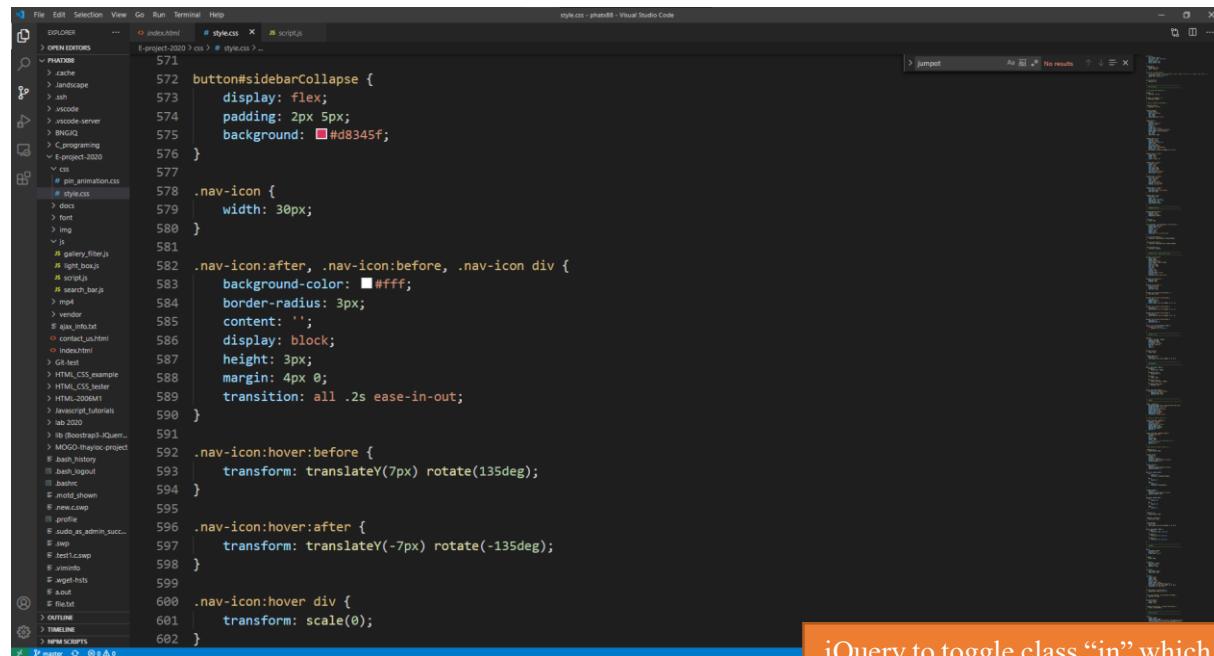
A screenshot of Visual Studio Code showing the file "index.html". The code is focused on the "NAVBAR + CONTENT" section. It includes a "content" div, a "CTA SIDE MENU" section, and a "navbar" section with a "collapse" button and a "SupportedContent" div containing a list of items. The code uses Bootstrap classes like "nav", "collapse", and "navbar-expand-lg". The line numbers 2849 through 2892 are visible on the left.

```
<!-- CTA SIDE MENU -- START-->
<div class="bg-warning CTA_chat" id="CTA_chat">...
</div>

<!-- CTA SIDE MENU -- END -->

<nav class="navbar navbar-expand-lg navbar-light bg-light" id="navbar">
  <div class="container-fluid">
    <button type="button" id="sidebarCollapse" class="btn btn-secondary">
      <div class="nav-icon">
        <div></div>
      </div>
      <button class="btn btn-dark d-inline-block d-lg-none ml-auto" type="button"
        data-toggle="collapse" data-target="#navbarSupportedContent"
        aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
        <i class="fas fa-align-justify"></i>
      </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="nav navbar-nav ml-auto">
        <li class="nav-item active">
          <a class="nav-link hvr-underline-from-center" href="#">Home</a>
          id="topHome">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link hvr-underline-from-center" href="#">About</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

CSS code:



```

button#sidebarCollapse {
    display: flex;
    padding: 2px 5px;
    background: #d8345f;
}

.nav-icon {
    width: 30px;
}

.nav-icon:after, .nav-icon:before, .nav-icon div {
    background-color: #fff;
    border-radius: 3px;
    content: '';
    display: block;
    height: 3px;
    margin: 4px 0;
    transition: all .2s ease-in-out;
}

.nav-icon:hover:before {
    transform: translateY(7px) rotate(135deg);
}

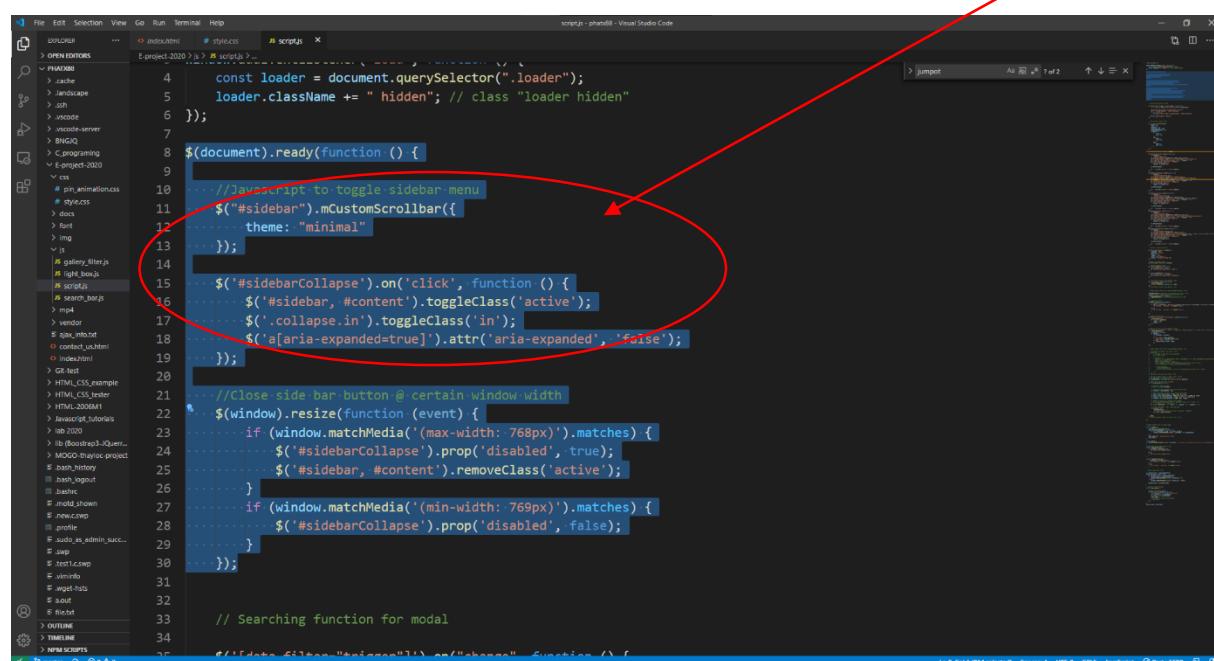
.nav-icon:hover:after {
    transform: translateY(-7px) rotate(-135deg);
}

.nav-icon:hover div {
    transform: scale(0);
}

```

jQuery to toggle class “in” which will move side panel to the left by 250px

JS code:



```

const loader = document.querySelector(".loader");
loader.className += " hidden"; // class "loader hidden"

$(document).ready(function () {
    //Script to toggle sidebar menu
    $("#sidebar").mCustomScrollbar({
        theme: "minimal"
    });

    $('#sidebarCollapse').on('click', function () {
        $('#sidebar, #content').toggleClass('active');
        $('.collapse.in').toggleClass('in');
        $('[aria-expanded=true]').attr('aria-expanded', 'false');
    });

    //Close side bar button @ certain window width
    $(window).resize(function (event) {
        if (window.matchMedia('(max-width: 768px)').matches) {
            $('#sidebarCollapse').prop('disabled', true);
            $('#sidebar, #content').removeClass('active');
        }
        if (window.matchMedia('(min-width: 769px)').matches) {
            $('#sidebarCollapse').prop('disabled', false);
        }
    });
});

```

The side panel will automatically turn off and replaced by top navigation bar when the window view is less than 992px, this function is to help with responsiveness when browsing on mobile devices and tablets.

The screenshot shows a mobile browser displaying the Cell.Info.com website. The page includes a smartphone image, a potted succulent, and the text "Cell.Info.com" and "Being updated being smart". Below the phone is the subtext "Phone Products & Features". The Visual Studio Code editor is overlaid on the browser window, showing the file structure in the Explorer and the script.js file in the Editor tab. A red arrow points from the sidebar collapse code in the script.js file to the "detail_phone_1.html" file in the Explorer, indicating the specific file being modified.

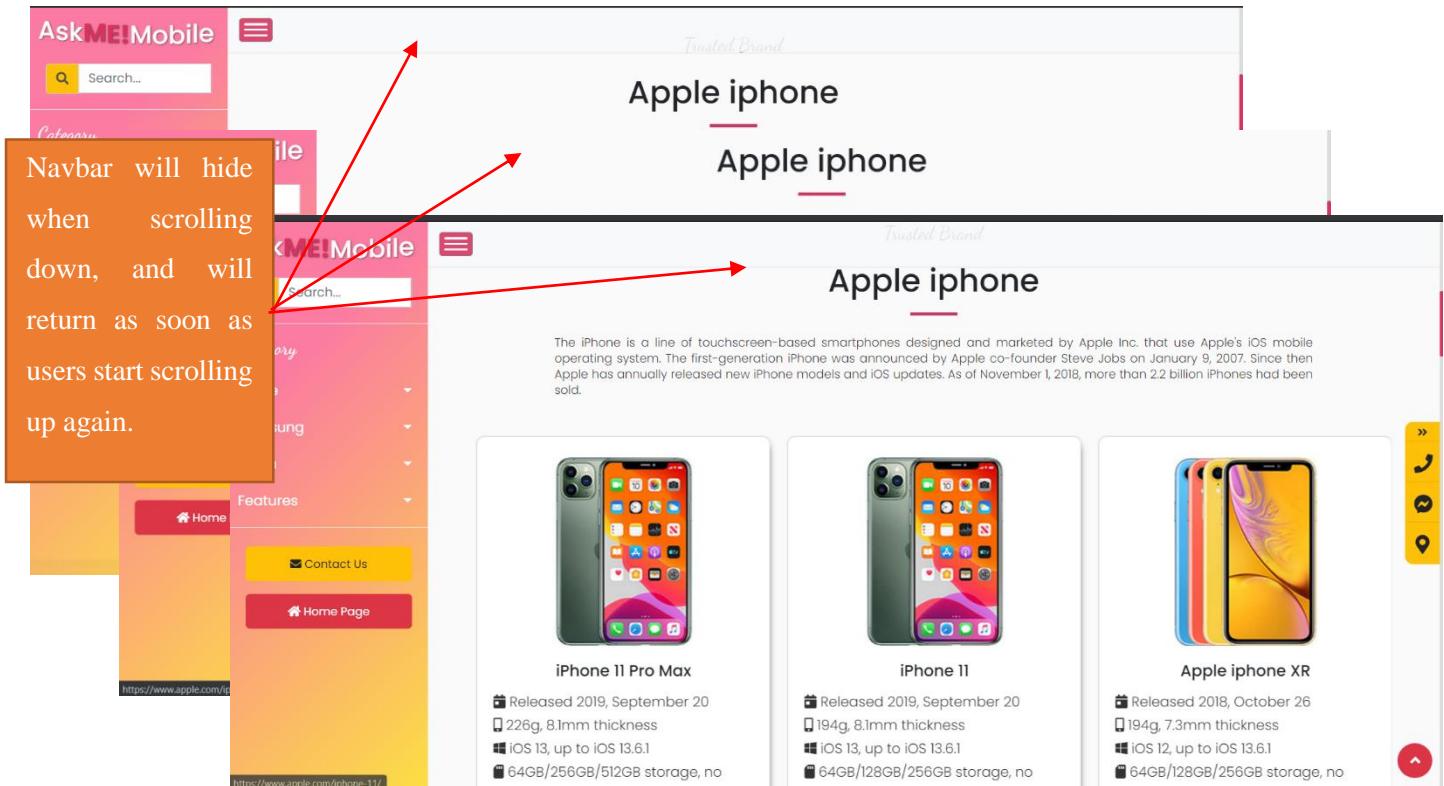
```

13 // -----
14 // Side bar menu Toggle on/of function
15 //----- */
16 //Javascript to toggle sidebar menu
17 $("#sidebar").mCustomScrollbar({
18     theme: "minimal"
19 });
20
21 $('#sidebarCollapse').on('click', function () {
22     $('#sidebar, #content').toggleClass('active');
23     $('.collapse-in').toggleClass('in');
24     $('.a[aria-expanded=true]').attr('aria-expanded', 'false');
25 });
26
27 //Close side bar button @ certain window width
28 $(window).resize(function (event) {
29     if (window.matchMedia('(max-width: 992px)').matches) {
30         $('#sidebarCollapse').prop('disabled', true);
31         $('#sidebarCollapse').addClass('d-none');
32         $('#sidebar, #content').removeClass('active');
33     }
34     if (window.matchMedia('(min-width: 993px)').matches) {
35         $('#sidebarCollapse').prop('disabled', false);
36         $('#sidebarCollapse').removeClass('d-none');
37     }
38 });
39
40 })
41
42 /* -----
43 Table filter for tabular information in modal 1 to mo
44

```

jQuery selector to add 'disable' property to the hamburger button. Note that we already used @media queries to handle screen responsive in CSS. For more information about the CSS, refer to 8.4.3

8.2.2 Navbar Auto hide on scroll



JS code:

```
File Edit Selection View Go Run Terminal Help
DOSLER ...
OPEN EDITORS ...
E-project-2020 > js > script.js ...
312 }
313
314 function toggleCalltoClick() {
315   if ($(window).scrollTop() == 0) {
316     $('.CTA_chat , .CTA_chat > a').fadeOut("slow");
317   }
318   else {
319     $('.CTA_chat , .CTA_chat > a').fadeIn("slow");
320   }
321 }
322
323 // hiding navbar when scroll
324
325 var prevScrollpos = window.pageYOffset;
326 window.onscroll = function () {
327   var currentScrollPos = window.pageYOffset;
328   if (prevScrollpos > currentScrollPos) {
329     document.getElementById("navbar").style.top = "0";
330   } else {
331     document.getElementById("navbar").style.top = "-100px";
332   }
333   prevScrollpos = currentScrollPos;
334 }
335
336 // Contact Us Video function
337 function deferVideo() {
338
339   //defer html5 video loading
400   $("video source").each(function () {
401     var sourceFile = $(this).attr("data-src");
402     $(this).attr("src", sourceFile);
403     var video = this.parentElement;
```

8.3 Side Panel / Side navbar

8.3.1 Search Bar & Searching Algorithm

Similar to a Popover in Bootstrap. We created a custom Div to contain a list of product items. The custom “popup” is hidden and will show only when users start typing. User can use enter/exit key or clicking outside over body to “hide” the “popup” window.

Then after filling a few keywords, a JS algorithm will start to filter out any list items that is not a match and hide it.

HTML code:

The screenshot shows two tabs open in Visual Studio Code: 'index.html' and 'script.js'. Both tabs are displaying code related to a search bar and its popover.

index.html:

```
<div class="wrapper">
  <!-- HEADER -->
  <!-- SIDE BAR -->
  <nav id="sidebar">
    <div class="sidebar-header">...</div>
    <ul class="list-unstyled CTAs mb-0">
      <li class="trigger">
        <form action="">
          <div class="input-group">
            <div class="input-group-prepend">
              <span class="input-group-text text-black bg-warning hvr-icon-grow" id="basic-addon1"><i class="fas fa-search hvr-icon" aria-hidden="true"></i></span>
            </div>
            <input type="text" class="form-control" id="searchInput" placeholder="Search..." aria-describedby="basic-addon1" data-toggle="tooltip" data-placement="top" title="Try Search Something!">
          </div>
          <div class="bubble d-none"></div>
        </form>
      <!-- SEARCH BAR POPOVER -->
      <div class="popover_search d-none">
        <ul class="popover_html list-unstyled" id="fbody">
          <li>
            <a href="#iphone">...</a>
          </li>
          <li>
            <a href="#iphone">...</a>
          </li>
          <li>
            <a href="#iphone">...</a>
          </li>
          <li>
            <a href="#iphone">...</a>
          </li>
          <li>
            <a href="#samsung">...</a>
          </li>
          <li>
            <a href="#samsung">...</a>
          </li>
          <li>
            <a href="#samsung">...</a>
          </li>
          <li>
            <a href="#nokia">...</a>
          </li>
        </ul>
      </div>
    </li>
  </ul>
</nav>
```

script.js:

```
</form>
<!-- SEARCH BAR POPOVER -->
<div class="popover_search d-none">
  <ul class="popover_html list-unstyled" id="fbody">
    <li>
      <a href="#iphone">...</a>
    </li>
    <li>
      <a href="#iphone">...</a>
    </li>
    <li>
      <a href="#iphone">...</a>
    </li>
    <li>
      <a href="#iphone">...</a>
    </li>
    <li>
      <a href="#samsung">...</a>
    </li>
    <li>
      <a href="#samsung">...</a>
    </li>
    <li>
      <a href="#samsung">...</a>
    </li>
    <li>
      <a href="#nokia">...</a>
    </li>
  </ul>
</div>
```

CSS code:

```
File Edit Selection View Go Run Terminal Help
```

style.css - phant08 - Visual Studio Code

```
File Edit Selection View Go Run Terminal Help
```

style.css - phant08 - Visual Studio Code

style.css

```
471
472 /* POP Up Search
473 */
474 /* FIX SEARCH BAR OVERFLOW */
475
476 #sidebar * {
477     overflow: visible;
478 }
479
480 #sidebar ul.components * {
481     overflow: hidden;
482 }
483
484
485
486 /* END FIX SEARCH BAR OVERFLOW */
487
488 .container_search {
489     position: relative;
490 }
491
492 .popover_search {
493     width: 300px;
494     position: absolute;
495     left: 189px;
496     top: -30px;
497     background-color: white;
498 }
499
500 .bubble:after {
501     content: '';
502     position: absolute;
503     width: 0;
504     height: 0;
505     z-index: 1;
506     border-style: solid;
507     border-color: transparent black transparent transparent;
508     border-width: 15px 15px 15px 0;
509     left: 103px;
510     top: 25px;
511     margin-top: -20px;
512 }
513
514 .popover_html li a {
515     display: block;
516     overflow: hidden;
517     padding: 6px !important;
518     color: #333;
519     font-size: 12px;
520     margin-bottom: 0px;
521     border: thin solid #9c8f8f;
522     border-left: none;
523     box-shadow: 2px 2px 1px rgba(0, 0, 0, 0.2);
524 }
525
526 .popover_html li a img {
527     width: 60px;
528     height: auto;
529     float: left;
530     margin: 0 6px 0 0;
531 }
532
533 .popover_html li a h3 f
```

“popup” window is in position absolute to the left of parent “search” div. We encounter “overflown” problem because the main root element side panel prevent all child elements to be wider than parent’s element. The following code is to address this problem

JS code:

```
1 //SEARCH BAR PART 1 - CODE TO HANDLE SEARCH/FILTER FUNCTION ON SEARCH BAR
2
3 // INITIATE FILTER FUNCTION ON EVENT KEY DOWN
4 $("#searchInput").keydown(function () {
5     //split the current value of searchInput
6     var data = this.value.toUpperCase().split(" ");
7     //create a jquery object of the rows
8     var jo = $("#body").find("li");
9     if (this.value == "") {
10         jo.show();
11         return;
12     }
13     //hide all the rows
14     jo.hide();
15
16     //Recursively filter the jquery object to get results.
17     jo.filter(function (i, v) {
18         var $t = $(this);
19         for (var d = 0; d < data.length; ++d) {
20             if ($t.text().toUpperCase().indexOf(data[d]) > -1) {
21                 return true;
22             }
23         }
24         return false;
25     }).show();
26
27 }).focus(function () {
28
29     this.value = "";
30     $(this).css({ "color": "black" });
31     $(this).unbind('focus');
32 });
33
34
35 //SEARCH BAR PART 2 - CODE TO HANDLE ENTER/EXIT KEY ON BUBBLE
```

```
31     $(this).unbind('focus');
32 }.css({ "color": "#C0C0C0" });
33
34
35 //SEARCH BAR PART 2 - CODE TO HANDLE ENTER/EXIT KEY ON BUBBLE
36
37 $("#searchInput").keyup(function (e) {
38     e.preventDefault();
39     var keycode = (e.keyCode ? e.keyCode : e.which);
40     $('.popover_search').removeClass('d-none');
41     $('.bubble').removeClass('d-none');
42     if ($(this).val() == "") {
43         close_search();
44     }
45     if (keycode == "27") {
46         close_search();
47     }
48 });
49
50 //Exit search bar when click on body
51 $(document).mouseup(e => {
52     if (!( $('#searchInput').is(e.target) // if the target of the click isn't the container...
53       && !$('.popover_search').is(e.target)) // ... nor a descendant of the container
54     ) {
55         close_search();
56     }
57 });
58
59 function close_search() {
60     $('.popover_search').addClass('d-none');
61     $('.bubble').addClass('d-none');
62 }
```

Part 1:

Algorithm to take input key, transfer to Uppercase value and start matching with value in “li”.

It will hide all li, only show those that match keywords.

Part 2:

Is to handle enter and exit keys, it determines which input on keyboard and mouse to toggle the “popup” window.

8.3.2 Drop Down Menus

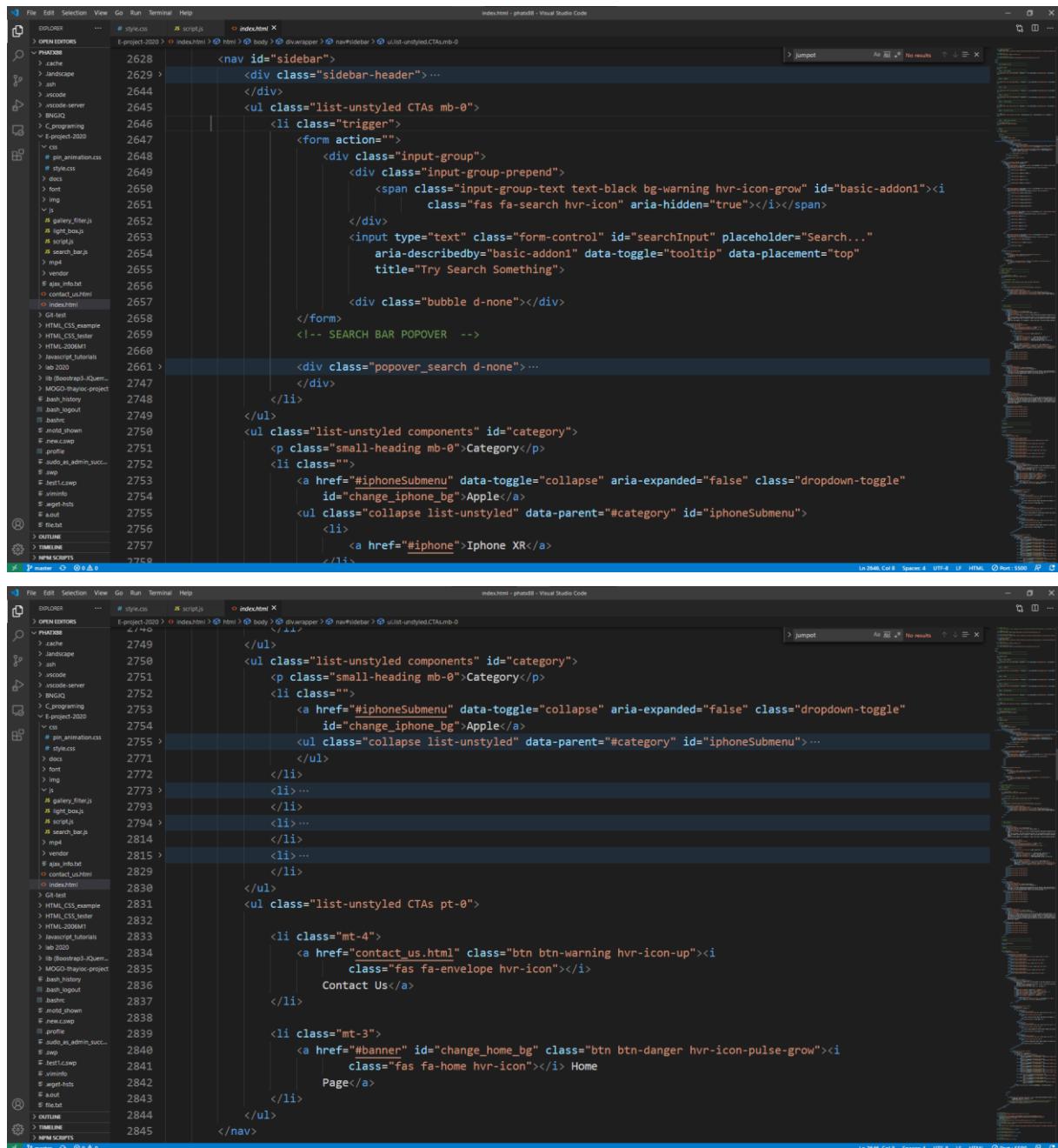
The image displays three screenshots of mobile websites illustrating the implementation of drop-down menus and call-to-action (CTA) buttons.

Screenshot 1: A mobile website for "AskME! Mobile". The top navigation bar includes a search bar and a menu icon. The left sidebar, titled "Category", contains a drop-down menu for "Apple" which lists various iPhone models: iPhone XR, iPhone SE (2020), iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, and iPhone 11 Pro Max. A red arrow points from the text "Drop down menu is built upon Bootstrap framework, it will have similar structure as standard Bootstrap navigation bar. Clicking the Nav-link item will trigger scrolling animation toward the desired anchor link." to the "Apple" category dropdown.

Screenshot 2: Another view of the "AskME! Mobile" website. The "Apple" category dropdown is open, showing the same list of iPhone models. A red arrow points from the "Apple" category dropdown to the "iPhone XR" option.

Screenshot 3: A mobile website for "Cell.Info.com". The top navigation bar includes a search bar and a menu icon. The left sidebar, titled "Category", contains a drop-down menu for "Apple" which lists various iPhone models. A red arrow points from the "Home Page" CTA button in the sidebar to an orange box containing the text "CTA buttons to navigate between the pages.".

HTML code:



```
<nav id="sidebar">
  <div class="sidebar-header">...
  </div>
  <ul class="list-unstyled CTAs mb-0">
    <li class="trigger">
      <form action="">
        <div class="input-group">
          <div class="input-group-prepend">
            <span class="input-group-text text-black bg-warning hvr-icon-grow" id="basic-addon1"><i class="fas fa-search hvr-icon" aria-hidden="true"></i></span>
          </div>
          <input type="text" class="form-control" id="searchInput" placeholder="Search..." aria-describedby="basic-addon1" data-toggle="tooltip" data-placement="top" title="Try Search Something" style="width: 100%;"/>
        </div>
        <div class="bubble d-none"></div>
      </form>
      <!-- SEARCH BAR POPOVER -->
      <div class="popover_search d-none">
        <div class="list-unstyled components" id="category">
          <p class="small-heading mb-0">Category</p>
          <li class="">
            <a href="#iphoneSubmenu" data-toggle="collapse" aria-expanded="false" class="dropdown-toggle" id="change_iphone_bg">Apple</a>
            <ul class="collapse list-unstyled" data-parent="#category" id="iphoneSubmenu">
              <li>
                <a href="#">Iphone XR</a>
              </li>
            </ul>
          </li>
        </ul>
        <ul class="list-unstyled components" id="category">
          <p class="small-heading mb-0">Category</p>
          <li class="">
            <a href="#iphoneSubmenu" data-toggle="collapse" aria-expanded="false" class="dropdown-toggle" id="change_iphone_bg">Apple</a>
            <ul class="collapse list-unstyled" data-parent="#category" id="iphoneSubmenu">
              <li>
                <a href="#">Iphone XR</a>
              </li>
            </ul>
          </li>
        </ul>
        <ul class="list-unstyled CTAs pt-0">
          <li class="mt-4">
            <a href="contact_us.html" class="btn btn-warning hvr-icon-up"><i class="fas fa-envelope hvr-icon"></i> Contact Us</a>
          </li>
          <li class="mt-3">
            <a href="#" id="change_home_bg" class="btn btn-danger hvr-icon-pulse-grow"><i class="fas fa-home hvr-icon"></i> Home Page</a>
          </li>
        </ul>
      </div>
    </li>
  </ul>
</nav>
```

CSS code:

The image shows two screenshots of Visual Studio Code side-by-side, displaying snippets of CSS code for a sidebar.

Top Snippet:

```
360 /* -----  
361 | SIDEBAR STYLE  
362 |----- */  
363  
364 .wrapper {  
365   display: flex;  
366   width: 100%;  
367 }  
368  
369 #sidebar {  
370   width: 250px;  
371   position: fixed;  
372   top: 0;  
373   left: 0;  
374   height: 100vh;  
375   z-index: 998;  
376   /* background: #7386D5; */  
377   /* background-image: linear-gradient(to bottom right, #50A7C2, #B7F8DB); */  
378   background-color: #fca043;  
379   background-image: linear-gradient(315deg, #fce043 0%, #fb7ba2 74%);  
380   color: #fff;  
381   transition: all 0.3s;  
382 }  
383  
384 #sidebar.active {  
385   margin-left: -250px;  
386 }  
387  
388 #sidebar .sidebar-header {  
389   padding: 10px;  
390   /* background: #6d7fcc; */
```

Bottom Snippet:

```
392 }  
393  
394 /* #sidebar .sidebar-header span {  
395   color: #d8345f;  
396   font-size: 1.2em;  
397 } */  
398  
399 #sidebar ul.components {  
400   padding: 0px 0px;  
401   padding-bottom: 10px;  
402   border-bottom: 1px solid #white;  
403   border-top: 1px solid #white;  
404 }  
405  
406 #sidebar ul p {  
407   color: #fff;  
408   padding: 10px;  
409 }  
410  
411 #sidebar ul li a {  
412   padding: 10px;  
413   font-size: 1.1em;  
414   display: block;  
415 }  
416  
417 #sidebar ul li a:hover {  
418   color: #fb7ba2;  
419   background: #fff;  
420 }  
421  
422 #sidebar ul li.active>a, a[aria-expanded="true"] {  
423   color: #fff.
```

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
E-project-2020> style.css > # style.css > ...
421
422 #sidebar ul li.active>a, a[aria-expanded="true"] {
423   color: #fff;
424   /* background: #6d7fcc; */
425 }
426
427 a[data-toggle="collapse"] {
428   position: relative;
429 }
430
431 .dropdown-toggle::after {
432   display: block;
433   position: absolute;
434   top: 50%;
435   right: 20px;
436   transform: translateY(-50%);
437 }
438
439 ul ul a {
440   font-size: 0.9em !important;
441   padding-left: 30px !important;
442   /* background: #6d7fcc; */
443 }
444
445 ul.CTAs {
446   padding: 20px;
447 }
448
449 ul.CTAs a {
450   text-align: center;
451   font-size: 0.9em !important;
452 }

```

JS code:

```

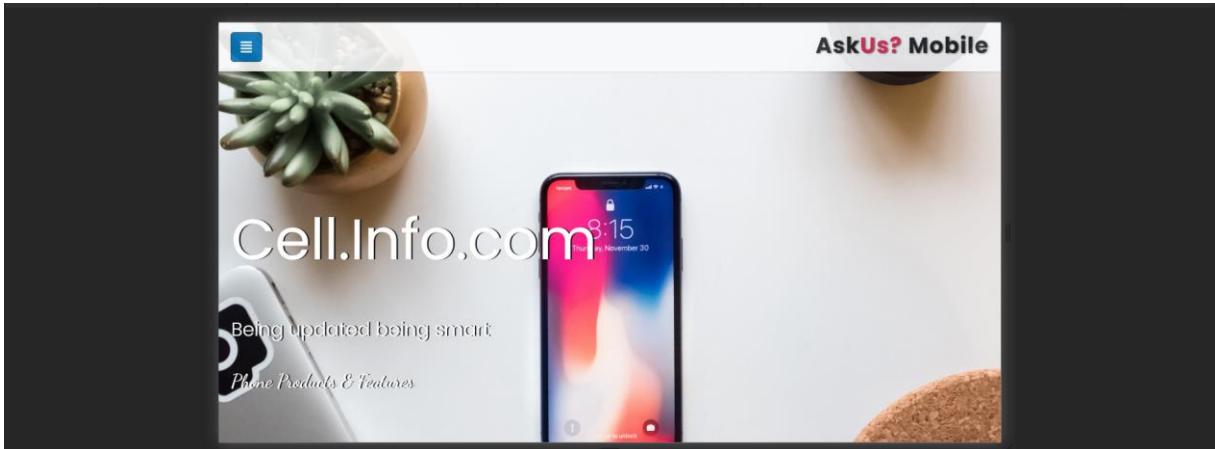
File Edit Selection View Go Run Terminal Help
OPEN EDITORS
E-project-2020> style.css > # style.css > ...
4 const loader = document.querySelector(".loader");
5 loader.className += " hidden"; // class "loader hidden"
6 });
7
8 $(document).ready(function () {
9
10   //Javascript to handle sidebar menu
11   $("#sidebar").mCustomScrollbar({
12     theme: "minimal"
13   });
14
15   $('#sidebarCollapse').on('click', function () {
16     $('#sidebar, #content').toggleClass('active');
17     $('.collapse.in').toggleClass('in');
18     $('a[aria-expanded=true]').attr('aria-expanded', 'false');
19   });
20
21   //Close side_bar button @ certain window width
22   $(window).resize(function (event) {
23     if (window.matchMedia('(max-width: 768px)').matches) {
24       $('#sidebarCollapse').prop('disabled', true);
25       $('#sidebar, #content').removeClass('active');
26     }
27     if (window.matchMedia('(min-width: 769px)').matches) {
28       $('#sidebarCollapse').prop('disabled', false);
29     }
30   });
31
32   // Searching function for modal
33
34

```

Dropdown menu use the standard code template from Bootstrap 4 to open/close dropdown items.

8.3.3 Side Panel Responsiveness on smaller screen

The side panel will close automatically when on medium screen or smaller (width < 992px)



CSS code:

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
PROJECTS
style.css
style.css
E-project-2020>css>style.css @media screen and (max-width: 640px)
708 /*
709  MEDIAQUERIES
710 -----
711 @media (max-width: 992px) {
712     #sidebar {
713         margin-left: -250px;
714     }
715     #sidebar.active {
716         margin-left: 0;
717     }
718     #content {
719         width: 100%;
720     }
721     #content.active {
722         width: calc(100% - 250px);
723     }
724     #sidebarCollapse {
725         display: none;
726     }
727     button#sidebarCollapse+button {
728         margin-left: 0 !important;
729     }
730     #content div.container-fluid {
731         padding-left: 15px;
732         padding-right: 15px;
733     }
734 }
735 */
736 BANNER
737 -----
738

```

CSS and jQuery code triggered on resizing of browser window.

JS code:

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
PROJECTS
style.css
scripts.js
scripts.js
E-project-2020>js>scripts.js responsive>700>Items
Side bar menu Toggle on/off function
-----
//Javascript to toggle sidebar menu
$( "#sidebar" ).mCustomScrollbar({
    theme: "minimal"
});

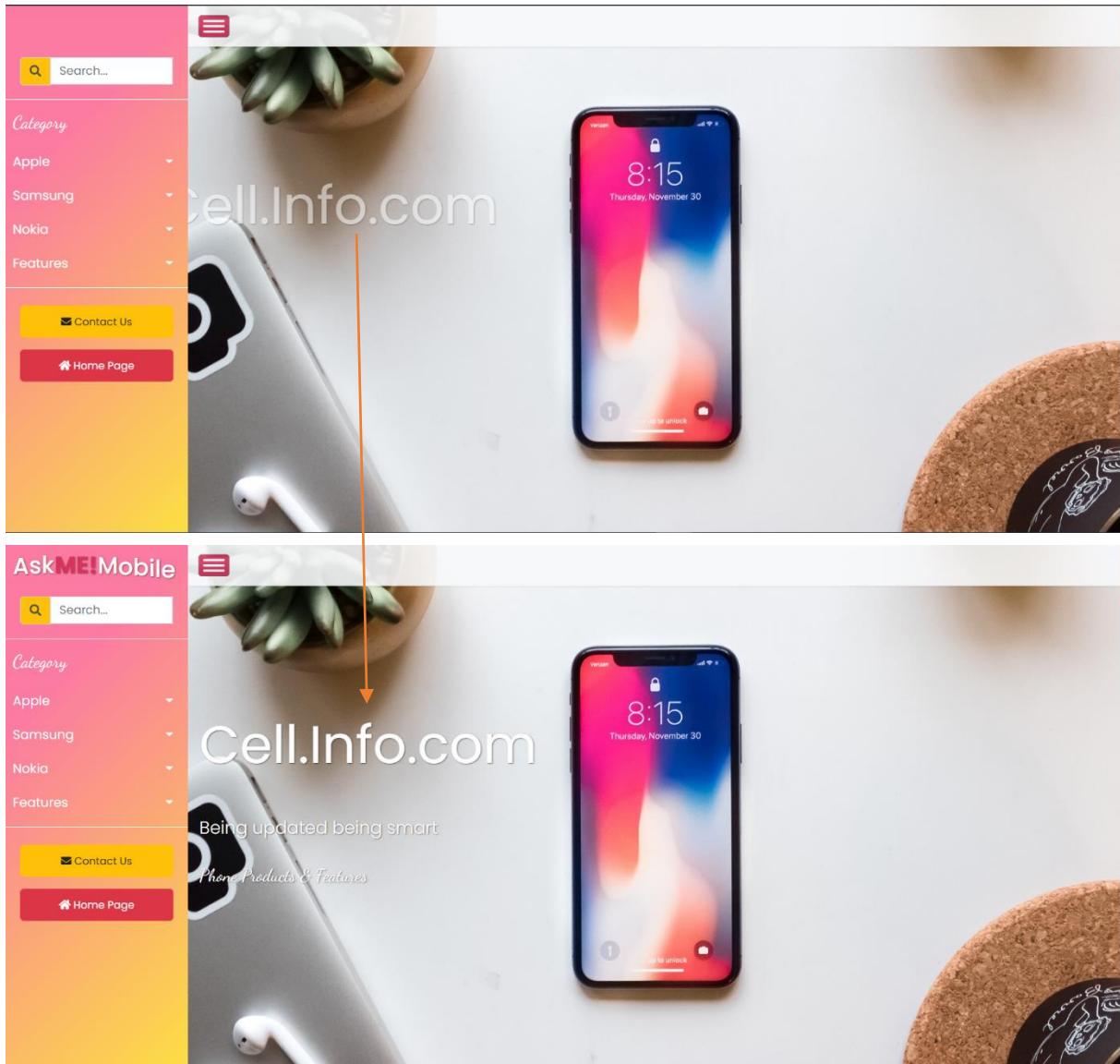
$( "#sidebarCollapse" ).on('click', function () {
    $( "#sidebar, #content" ).toggleClass('active');
    $( ".collapse.in" ).toggleClass('in');
    $ ( 'a[aria-expanded=true]' ).attr('aria-expanded', 'false');
});

//Close side bar button @ certain window width
$(window).resize(function (event) {
    if (window.matchMedia('(max-width: 992px)').matches) {
        $( "#sidebarCollapse" ).prop('disabled', true);
        $( "#sidebarCollapse" ).addClass('d-none');
        $( "#sidebar, #content" ).removeClass('active');
    }
    if (window.matchMedia('(min-width: 993px)').matches) {
        $( "#sidebarCollapse" ).prop('disabled', false);
        $( "#sidebarCollapse" ).removeClass('d-none');
    }
}).resize();
/*
-----
Table filter for tabular information in modal 1 to modal 4
-----
// Searching function for modal

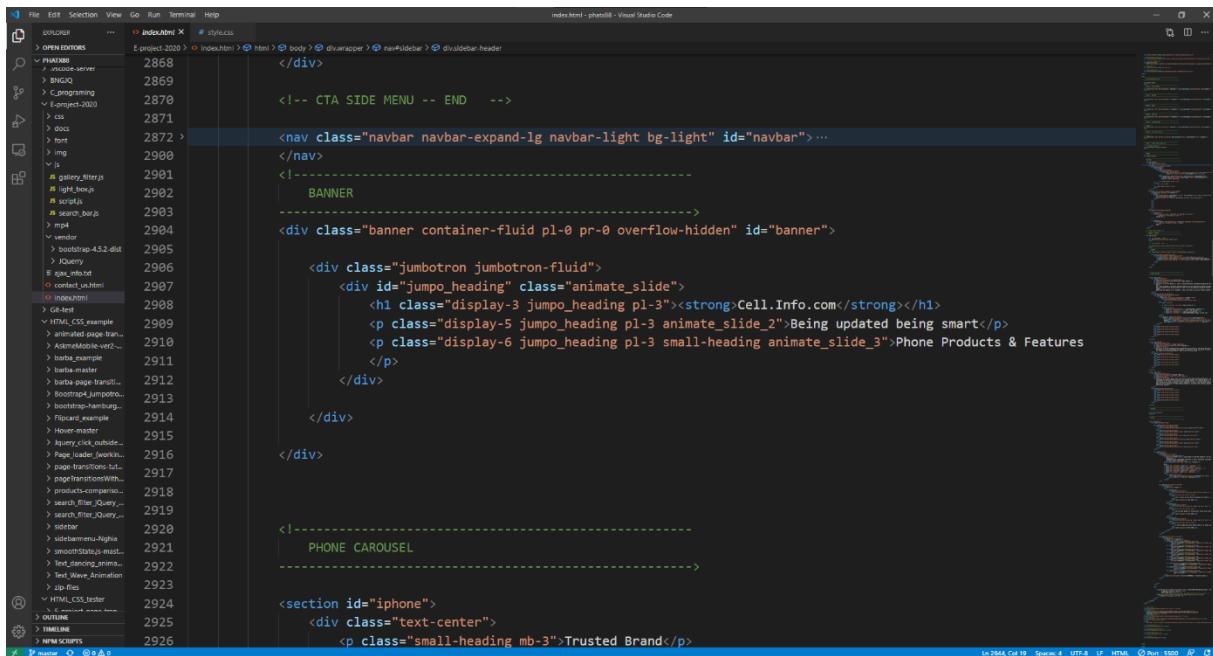
```

8.4 Home Page - Hero Banner –

8.4.1 Header Text Animation



HTML code:

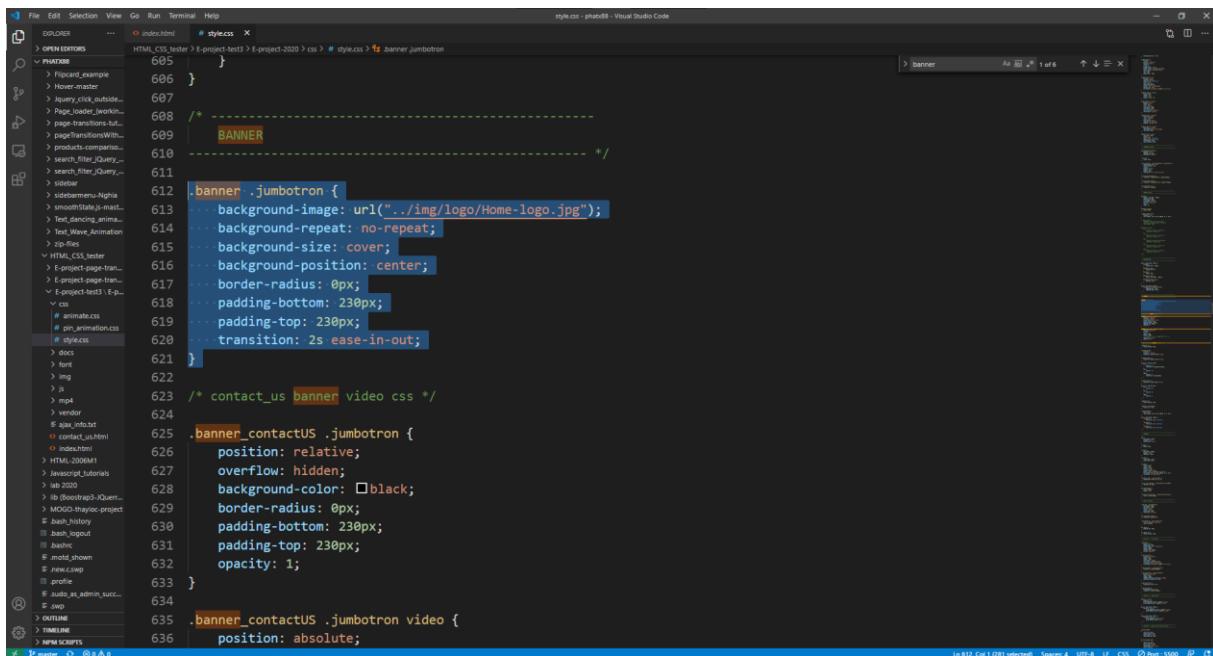


A screenshot of the Visual Studio Code interface showing the HTML code for `index.html`. The code includes a navigation bar, a banner section with headings and sub-headings, and a phone carousel section. The code is annotated with line numbers from 2868 to 2926.

```
<!-- CTA SIDE MENU -- END -->
<nav class="navbar navbar-expand-lg navbar-light bg-light" id="navbar">...
</nav>
<!-- BANNER
----->
<div class="banner container-fluid pl-0 pr-0 overflow-hidden" id="banner">
  <div class="jumbotron jumbotron-fluid">
    <div id="jumbo_heading" class="animate_slide">
      <h1 class="display-3 jumbo_heading pl-3"><strong>Cell.Info.com</strong></h1>
      <p class="display-5 jumbo_heading pl-3 animate_slide_2">Being updated being smart</p>
      <p class="display-6 jumbo_heading pl-3 small-heading animate_slide_3">Phone Products & Features
    </div>
  </div>
</div>
<!-- PHONE CAROUSEL
----->
<section id="iphone">
  <div class="text-center">
    <p class="small-heading mb-3">Trusted Brand</p>

```

CSS code:



A screenshot of the Visual Studio Code interface showing the CSS code for `style.css`. The code defines styles for a banner section, specifically targeting the `.banner .jumbotron` and `.banner_contactUS .jumbotron` classes. The code is annotated with line numbers from 605 to 636.

```
.banner .jumbotron {
  background-image: url("../img/logo/Home-logo.jpg");
  background-repeat: no-repeat;
  background-size: cover;
  background-position: center;
  border-radius: 0px;
  padding-bottom: 230px;
  padding-top: 230px;
  transition: 2s ease-in-out;
}
/* contact_us banner video css */
.banner_contactUS .jumbotron {
  position: relative;
  overflow: hidden;
  background-color: black;
  border-radius: 0px;
  padding-bottom: 230px;
  padding-top: 230px;
  opacity: 1;
}
.banner_contactUS .jumbotron video {
  position: absolute;
```

```
641 .jumbotron h1 {  
642   margin-bottom: 50px;  
643 }  
644 .animate_slide {  
645   z-index: 2;  
646   position: relative;  
647   sidebar:  
648     smoothness:ease-in-out;  
649     Text_dancing_animation;  
650     Text_Wave_animation;  
651     z-index: 1;  
652     sidebar:  
653     smoothness:ease-in-out;  
654     Text_dancing_animation;  
655     Text_Wave_animation;  
656     z-index: 1;  
657 }  
658 .animate_slide_2 {  
659   animation: mytext_slide 2s ease;  
660 }  
661 @keyframes mytext_slide {  
662   0% {  
663     opacity: 0;  
664     transform: translateX(-250px);  
665   }  
666   25% {  
667     opacity: 0;  
668   }  
669   100% {  
670     opacity: 1;  
671     transform: translateX(0);  
672   }  
673 }  
674 .animate_slide_3 {  
675   animation: mytext_fade 6s ease;  
676 }  
677 }  
678 }  
679 }
```

CSS animation to handle sliding in animation

```
681 .jumbotron {  
682   opacity: 0;  
683 }  
684 .animate_slide {  
685   opacity: 0;  
686 }  
687 .animate_slide_2 {  
688   opacity: 1;  
689 }  
690 }  
691 .jumbotron p {  
692   margin-bottom: 25px;  
693 }  
694 }  
695 .jumbotron .display-5 {  
696   font-size: 1.5em;  
697 }  
698 }  
699 .jumbo_heading {  
700   color: #fff;  
701   text-shadow: 1px 1px 2px rgba(0, 0, 0, 0.5);  
702 }  
703 @media (max-width: 768px) {  
704   .display-3 {  
705     font-size: 10vw !important;  
706   }  
707   .display-5 {  
708     font-size: 5vw !important;  
709   }  
710   .display-6 {  
711     font-size: 3.5vw !important;  
712   }  
713 }
```

Media queries for responsiveness

8.4.2 Changing Background Image Animation

The image displays three vertically stacked screenshots of a mobile application interface, likely a smartphone catalog or news site. Each screenshot shows a different background image for the main screen, demonstrating a background image animation feature.

Screenshot 1: The background image features a white iPhone X displaying its lock screen with the time 8:15 and date Thursday, November 30. The phone is positioned on a light-colored surface next to a small potted plant and a cork board. The header "Cell.Info.com" and the tagline "Being updated being smart" are visible above the phone. The sidebar on the left lists categories: Apple, Samsung, Nokia, and Features, with Apple currently selected. The footer contains "Contact Us" and "Home Page" buttons.

Screenshot 2: The background image shows a Samsung Galaxy S10e, Galaxy S10, and Galaxy S10+ smartphone displayed on a light-colored surface. A Samsung smartwatch is also visible. The header "Cell.Info.com" and the tagline "Phone Products & Features" are present. The sidebar shows the same category list as the first screenshot, with Samsung selected. The footer includes "Contact Us" and "Home Page" buttons, and a URL "127.0.0.1:5500/E-project-2020/index.html#samsungSubmenu" is visible at the bottom.

Screenshot 3: The background image features two Samsung Galaxy S10 phones, one in gold and one in black, shown from a slightly elevated angle. The header "Cell.Info.com" and the tagline "Turn On Tommorow" are visible. The sidebar shows the same category list as the previous screenshots, with Samsung selected. The footer contains "Contact Us" and "Home Page" buttons.

JS code:

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... E-project.2020 > js > scriptjs > loadDoc
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134
$("#change_iphone_bg").click(function () {
    var imageUrl =
        "img/logo/Apple.jpg";
    $("div#jumbo_heading").children("h1").html("Apple iPhone");
    $("div#jumbo_heading").find("p:first-of-type").html("think different.");
    $(".jumbotron").css("background-image", "url(" + imageUrl + ")");
    $(".jumbo_heading").css("color", "#a0a0a0");
    var el = $('#jumbo_heading'),
        newone = el.clone(true);

    el.before(newone);

    $('.' + el.attr('class') + ":last").remove();
});

$("#change_samsung_bg").click(function () {
    var imageUrl =
        "img/logo/samsung-logo.jpg";
    $("div#jumbo_heading").children("h1").html("Samsung");
    $("div#jumbo_heading").find("p:first-of-type").html("Turn On Tommorow");
    $(".jumbotron").children("h1").empty();
    $(".jumbotron").css("background-image", "url(" + imageUrl + ")");
    $(".jumbo_heading").css("color", "#054b93");
    var el = $('#jumbo_heading'),
        newone = el.clone(true);

    el.before(newone);

    $('.' + el.attr('class') + ":last").remove();
});

```

JS code to change image url, and text display

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... E-project.2020 > js > scriptjs > loadDoc
103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134
$("#change_nokia_bg").click(function () {
    var imageUrl =
        "img/logo/nokia-logo.jpg";
    $("div#jumbo_heading").children("h1").html("Nokia");
    $("div#jumbo_heading").find("p:first-of-type").html("Connecting People");
    $(".jumbotron").css("background-image", "url(" + imageUrl + ")");
    $(".jumbo_heading").css("color", "#dc7147");
    var el = $('#jumbo_heading'),
        newone = el.clone(true);

    el.before(newone);

    $('.' + el.attr('class') + ":last").remove();
});

$("#change_home_bg").click(function () {
    var imageUrl =
        "img/logo/Home-logo.jpg";
    $("div#jumbo_heading").children("h1").html("Cell.Info.com");
    $("div#jumbo_heading").find("p:first-of-type").html("Being updated being smart");
    $(".jumbotron").css("background-image", "url(" + imageUrl + ")");
    $(".jumbo_heading").css("color", "#ffff");
    var el = $('#jumbo_heading'),
        newone = el.clone(true);

    el.before(newone);

    $('.' + el.attr('class') + ":last").remove();
});

$("#change_features_bg").click(function () {
    var imageUrl =
        "img/logo/features-banner.jpg";

```

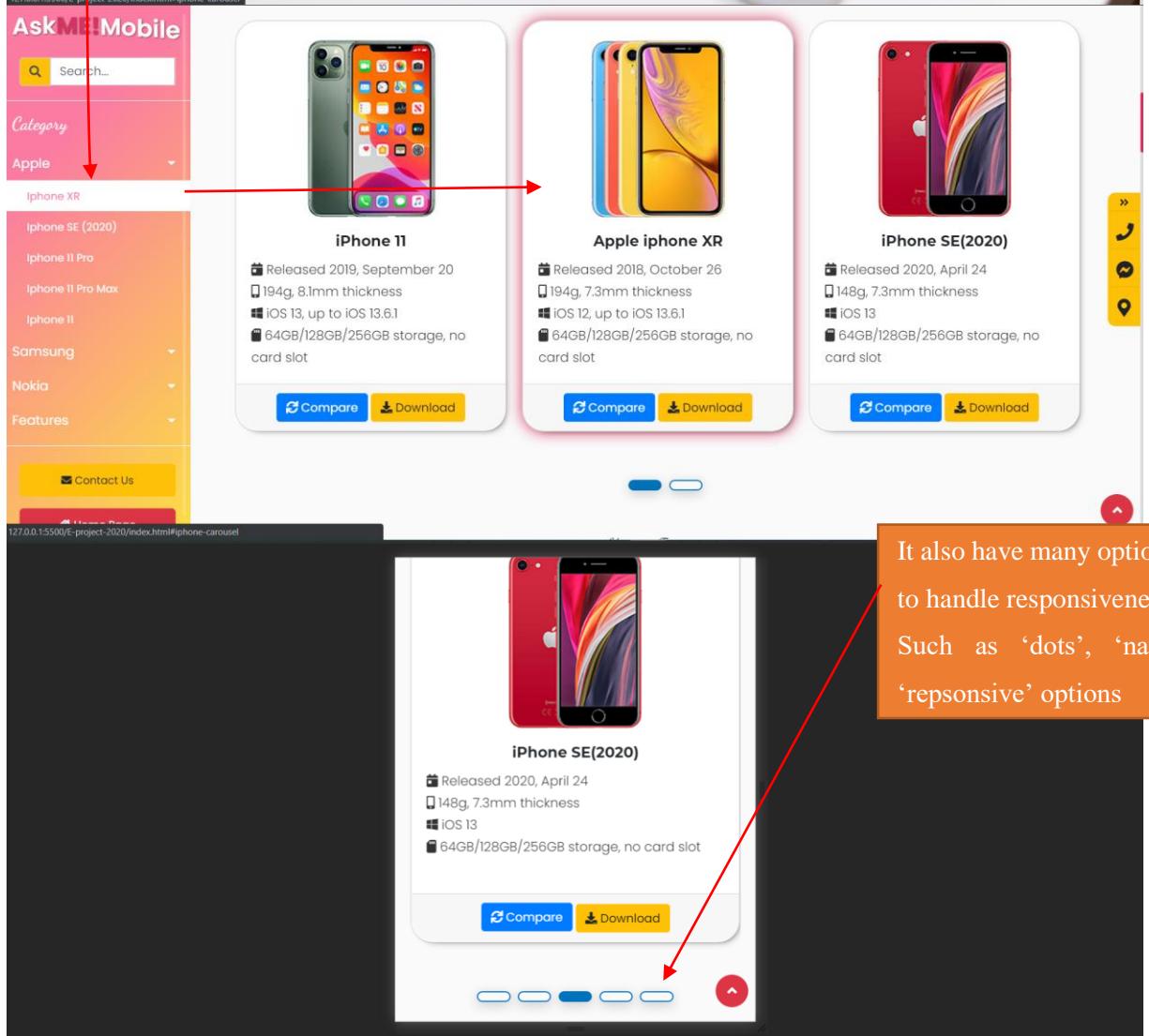
8.5 Home Page - Main Section

8.5.1 Main Section – Owl Carousel

Carousel will move left/right by dragging mouse button. We use owl carousel plugin for our project

The flagships are the Galaxy S and the Galaxy Note series. The Galaxy Z series are foldable smartphones. The Galaxy A series and Galaxy M series are mid-range and low-end/budget models. Other lines are discontinued.

There are 3 items of total of 5 items, the owl carousel will remove last item at the end of the loop and append it at the beginning. This will create an endless loop pictures slide show.



HTML code:

The screenshot shows the Visual Studio Code interface with the file 'index.html' open. The code is a multi-sectioned HTML document. It includes sections for 'banner', 'samsung', and 'apple'. Each section contains a 'carousel owl-carousel' component with five cards. The code uses classes like 'card card-1', 'card card-2', etc., and includes descriptive text and styling for each card.

```
</p>
</div>
<div class="carousel owl-carousel">
  <div class="card card-1 hvr-bob d-block">...</div>
  <div class="card card-2 hvr-bob d-block">...</div>
  <div class="card card-3 hvr-bob d-block">...</div>
  <div class="card card-4 hvr-bob d-block">...</div>
  <div class="card card-5 hvr-bob d-block">...</div>
</div>
</section>

<section id="samsung">
  <div class="text-center mt-3">
    <p class="small-heading mb-3">Korean Favourites</p>
    <h1 class="title mb-3 hvr-wobble-horizontal">Samsung</h1>
    <hr class="h-line mb-4">
    <p class="desc mb-5">The flagship Galaxy smartphones are the Galaxy S and the Galaxy Note series. The Galaxy Z series are foldable smartphones. The Galaxy A series and Galaxy M series are mid-range and low-end/budget models. Other lines are discontinued. </p>
  </div>
  <div class="carousel owl-carousel">
    <div class="card card-1 hvr-bob d-block">...</div>
    <div class="card card-2 hvr-bob d-block">...</div>
    <div class="card card-3 hvr-bob d-block">...</div>
    <div class="card card-4 hvr-bob d-block">...</div>
    <div class="card card-5 hvr-bob d-block">...</div>
  </div>
</section>
```

CSS code:

The screenshot shows the Visual Studio Code interface with the file 'style.css' open. The code defines styles for various elements, including a 'Phone Carousel' section. It uses CSS classes like '.card-img', '.card-img-top', and '.card'. The code includes media queries and specific styles for mobile devices.

```
/* -----
 Phone Carousel
 ----- */
.iphone {
  padding-top: 50px;
}
.iphone h2 {
  margin-bottom: 50px;
}

.card-img, .card-img-top {
  max-width: 180px;
  max-height: 100%;
  margin: auto;
  cursor: pointer;
  margin-top: 20px;
  transition: 1s ease;
}

img.card-img-top:hover {
  transform: scale(1.15);
}

.card:hover h5, .card a:hover h5 {
  text-decoration: underline;
  color: #d8345f;
}
```

JS code:

```
// Own carousel custom script
$( ".carousel" ).owlCarousel({
    margin: 20,
    loop: true,
    autoplay: true,
    autoplayTimeout: 5000,
    autoplayHoverPause: true,
    responsive: {
        0: {
            items: 1,
            nav: false
        },
        600: {
            items: 2,
            nav: false
        },
        1000: {
            items: 3,
            nav: false
        }
    }
});

// Changing background image on jumptron
```

Owl Carousel to set
custom sliding time

```
// Custom code to Match dropdown menu with carousel item --start
var carousel = $("#iphone-carousel");
$("#iphoneSubmenu li:nth-child(1) a").click(function (e) {
    e.preventDefault();
    carousel.trigger("to.owl.carousel", [0, 500, true]);
    //adding glowing animation to selected card and remove others
    $('a').not(this).removeClass('active');
    $(this).addClass('active');
    $('div').not('#iphone-carousel > div.card-1').removeClass('glow');
    $('#iphone-carousel div.card-1').addClass('glow');
});
$("#iphoneSubmenu li:nth-child(2) a").click(function (e) {
    e.preventDefault();
    carousel.trigger("to.owl.carousel", [1, 500, true]);
    $('a').not(this).removeClass('active');
    $(this).addClass('active');
    $('div').not('#iphone-carousel > div.card-2').removeClass('glow');
    $('#iphone-carousel div.card-2').addClass('glow');
});
$("#iphoneSubmenu li:nth-child(3) a").click(function (e) {
    e.preventDefault();
    carousel.trigger("to.owl.carousel", [2, 500, true]);
    $('a').not(this).removeClass('active');
    $(this).addClass('active');
    $('div').not('#iphone-carousel > div.card-3').removeClass('glow');
    $('#iphone-carousel div.card-3').addClass('glow');
});
$("#iphoneSubmenu li:nth-child(4) a").click(function (e) {
    e.preventDefault();
    carousel.trigger("to.owl.carousel", [3, 500, true]);
});
```

We use “to.owl.carousel” to move slide to certain position, it creates an effect of linking item from viewing window.

8.5.2 Main Section – Gallery with filter buttons–

Clicking filter will show only desired products

Ask ME! Mobile

Category

- Apple
- Samsung
 - Samsung Galaxy A21s
 - Samsung Galaxy A31
 - Samsung Galaxy M31
 - Samsung Galaxy M31s
 - Samsung Galaxy S20
- Nokia
- Features

Search...

All Best Sellers New Arrivals Blowout Sale

Motorola Razr 5G
Exp.2020, September 09
190g, 8mm thickness
Android 10
128GB storage, no card slot

Samsung Galaxy Z Fold 5G
Exp. release 2020, September 18
282g, 6.9mm thickness
Android 10, One UI 2.5
256GB/512GB storage, no card slot

Samsung Galaxy Z flip 5G
Released 2020, August 07
183g, 7.2mm thickness
Android 10, One UI 2
256GB storage, no card slot

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Motorola Razr 5G
Exp.2020, September 09
190g, 8mm thickness
Android 10
128GB storage, no card slot

Samsung Galaxy Z Fold 5G
Exp. release 2020, September 18
282g, 6.9mm thickness
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256GB/512GB storage, no card slot

Samsung Galaxy Z flip 5G
Released 2020, August 07
183g, 7.2mm thickness
Android 10, One UI 2
256GB storage, no card slot

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Ask ME! Mobile

Category

- Apple
- Samsung
 - Samsung Galaxy A21s
 - Samsung Galaxy A31
 - Samsung Galaxy M31
 - Samsung Galaxy M31s
 - Samsung Galaxy S20
- Nokia
- Features

Search...

All Best Sellers New Arrivals Blowout Sale

Nokia 9 PureView
Released 2019, March 15
172g, 8mm thickness
Android 9.0, Android 10.0
128GB storage, no card slot

Nokia 8.3 5G
Released 2019, December 19
183g, 8.7mm thickness
Android 9.0, Android 10
32GB storage, microSDXC

Samsung Galaxy S20 5G
Released 2019, December 19
183g, 8.7mm thickness
Android 9.0, Android 10
32GB storage, microSDXC

Download **Compare** **Download** **Compare** **Download**

Nokia 9 PureView
Released 2019, March 15
172g, 8mm thickness
Android 9.0, Android 10.0
128GB storage, no card slot

Nokia 8.3 5G
Released 2019, December 19
183g, 8.7mm thickness
Android 9.0, Android 10
32GB storage, microSDXC

Samsung Galaxy S20 5G
Released 2019, December 19
183g, 8.7mm thickness
Android 9.0, Android 10
32GB storage, microSDXC

Contact Us **Home Page**

https://www.nokia.com/phones/en_int/nokia-8-3-5g

HTML code:

The screenshot shows the Visual Studio Code interface with the file 'index.html' open. The code displays a navigation bar with a dropdown menu for filters. The menu items include 'All', 'Best Sellers', 'New Arrivals', and 'Sale'. Below the menu, there are sections for 'New Arrivals' and 'Best Seller' products, each containing three cards. The code uses CSS classes like 'filter_menu' and 'grid' to structure the layout.

```
<div class="mb-1 id="filter_menu">
  <button class="btn btn-primary filter-button active" data-filter="all">All</button>
  <button class="btn btn-primary filter-button" data-filter="best">Best Sellers</button>
  <button class="btn btn-primary filter-button" data-filter="new">New Arrivals</button>
  <button class="btn btn-primary filter-button" data-filter="sale">Blowout Sale</button>
</div>
<div class="row grid">
  <div class="card card-1 filter new hvr-float" id="new_arrivals">...
  </div>
  <div class="card card-1 filter new hvr-float" id="new_arrivals">...
  </div>
  <div class="card card-1 filter new hvr-float" id="new_arrivals">...
  </div>
  <div class="card card-1 filter best hvr-float" id="best_seller">...
  </div>
  <div class="card card-1 filter best hvr-float" id="best_seller">...
  </div>
  <div class="card card-1 filter best hvr-float" id="best_seller">...
  </div>
  <div class="card card-1 filter sale hvr-float" id="sale">...
  </div>
  <div class="card card-1 filter sale hvr-float" id="sale">...
  </div>
  <div class="card card-1 filter sale hvr-float" id="sale">...
  </div>
</div>
```

Use CSS grid to organize individual phone items.

CSS code:

The screenshot shows the Visual Studio Code interface with the file 'style.css' open. A red circle highlights the CSS rule for the '#features .grid' selector, which defines a grid layout with 3 columns and 3 rows. Below this, media queries adjust the grid for smaller screens, changing it to 2 columns and 2 rows. The code also includes a section for a 'Gallery with filter styles'.

```
#features .grid {
  display: grid;
  grid-template-columns: repeat(3, auto);
  grid-template-rows: repeat(3, auto);
}

@media (max-width: 970px) {
  #features .grid {
    grid-template-columns: repeat(2, auto);
    grid-template-rows: repeat(2, auto);
  }
}

@media (max-width: 768px) {
  #features .grid {
    grid-template-columns: auto;
    grid-template-rows: auto;
  }
}

/* ----- */
.filter-button
```

JS code:

```
$(document).ready(function () {  
    $(".filter-button").click(function () {  
        var value = $(this).attr('data-filter');
```

Algorithm to insert attr['data-filter'] when clicking to certain button. Using JQuery selector ('.filter') to decide to show if attr['data-filter'] is a match and to hide if attr not match.

8.5.3 Main Section - Compare & Download Modals –

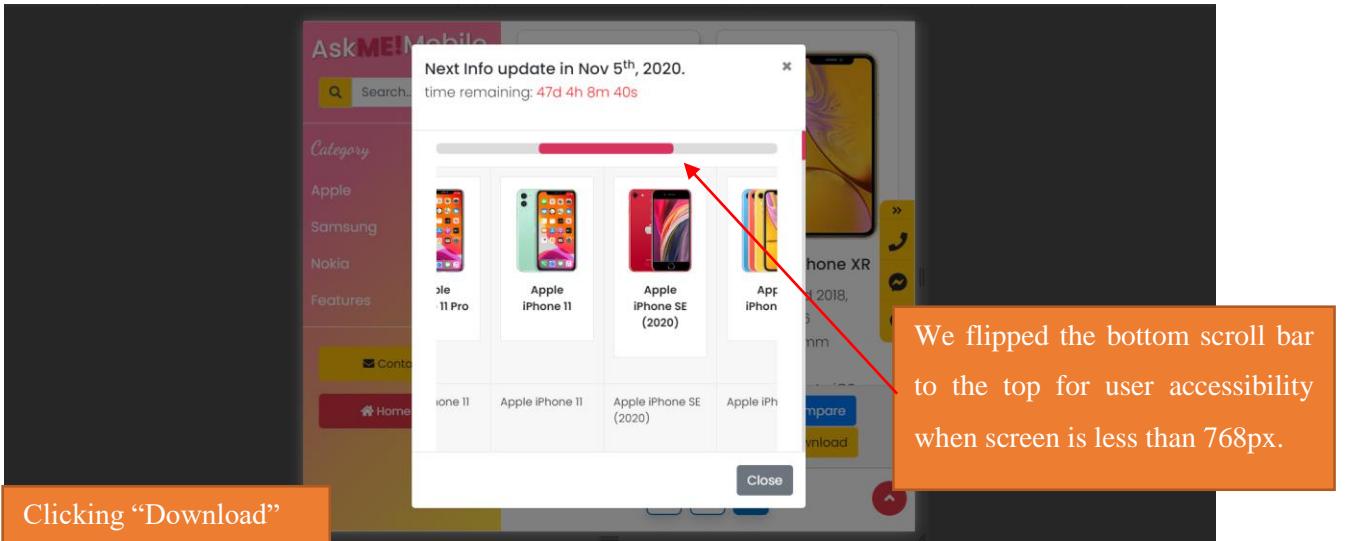
Next Info update in Nov 5th, 2020.
time remaining: 47d 4h 14m 4s

A countdown timer reminder set to expired in 1 month

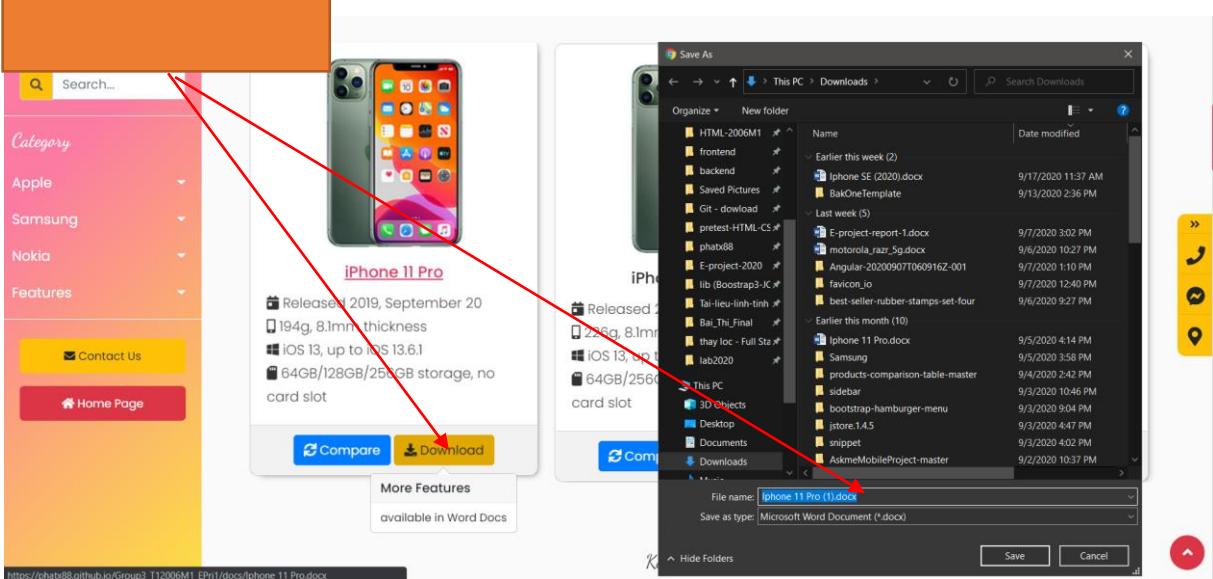
Choose criteria to filter table below.

Category	Apple	Samsung	Nokia	Features			
NETWORK	Apple iPhone 11 Pro Max	Apple iPhone 11 Pro	Apple iPhone 11	Apple iPhone SE (2020)	Apple iPhone XR	Samsung Galaxy Note20 Ultra 5G	Nokia 8.3 5G
Technology	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / EVDO / LTE / 5G	GSM / HSPA / LTE / 5G

Clicking compare will open a modal. A tabular info table is inserted within the modal



Clicking “Download”



HTML code:

```

<!-- MODAL1 - APPLE IPHONE -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-dialog-scrollable modal-xl" id="myModal">
    <div class="modal-content">
      <div class="modal-header">
        <div class="d-flex flex-column">
          <h5 class="modal-title" id="exampleModalLabel">Next Info update in Nov 5<sup>th</sup>, 2020.</h5>
          <p>time remaining: <span style="color: #red;" class="timer"></span></p>
        </div>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <!-- Product Comparison Table -->
        <div class="container pb-5 mb-2">...
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>

```

The modal html is copied from Bootstrap 4 documentation. Our project used the standard scrollable modal template.

Select option to choose and categorize tabular info

```

<!-- Product Comparison Table -->
<div class="container pb-5 mb-2">
  <div class="comparison-table">
    <table class="table table-bordered">
      <thead class="bg-secondary">
        <tr>
          <td class="align-middle">
            <select class="form-control custom-select" id="compare-criteria" data-filter="trigger">
              <option value="all">Show All</option>
              <option value="network">Network</option>
              <option value="body">Body</option>
              <option value="display">Display</option>
              <option value="platform">Platform</option>
              <option value="memory">Memory</option>
              <option value="main_camera">Main Camera</option>
              <option value="features">Features</option>
              <option value="battery">Battery</option>
              <option value="misc">Misc</option>
            </select><small class="form-text text-muted">* Choose criteria to filter table below.</small>
          </td>
        </tr>
      </thead>
      <tbody id="network" data-filter="target">
        <tr class="bg-secondary">
          <th class="text-uppercase">Network</th>
          <td><span class="text-dark font-weight-semibold">Apple iPhone 11 Pro Max</span></td>
        </tr>
        <td><span class="text-dark font-weight-semibold">Apple iPhone 11 Pro</span></td>
        <td><span class="text-dark font-weight-semibold">Apple iPhone 11</span></td>
        <td><span class="text-dark font-weight-semibold">Apple iPhone SE (2020)</span></td>
        <td><span class="text-dark font-weight-semibold">Apple iPhone XR</span></td>
        <td><span class="text-dark font-weight-semibold">Samsung Galaxy Note20 Ultra 5G</span></td>
        <td><span class="text-dark font-weight-semibold">Nokia 8.3 5G</span></td>
      </tbody>
      <tbody id="body" data-filter="target">
        <tr class="bg-secondary">
          <th class="text-uppercase">Body</th>
          <td><span class="text-dark font-weight-semibold">Apple iPhone 11 Pro Max</span></td>
        </tr>
      </tbody>
    </table>
  </div>
</div>

```

We fill table with information, table layout is standard thead, tbody, and tfooter

```

</thead>
<tbody id="network" data-filter="target"> ...
</tbody>
<tbody id="body" data-filter="target"> ...
</tbody>
<tbody id="display" data-filter="target"> ...
</tbody>
<tbody id="platform" data-filter="target"> ...
</tbody>
<tbody id="memory" data-filter="target"> ...
</tbody>
<tbody id="main_camera" data-filter="target"> ...
</tbody>
<tbody id="features" data-filter="target"> ...
</tbody>
<tbody id="battery" data-filter="target"> ...
</tbody>
<tbody id="misc" data-filter="target"> ...
</tbody>

```

CSS code:

```

1036 /* @media (max-width: 768px) #sidebar {
1037   MODAL
1038   /* */
1039   .modal-body {
1040     overflow-x: auto;
1041   }
1042 }
1043 .comparison-table {
1044   width: 100%;
1045   font-size: .875rem;
1046   overflow-x: auto;
1047   -webkit-overflow-scrolling: touch;
1048   -ms-overflow-style: -ms-autohiding-scrollbar
1049 }
1050 .comparison-table table {
1051   min-width: 41rem;
1052   /* table-layout: auto; */
1053   /* table-layout: fixed; */
1054 }
1055 /* Fixed responsiveness for modal table */
1056 @media only screen and (max-width: 1200px) {
1057   .comparison-table table {
1058     table-layout: auto;
1059     -webkit-overflow-scrolling: auto;
1060   }
1061   .comparison-table {
1062     overflow-x: auto;
1063     transform: rotateX(180deg);
1064   }
1065 }
1066 
```

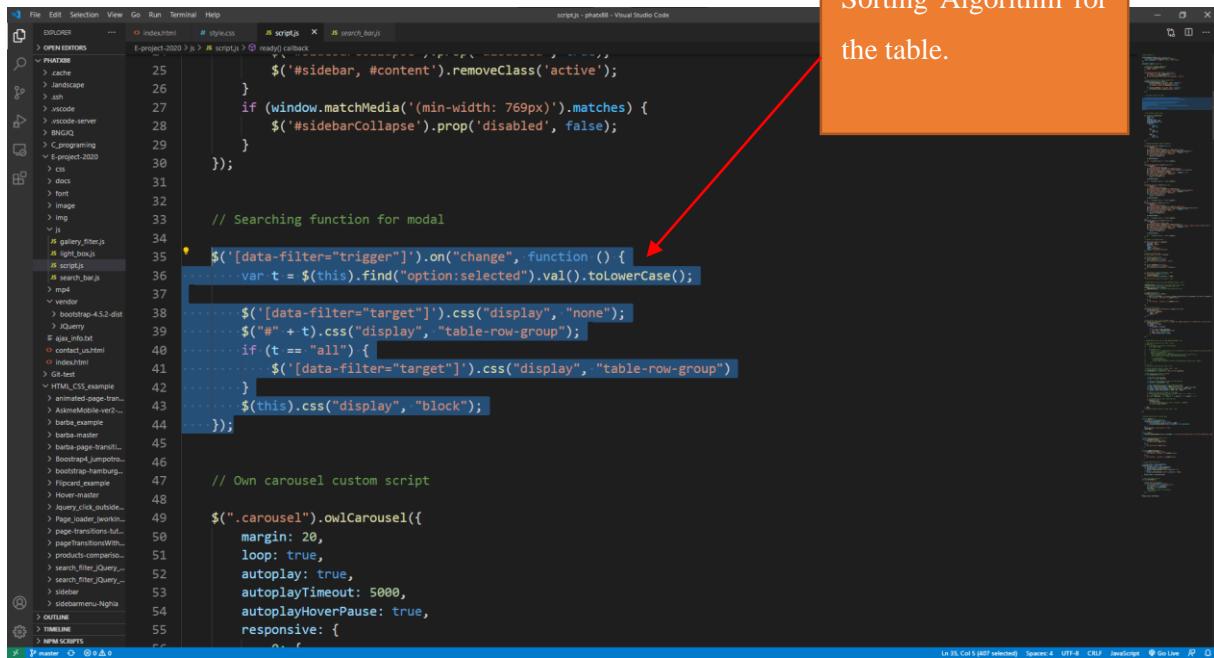
We designed the table to be able to handle small mobile screen. Users is able to scroll horizontally when overflowed. This design decision is to enhance user accessibility without causing frustration when reading on small screen.

Then we flipped the scroll bar from bottom to top.

```
File Edit Selection View Go Run Terminal Help
OPEN EDITORS
E-project-2020 > css > # style.css < style.css - phab88 - Visual Studio Code
1051 .comparison-table table {
1052     min-width: 41rem;
1053     /* table-layout: auto; */
1054     table-layout: fixed;
1055 }
1056 }
1057 /* Fixed responsiveness for modal table */
1058 @media only screen and (max-width: 1200px) {
1059     .comparison-table table {
1060         table-layout: auto;
1061         -webkit-overflow-scrolling: auto;
1062     }
1063     .comparison-table {
1064         overflow-x: auto;
1065         transform: rotateX(180deg);
1066     }
1067     .comparison-table>table {
1068         transform: rotateX(180deg);
1069     }
1070 }
1071 }
1072 }
1073 .comparison-table table tbody+tbody {
1074     border-top-width: 1px
1075 }
1076 }
1077
1078 .comparison-table .table-bordered thead td {
1079     border-bottom-width: 1px
1080 }
```

```
File Edit Selection View Go Run Terminal Help
OPEN EDITORS
E-project-2020 > css > # style.css < style.css - phab88 - Visual Studio Code
1122 .comparison-item .remove-item .feather {
1123     position: absolute;
1124     top: -.3125rem;
1125     right: -.3125rem;
1126     width: 1.375rem;
1127     height: 1.375rem;
1128     border-radius: 50%;
1129     background-color: #f44336;
1130     color: #fff;
1131     text-align: center;
1132     cursor: pointer;
1133 }
1134 .comparison-table .comparison-item .remove-item .feather {
1135     width: .875rem;
1136     height: .875rem;
1137 }
1138 .table-bordered th, .table-bordered td {
1139     border: 1px solid #e7e7e7;
1140 }
1141 }
1142 .bg-secondary {
1143     background-color: #f7f7f7 !important;
1144 }
1145 }
1146
1147 div#CTA_clickToCall .divider-div .divider-bar {
1148     width: 130px;
1149     height: 4px !important;
1150     border-top: 1px solid #e9ebf1 !important;
1151     display: inline-block !important;
1152 }
```

JS code:



```
    $('#sidebar, #content').removeClass('active');
}
if (window.matchMedia('(min-width: 769px)').matches) {
    $('#sidebarCollapse').prop('disabled', false);
}

// Searching function for modal
$('[data-filter="trigger"]').on("change", function () {
    var t = $(this).find("option:selected").val().toLowerCase();

    $('[data-filter="target"]').css("display", "none");
    $("#" + t).css("display", "table-row-group");
    if (t == "all") {
        $('[data-filter="target"]').css("display", "table-row-group");
    }
    $(this).css("display", "block");
});

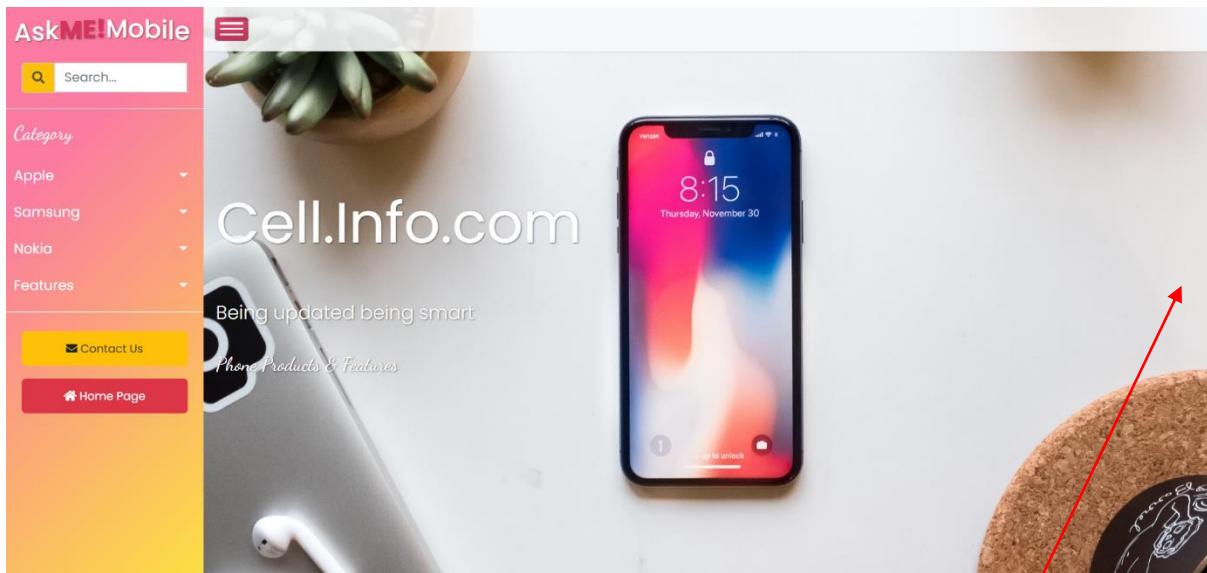
// Own carousel custom script

$(".carousel").owlCarousel({
    margin: 20,
    loop: true,
    autoplay: true,
    autoplayTimeout: 5000,
    autoplayHoverPause: true,
    responsive: {
        0: {
            items: 1
        },
        600: {
            items: 2
        },
        1000: {
            items: 3
        }
    }
});
```

Sorting Algorithm for
the table.

8.5.4 Main section – Add To Cart & Check Out

8.6 Side Panel Call To Action Modals



A screenshot of the AskME! Mobile website. The hero banner features two iPhone 11 models. Below the banner, there is a CTA panel with the text: "CTA panel to only appear when scrolling down below the Hero Banner but on top of footer." To the right of the CTA panel, there are three cards for the Apple iPhone XR, Apple iPhone SE (2020), and iPhone 11. A red arrow points from the top right towards the CTA panel.

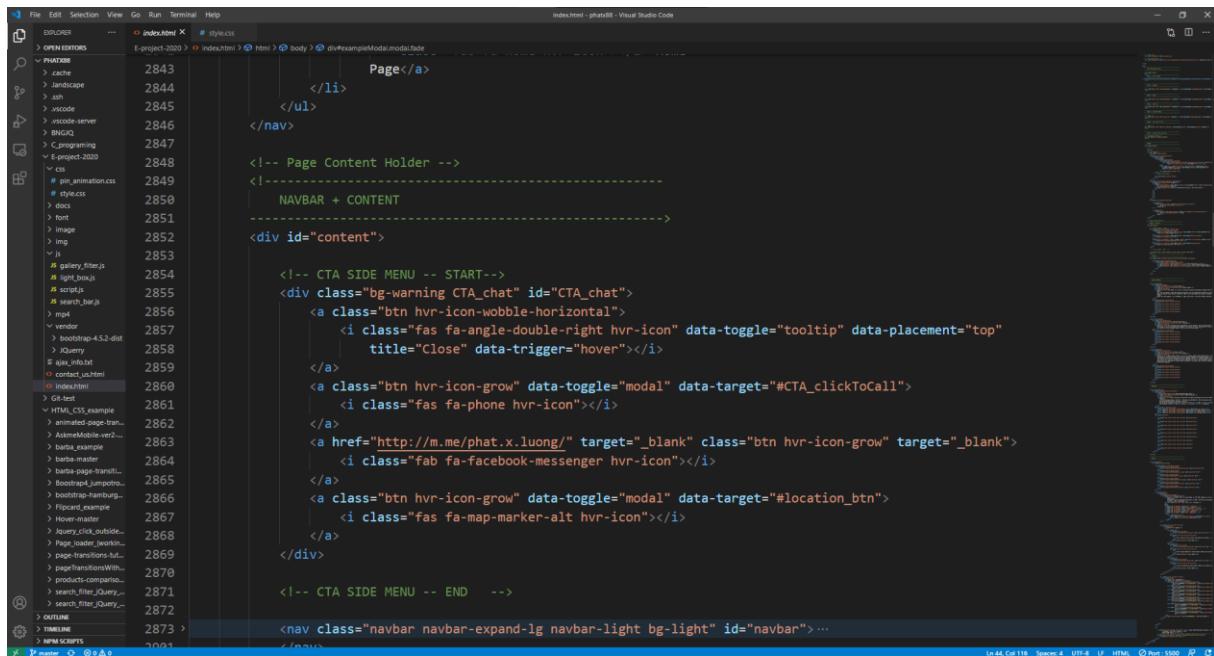
A screenshot of the AskME! Mobile website. The hero banner features the logos for iPhone, SAMSUNG, NOKIA, BlackBerry, coolpad, and VSMART. Below the banner, there is a CTA panel with the text: "CTA panel to only appear when scrolling down below the Hero Banner but on top of footer." To the right of the CTA panel, there are sections for "Cell.info.com", "Blogs", and "Instagram". A red arrow points from the top right towards the CTA panel.

The screenshot shows a mobile phone listing page for the AskME Mobile website. A central modal window titled "Contact Form" is displayed. The modal contains instructions: "Please leave us your numbers and one of our agents will contact you within the first 5 minutes." Below this is a text input field labeled "Your phone numbers..." and a yellow "Contact Request" button. At the bottom of the modal are "Close" and "Submit" buttons. To the right of the modal, there are three smartphone cards: Nokia 9 PureView, Nokia 8.3 5G, and Samsung Galaxy S20 5G. Each card has a "Compare" and "Download" button. On the far right of the Samsung card, there is a vertical sidebar with icons for messaging, calling, and location.

Clicking the side button will open modals. The top button will remove the CTA panel.

This screenshot shows the same mobile phone listing page as the previous one, but the "Contact Form" modal is no longer visible. The three smartphone cards (Nokia 9 PureView, Nokia 8.3 5G, and Samsung Galaxy S20 5G) are now fully visible. The vertical sidebar with messaging, calling, and location icons is still present on the right side of the Samsung card.

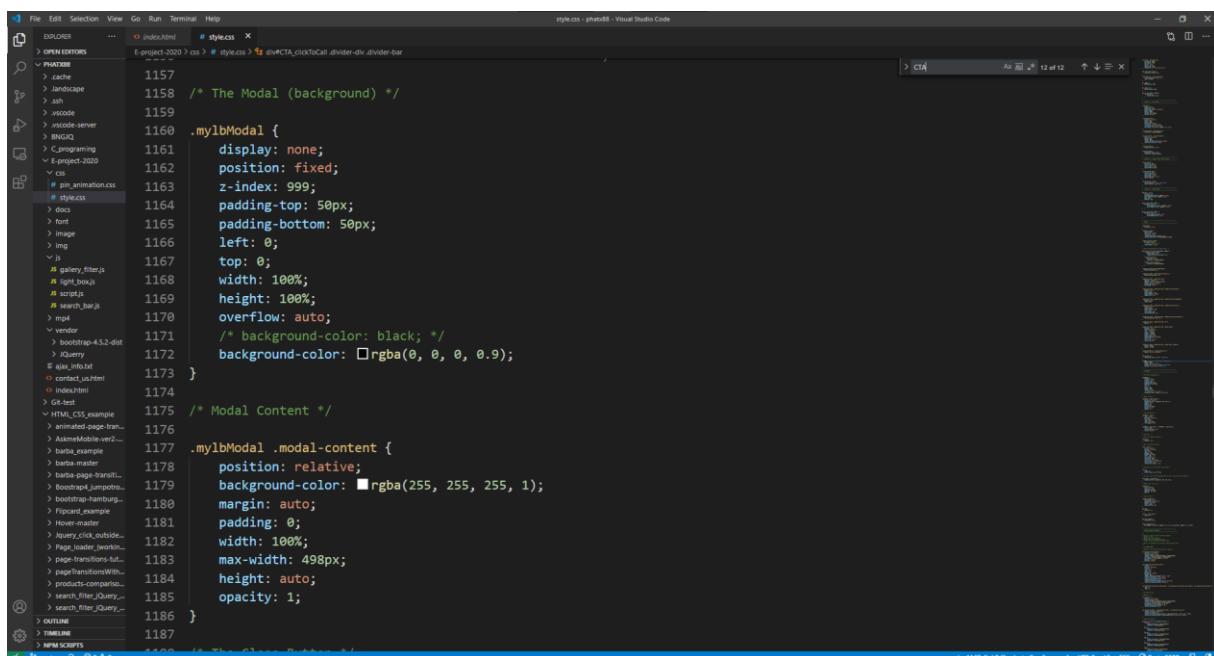
HTML code:



A screenshot of Visual Studio Code showing the HTML code for `index.html`. The code includes a navigation bar, a content area, and a side menu. The side menu contains links to various external websites like Facebook Messenger and Google Maps. The code uses Bootstrap classes like `btn`, `hvr-icon-grow`, and `hvr-icon-wobble-horizontal`.

```
<!-- Page Content Holder -->
<!-- NAVBAR + CONTENT -->
<div id="content">
    <!-- CTA SIDE MENU -- START-->
    <div class="bg-warning CTA_chat" id="CTA_chat">
        <a class="btn hvr-icon-wobble-horizontal">
            <i class="fas fa-angle-double-right hvr-icon" data-toggle="tooltip" data-placement="top" title="Close" data-trigger="hover"></i>
        </a>
        <a class="btn hvr-icon-grow" data-toggle="modal" data-target="#CTA_clickToCall">
            <i class="fas fa-phone hvr-icon"></i>
        </a>
        <a href="http://m.me/phat.x.luong/" target="_blank" class="btn hvr-icon-grow" target="_blank">
            <i class="fab fa-facebook-messenger hvr-icon"></i>
        </a>
        <a class="btn hvr-icon-grow" data-toggle="modal" data-target="#location_btn">
            <i class="fas fa-map-marker-alt hvr-icon"></i>
        </a>
    </div>
    <!-- CTA SIDE MENU -- END -->
<nav class="navbar navbar-expand-lg navbar-light bg-light" id="navbar">...
```

CSS code:



A screenshot of Visual Studio Code showing the CSS code for `style.css`. It defines a modal window with a black background and a white content area. The modal has a fixed position and is centered on the screen.

```
/* The Modal (background) */
.mybModal {
    display: none;
    position: fixed;
    z-index: 999;
    padding-top: 50px;
    padding-bottom: 50px;
    left: 0;
    top: 0;
    width: 100%;
    height: 100%;
    overflow: auto;
    /* background-color: black; */
    background-color: #rgba(0, 0, 0, 0.9);
}

/* Modal Content */
.mybModal .modal-content {
    position: relative;
    background-color: #fff;
    margin: auto;
    padding: 0;
    width: 100%;
    max-width: 498px;
    height: auto;
    opacity: 1;
}
```

8.7 Product Details Page

We created a html page detailing product's features for each of the phone models on our website.

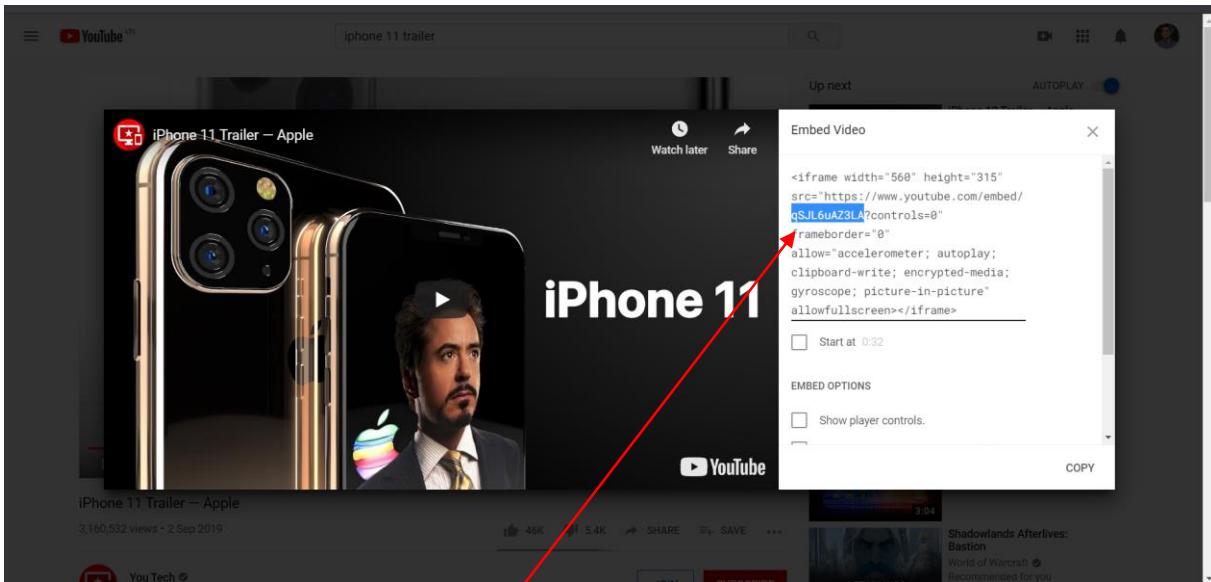
The screenshot shows a mobile application interface for 'AskME!Mobile'. On the left is a sidebar with a search bar, a menu icon, and category dropdowns for Apple (selected), Samsung, Nokia, and Features. Below these are buttons for 'Contact Us' and 'Home Page'. The main content area displays three smartphone models: 'iPhone 11 Pro Max' (dual-camera system, green back), 'iPhone 11' (single-camera system, red back), and 'Apple iPhone XR' (triple-camera system, yellow back). Each card includes a brief description and two buttons: 'Compare' and 'Download'. A top banner discusses the history of the iPhone. A yellow navigation bar on the right includes icons for back, forward, home, and location.

8.7.1 Youtube embedded promotional videos.

This is an embedded YouTube video showing a trailer of this phone modal



HTML code:



The screenshot shows a Visual Studio Code editor with an orange box highlighting the "BANNER" section of the "detail_iphone_11.html" file. The code within the banner section includes an iframe with a frameborder of 0. A red arrow points from this code to the "MAIN PRODUCT DETAIL" section, where another iframe is shown with a frameborder of 8, which is highlighted in blue. The code editor interface shows various files and folders on the left, and a sidebar on the right.

```
<!-- BANNER -->


<iframe width="100%" height="728" src="https://www.youtube.com/embed/qSJL6uAZ3LA?autoplay=1&controls=0&loop=1&playlist=qSJL6uAZ3LA&mute=1" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>


<!-- MAIN PRODUCT DETAIL -->
<section class="product_detail m-auto">
<div class="card_detail">
<div class="container-fluid">
<div class="wrapper row">
<div class="preview col-lg-7">
<div class="preview-pic tab-content">
<div class="tab-pane active" id="pic-1"><img
```

8.7.2 Product detail

The screenshot shows a product detail page for the iPhone 11. The top section features a large image of the phone, its price (\$799), and a rating of 5 stars from 54 reviews. Below this, there's a summary of the phone's success as the best-selling iPhone model. The middle section displays a smaller image of the phone and its colors (Red, Teal, Purple, White, Yellow, Black). A red arrow points from this image to the second screenshot below, which shows a similar layout but with a different phone model (iPhone XR) and a different background image. The bottom section is a modal window titled "Apple iPhone 11" containing detailed technical specifications like body, screen, OS, chipsets, memory, camera, video recording, selfie camera, and connectivity. A red arrow points from this modal to an orange callout box on the right that says: "Clicking on 'view specs' will open more info about the phone model".

IPHONE 11

★★★★★ 54 reviews

The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and we thought we'd never see the maker give this idea another try. Well, last year the iPhone XR was more than well received being the best selling iPhone of the trio, so this year we welcome its sequel - the iPhone 11.

PRICE: \$799

89% of buyers enjoyed this product! (87 votes)

COLORS:

STORAGE: 64GB 128GB 256GB

We used Bootstrap 4 “tab”, ‘data target’ attributes to build a bootstrap carousel, to show case the products screen shots

IPHONE XR

★★★★★ 54 reviews

The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and we thought we'd never see the maker give this idea another try. Well, last year the iPhone XR was more than well received being the best selling iPhone of the trio, so this year we welcome its sequel - the iPhone 11.

PRICE: \$799

89% of buyers enjoyed this product! (87 votes)

COLORS:

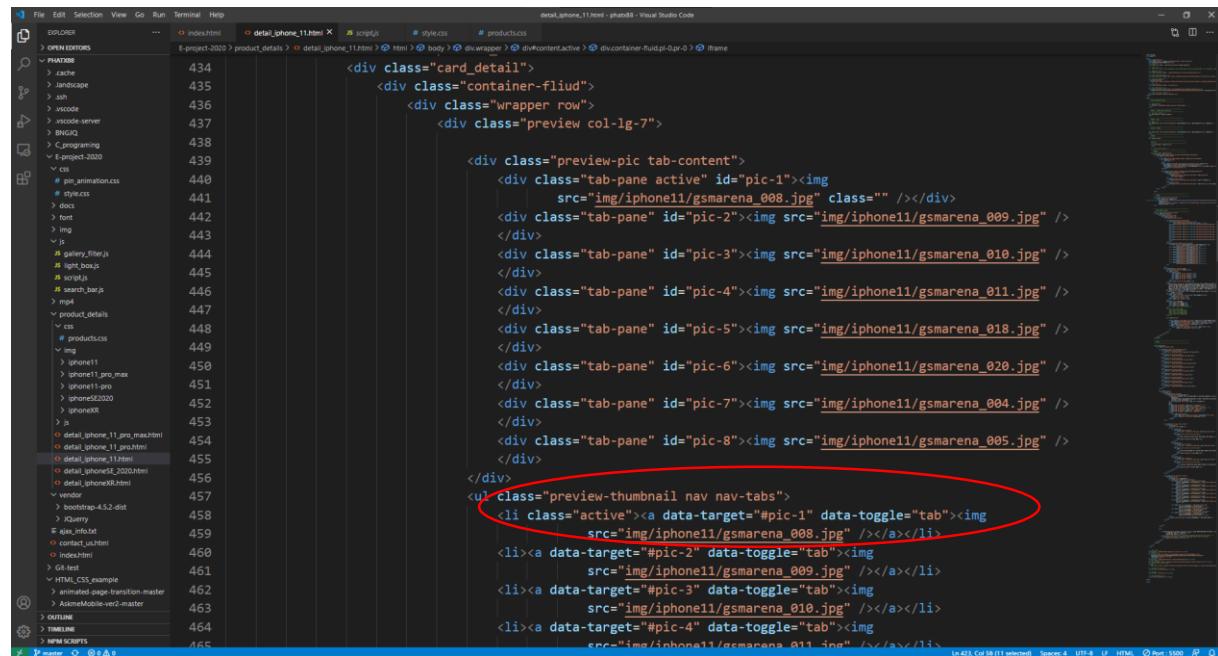
STORAGE: 64GB 128GB 256GB

Apple iPhone 11

- › **Body:** Aluminum frame, Gorilla Glass front with oleophobic coating, Gorilla Glass back with glossy finish, IP68 certified for water and dust resistance. Black, Green, Yellow, Purple, White, and Red color options.
- › **Screen:** 6.1" IPS LCD screen of 828 x 1792 px resolution, 326ppi, 625 nits, 120Hz touch sensing, wide color gamut. True Tone adjustment via a six-channel ambient light sensor.
- › **OS:** Apple iOS 13
- › **Chipset:** Apple A13 Bionic chip (7nm+) - Hexa-core (2x2.66 GHz Lightning + 4x1.8 GHz Thunder) Apple CPU, four-core Apple GPU, 8-core Apple NPU 3-gen
- › **Memory:** 4GB of RAM; 64/128/256GB of internal storage
- › **Camera:** Dual 12MP camera: 26mm main wide-angle, F/1.8, OIS, Dual Pixel AF; 13mm ultra wide-angle, F/2.4, 120-degree field of view; quad-LED flash with slow sync
- › **Video recording:** 2160p@60/30fps, 1080p@30/60/120/240fps video recording with wider dynamic range and spatial sound, OIS + EIS
- › **Selfie:** Dual camera - 23mm 12MP F/2.2 front-facing camera with HDR mode + 3D TOF camera; 2160p@60/30fps, 1080p@30/60/120fps video recording with wider dynamic range and spatial sound, EIS, depth detection for Portrait mode
- › **Connectivity:** Dual SIM, 4G LTE (1 Gbps); Wi-Fi a/b/g/n/ac/ax; Bluetooth 5.0; Lightning port; GPS

Clicking on 'view specs' will open more info about the phone model

HTML code:

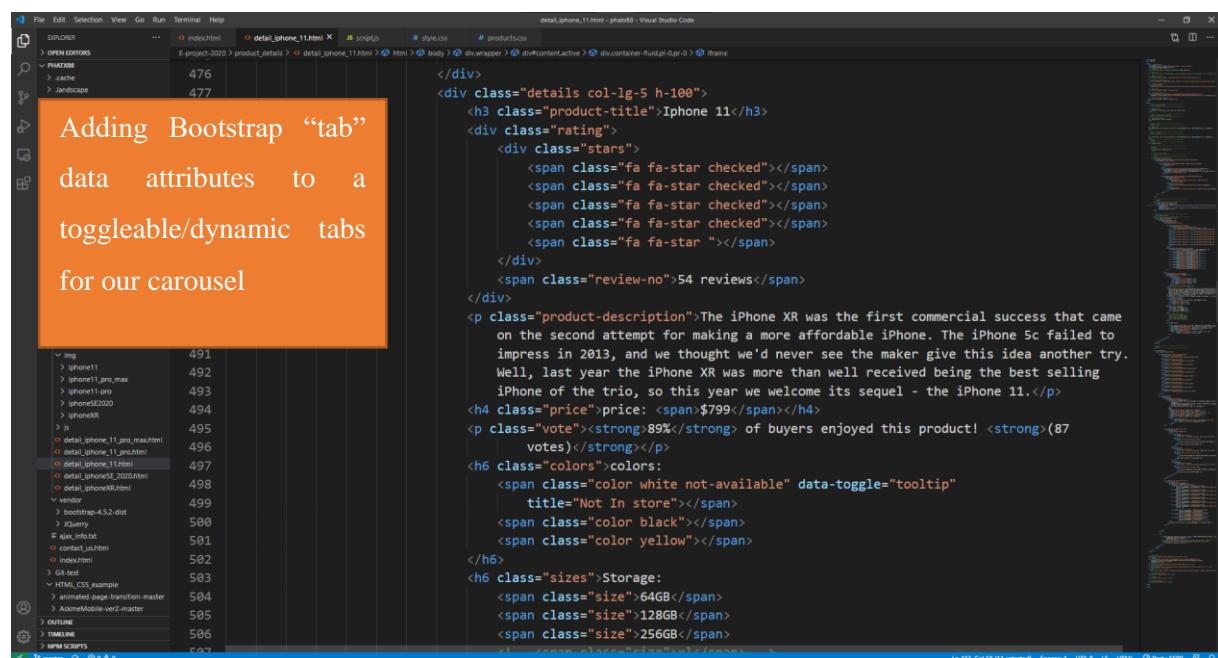


```

<div class="card_detail">
  <div class="container-fluid">
    <div class="wrapper row">
      <div class="preview col-lg-7">
        <div class="preview-pic tab-content">
          <div class="tab-pane active" id="pic-1"></div>
          <div class="tab-pane" id="pic-2"></div>
          <div class="tab-pane" id="pic-3"></div>
          <div class="tab-pane" id="pic-4"></div>
          <div class="tab-pane" id="pic-5"></div>
          <div class="tab-pane" id="pic-6"></div>
          <div class="tab-pane" id="pic-7"></div>
          <div class="tab-pane" id="pic-8"></div>
        </div>
        <ul class="preview-thumbnail nav nav-tabs">
          <li class="active"><a data-target="#pic-1" data-toggle="tab"></a></li>
          <li><a data-target="#pic-2" data-toggle="tab"></a></li>
          <li><a data-target="#pic-3" data-toggle="tab"></a></li>
          <li><a data-target="#pic-4" data-toggle="tab"></a></li>
        </ul>
      </div>
    </div>
  </div>

```

Adding Bootstrap "tab" data attributes to a toggleable/dynamic tabs for our carousel

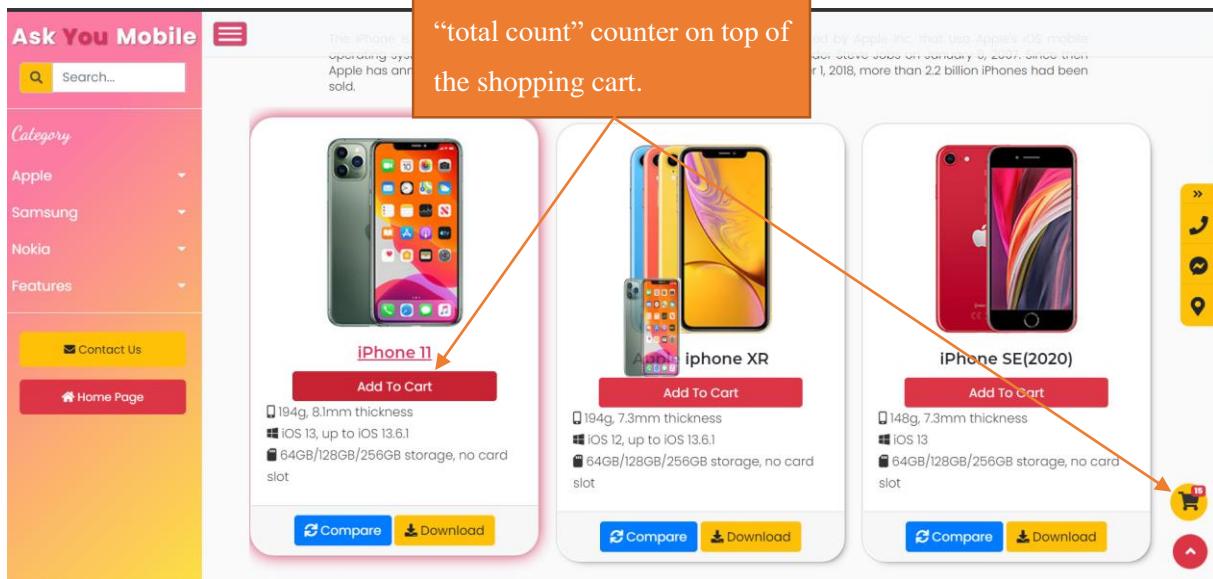


```

<div class="details col-lg-5 h-100">
  <h3 class="product-title">iPhone 11</h3>
  <div class="rating">
    <div class="stars">
      <span class="fa fa-star checked"></span>
      <span class="fa fa-star checked"></span>
      <span class="fa fa-star checked"></span>
      <span class="fa fa-star checked"></span>
      <span class="fa fa-star "></span>
    </div>
    <span class="review-no">54 reviews</span>
  </div>
  <p class="product-description">The iPhone XR was the first commercial success that came on the second attempt for making a more affordable iPhone. The iPhone 5c failed to impress in 2013, and we thought we'd never see the maker give this idea another try. Well, last year the iPhone XR was more than well received being the best selling iPhone of the trio, so this year we welcome its sequel - the iPhone 11.</p>
  <h4 class="price">price: <span>$799</span></h4>
  <p class="vote"><strong>89%</strong> of buyers enjoyed this product! <strong>(87 votes)</strong></p>
  <h6 class="colors">colors:<br/>
    <span class="color white not-available" data-toggle="tooltip" title="Not in store"></span>
    <span class="color black"></span>
    <span class="color yellow"></span>
  </h6>
  <h6 class="sizes">Storage:<br/>
    <span class="size">64GB</span>
    <span class="size">128GB</span>
    <span class="size">256GB</span>
  </h6>

```

8.7.3 Add To Cart



The screenshot shows the 'Your Cart' section of the website. It lists items with their prices and quantities. An orange callout box with a pointer from the top right says: "We save data collect into session storage in Json format and display it in HTML".

Item	Price	Quantity	Total
Galaxy S20	\$1099	6	\$6594.00
Nokia 5.3	\$699	1	\$699.00
Nokia 2.3	\$399	1	\$399.00
Nokia 7.2	\$999	1	\$999.00
Galaxy Z Fold	\$2049	1	\$2049.00
Galaxy Z flip	\$1499	1	\$1499.00
Motorola Razr	\$1699	1	\$1699.00
Galaxy M31s	\$499	1	\$499.00
Iphone 11	\$899	1	\$899.00

Clicking check-out will move users to check-out page. The information that was stored on previous page will show on “Order summary”

The screenshot shows the 'Order Summary' page. It lists the same items from the cart with their quantities and total price. An orange callout box with a pointer from the top left says: "Clicking check-out will move users to check-out page. The information that was stored on previous page will show on ‘Order summary’".

Item	Price	Quantity	Total
Galaxy S20	\$1099	6	\$6594.00
Nokia 5.3	\$699	1	\$699.00
Nokia 2.3	\$399	1	\$399.00
Nokia 7.2	\$999	1	\$999.00
Galaxy Z Fold	\$2049	1	\$2049.00
Galaxy Z flip	\$1499	1	\$1499.00
Motorola Razr	\$1699	1	\$1699.00
Galaxy M31s	\$499	1	\$499.00
Iphone 11	\$899	1	\$899.00

TOTAL: \$15336

JS code:

The screenshot shows a code editor with two orange callout boxes containing explanatory text. One callout box is positioned above a section of code that handles saving the shopping cart to session storage. The other callout box is positioned below a section of code that displays the cart's contents by adding strings to an HTML table.

Save data as JSON format and save it in local session using sessionStorage.

```
4 // Shopping Cart API
5 // ****
6
7 var shoppingCart = (function () {
8     // =====
9     // Private methods and properties
10    // =====
11    cart = [];
12
13    // Constructor
14    function item(name, price, count, img) {
15        this.name = name;
16        this.price = price;
17        this.count = count;
18        this.img = img;
19    }
20
21    // Save cart
22    function saveCart() {
23        sessionStorage.setItem('shoppingCart', JSON.stringify(cart));
24    }
25
26    // Load cart
27    function loadCart() {
28        cart = JSON.parse(sessionStorage.getItem('shoppingCart'));
29    }
30    if (sessionStorage.getItem("shoppingCart") != null) {
31        loadCart();
32    }
33
34    // =====
35    // Public methods and properties
36    // =====
37    var obj = {};
38
39    // Add to cart
40    obj.addItemToCart = function (name, price, count, i
41
```

Display data from by adding string to HTML table.

```
143 // Triggers / Events
144 // ****
145 // Add item
146 $('.add-to-cart').click(function (event) {
147     event.preventDefault();
148     var img = $(this).data('img');
149     var name = $(this).data('name');
150     var price = Number($(this).data('price'));
151     shoppingCart.addItemToCart(name, price, 1, img);
152     displayCart();
153 });
154
155 // Clear items
156 $('.clear-cart').click(function () {
157     shoppingCart.clearCart();
158     displayCart();
159 });
160
161
162 function displayCart() {
163     var cartArray = shoppingCart.listCart();
164     var output = "Your cart is empty";
165     for (var i in cartArray) {
166         output += "<tr>" +
167             "<td>" + "" +
168             "<td><b>" + "$" + cartArray[i].name + "</b></td>" +
169             "<td><b>" + "$" + cartArray[i].price + "</b></td>" +
170             "<td><button class='input-group-addon btn btn-primary p-0' data-name=" + cartArray[i].name + ">-</button>" +
171             "<input type='number' min='1' class='item-count form-control' data-name=" + cartArray[i].name + "" value=" + cartArray[i].count + ">" +
172             "<button class='plus-item btn btn-primary input-group-addon p-0' data-name=" + cartArray[i].name + ">+</button>" +
173             "<td><button class='delete-item btn btn-danger' data-name=" + cartArray[i].name + "><i class='fa fa-trash' aria-hidden='true'></i></button>" +
174             "<td>" +
175             "<td><b>" + "$" + cartArray[i].total + "</b></td>" +
176             "</td>" +
177         "<tr>";
178     }
179     $('.show-cart').html(output);
180     $('.total-cart').html(shoppingCart.totalCart());
181     $('.total-count').html(shoppingCart.totalCount());
182 }
```

```

103     obj.totalCart = function () {
104         var totalCart = 0;
105         for (var item in cart) {
106             totalCart += cart[item].price * cart[item].count;
107         }
108         return Number(totalCart.toFixed(2));
109     }
110
111     // List cart
112     obj.listCart = function () {
113         var cartCopy = [];
114         for (i in cart) {
115             item = cart[i];
116             itemCopy = {};
117             for (p in item) {
118                 itemCopy[p] = item[p];
119             }
120             itemCopy.total = Number(item.price * item.count).toFixed(2);
121             cartCopy.push(itemCopy);
122         }
123     }
124
125     return cartCopy;
126 }
127
128 // cart : Array
129 // Item : Object/Class
130 // addItemToCart : Function
131 // removeItemFromCart : Function
132 // clearCart : Function
133 // countCart : Function
134 // totalCart : Function
135 // listCart : Function
136 // saveCart : Function
137 // loadCart : Function
138
139 })(obj);
140

```

Function to handle data including save cart, delete cart, reset cart, display cart in HTML.

HTML code:

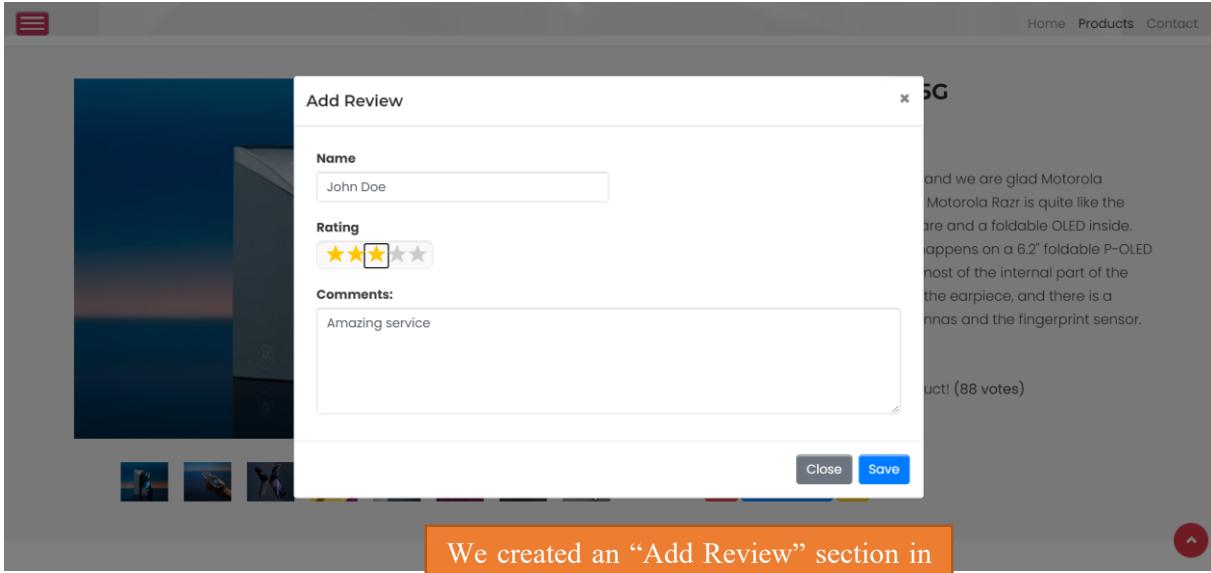
```

3572 <div class="flip-card-inner">
3573   <a href="product_details/detail_motorola Razr_5g.html">
3574     <div class="flip-card-front">
3575       
3576     </div>
3577     <div class="flip-card-back">
3578       
3579     </div>
3580   </div>
3581 </div>
3582
3583
3584
3585
3586   <a href="product_details/detail_motorola Razr_5g.html">
3587     <h5 class="card-title text-center">Motorola Razr 5G</h5>
3588   </a>
3589   <a class="add-to-cart btn btn-danger" data-name="Motorola&nbsp;Razr" data-price="599" data-img="">Add To Cart</a>
3590   <p class="card-text">
3591     <i class="fas fa-mobile-alt"></i> 190g, 8mm thickness
3592     <br>
3593     <i class="fab fa-windows"></i> Android 10
3594     <br>
3595     <i class="fas fa-sd-card"></i> 128GB storage, no card slot
3596   </p>
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```

Data attribute to collect strings value to store it in session storage

8.7.4 Rating modal



HTML code:

```

<div class="modal fade" id="staticBackdrop-2" data-backdrop="static" data-keyboard="false" tabindex="-1" aria-labelledby="staticBackdropLabel" aria-hidden="true">
  <div class="modal-dialog modal-lg modal-dialog-centered modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="staticBackdropLabel">Add Review</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <form id="review-form" onsubmit="alert('Thank You For Rating!');return false;">
        <div class="modal-body p-2">
          <div id="review-form-container">
            <div class="fieldset">
              <label for="reviewName">Name</label>
              <input name="reviewName" id="reviewName" class="form-control w-50" required="">
            </div>
            <div class="fieldset">
              <label>Rating</label>
              <div class="rate">
                <input type="radio" id="star5" name="rate" value="5" onkeydown="navRadioGroup(event)" onfocus="setFocus(event)" required="">
                <label for="star5" title="5 stars">5 stars</label>
                <input type="radio" id="star4" name="rate" value="4" onkeydown="navRadioGroup(event)">
                <label for="star4" title="4 stars">4 stars</label>
                <input type="radio" id="star3" name="rate" value="3" onkeydown="navRadioGroup(event)">
              </div>
            </div>
          </div>
        </div>
      </form>
    </div>
  </div>

```

The code editor shows the HTML structure of the rating modal. It includes a modal header with a close button, a form with a name input field, and a rating section using a class named "rate" which contains five radio buttons for star ratings. The code is part of a larger project structure, with files like "E-project-2020", "product_details", and various "detail_XXX.html" files visible in the sidebar.

We use some a code on code.pen as a reference for creating the rating page.



- > C_Programming
- > V-project-2020
- > Java
- > docs
- > img
- > js
- > mp4
- > product_details
 - > car
 - > img
 - > js
 - detail_phone_11_pro_max.htm
 - detail_phone_11_pro.htm
 - detail_phone_11.htm
 - detail_phone_10_2020.htm
 - detail_phone_10.htm
 - detail_phone_10_max.htm
 - detail_motorola_razr_5g.htm
 - detail_nokia_2-3.htm
 - detail_nokia_5-1.htm
 - detail_nokia_7-2.htm
 - detail_nokia_7-3.htm
 - detail_nokia_7-4.htm
 - detail_nokia_glassview.html
 - detail_nokia_C.htm
 - detail_samsung_A21s.htm
 - detail_samsung_A31.htm
 - detail_samsung_M31.htm
 - detail_samsung_M31n.htm
 - detail_samsung_S20.htm
 - detail_samsung_S20_5G.htm
 - detail_samsung_S40_5G.htm
 - > vendor
 - > ajay_info.txt
 - > contact_us.html
 - > index.html
 - > GR-HTML
 - > HTML_CSS_example
 - > HTML_CSS_tester
 - > OUTLINE
 - > TIMELINE
 - > NPM SCRIPTS

CSS code:

CSS code to add “star” when checking on input radio for rating.



```
File Edit Selection View Go Run Terminal Help products.css - phat88 - Visual Studio Code
E-project-2020> product_details > cs > products.css # products.csx
322 /* #star1:focus{
323
324 */
325
326 .rate2 {
327 |   float: none;
328 }
329
330 .rate:not(:checked)>label:before {
331 |   content: '★ ';
332 |   position: relative;
333 |   top: -10px;
334 |   left: 2px;
335 }
336
337 .rate>input:checked~label {
338 |   color: #ffc700;
339 |   /* outline: -webkit-focus-ring-color auto 5px; */
340 }
341
342 .rate>input:checked:focus+label, .rate>input:focus+label {
343 |   outline: -webkit-focus-ring-color auto 5px;
344 }
345
346 .rate:not(:checked)>label:hover, .rate:not(:checked)>label:hover~label {
347 |   color: #0de217;
348 |   /* outline: -webkit-focus-ring-color auto 5px; */
349 }
350
351 .rate>input:checked+label:hover, .rate>input:checked+label:hover~label, .rate>input:checkbox+label:hover, .rate>input:checkbox+label:hover~label, .rate>input:radio+label:hover, .rate>input:radio+label:hover~label {
352 |   color: #c59b08;
353 }
```

JS code:

```
const setFocus = (evt) => {
  const rateRadios = document.getElementsByName('rate');
  const rateRadiosArr = Array.from(rateRadios);
  const anyChecked = rateRadiosArr.some(radio => { return radio.checked === true; });
  // console.log('anyChecked', anyChecked);
  if (!anyChecked) {
    const star1 = document.getElementById('star1');
    star1.focus();
    // star1.checked = true;
  }
};

const navRadioGroup = (evt) => {
  // console.log('key', evt.key, 'code', evt.code, 'which', evt.which);
  // console.log(evt);

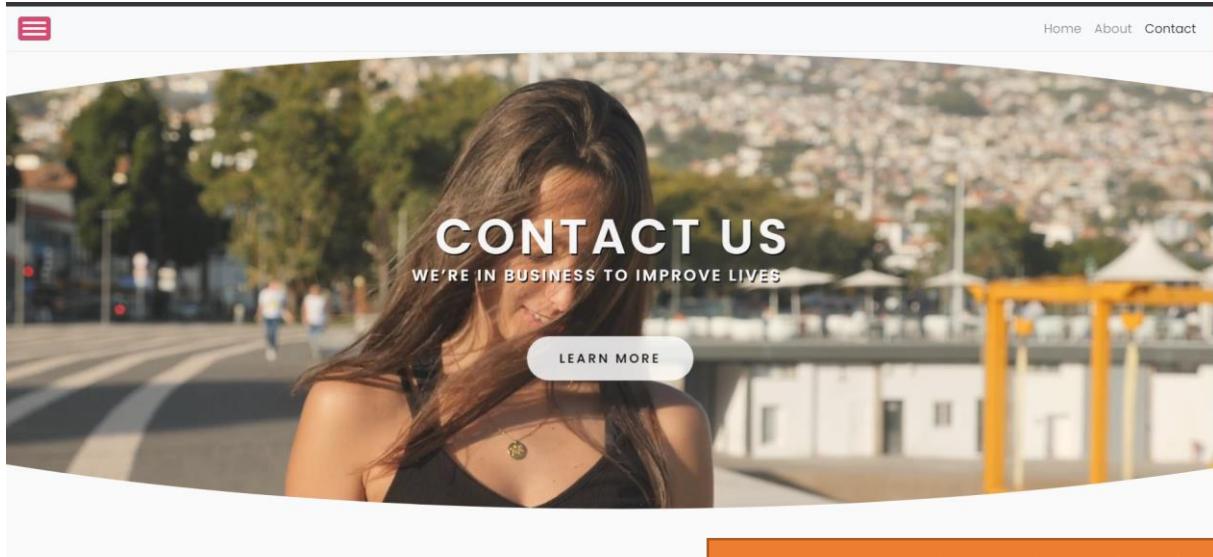
  const star1 = document.getElementById('star1');
  const star2 = document.getElementById('star2');
  const star3 = document.getElementById('star3');
  const star4 = document.getElementById('star4');
  const star5 = document.getElementById('star5');

  if(['ArrowRight', 'ArrowLeft', 'ArrowDown', 'ArrowUp'].includes(evt.key)) {
    evt.preventDefault();
    // console.log('attempting return');
    if (evt.key === 'ArrowRight' || evt.key === 'ArrowDown') {
      switch(evt.target.id) {
        case 'star1':
          star2.focus();
          star2.checked = true;
          break;
        case 'star2':
          star3.focus();
          star3.checked = true;
          break;
        case 'star3':
          star4.focus();
          star4.checked = true;
          break;
        case 'star4':
          star5.focus();
          star5.checked = true;
          break;
        case 'star5':
          star1.focus();
          star1.checked = true;
          break;
      }
    } else if (evt.key === 'ArrowLeft' || evt.key === 'ArrowUp') {
      switch(evt.target.id) {
        case 'star1':
          star5.focus();
          star5.checked = true;
          break;
        case 'star2':
          star1.focus();
          break;
      }
    }
  }
};
```

Code to handle focus and input keys for star rating using “left, right, up, down” arrows

8.8 Contact Us Page

8.8.1 Contact Us - Hero Banner –



A MP4 promotional video link is embedded in the HTML as background video.

HTML code:

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File Edit Selection View Go Run Terminal Help
EXPLORE
OPENSITES
PHOTOS
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contact_us.html - phant08 - Visual Studio Code
</nav>
<!--
  BANNER
-->
<div class="banner_about container-fluid overflow-hidden p-0">
  <div class="embed-responsive embed-responsive-16by9 text_logo">
    <video autoplay muted loop poster="img/vlcsnap-2020-09-10-09h33m25s677.jpg">
      <source src="" data-src="mp4\coverr--07-20-fitness-girl-exercising-in-city-38-4928.mp4" type="video/mp4" class="embed-responsive-item">
    </video>
  </div>
  <div class="text_box">
    <h3 class="heading_primary">
      <span class="heading_main">Contact Us</span>
      <span class="heading_sub">We're in Business to Improve Lives</span>
    </h3>
    <span><a href="#contact" class="btn btn-white btn-animated">Learn More</a></span>
  </div>
<!--
  CONTACT US
-->
<section id="contact">
  <div class="container-fluid text-center pb-5 pt-3">
    <div class="row mt-5">
```

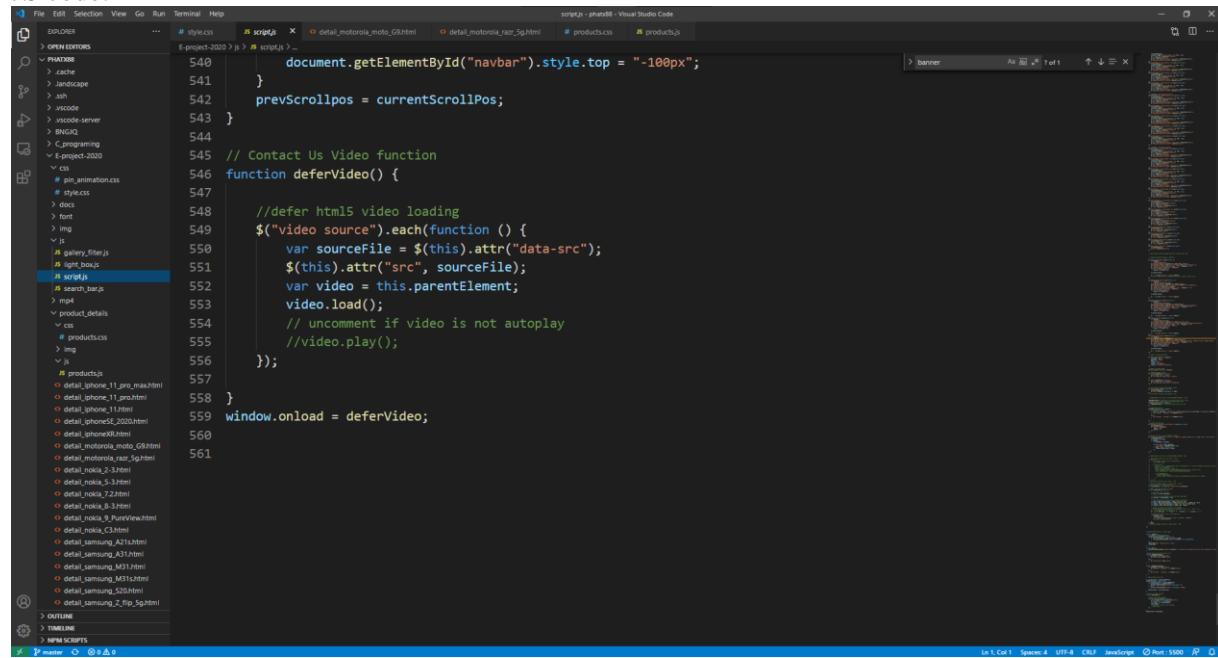
CSS code:

Three screenshots of Visual Studio Code showing the CSS code for the 'CONTACT US - Banner video' section across three different file versions (style.css, style.css, and style.css).

```

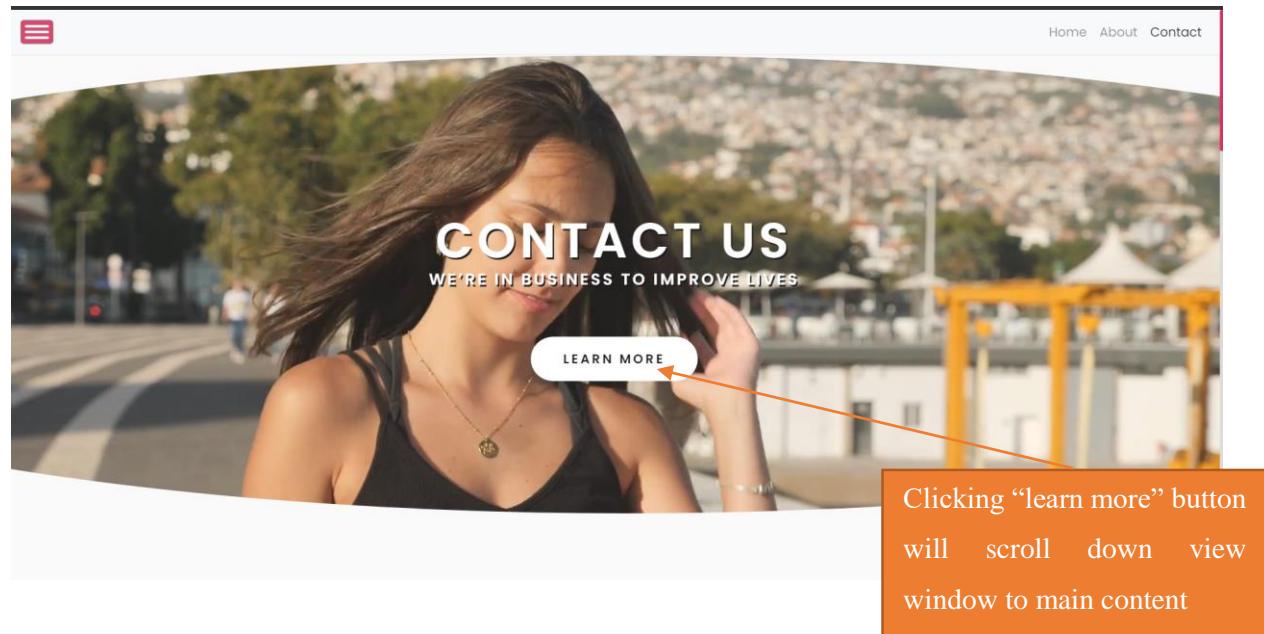
1997 CONTACT US - Banner video
1998
1999
2000 .banner_about {
2001     position: relative;
2002     height: 100vh;
2003     background-position: top;
2004     background-size: cover;
2005     z-index: 2;
2006     background-color: black;
2007     opacity: 0.9;
2008     clip-path: ellipse(86% 40% at 51% 48%);
2009 }
2100
2111 .text_box {
2112     position: absolute;
2113     top: 50%;
2114     left: 50%;
2115     transform: translate(-50%, -50%);
2116     text-align: center;
2117 }
2118
2119 .heading_primary {
2120     color: white;
2121     text-transform: uppercase;
2122     margin-bottom: 60px;
2123 }
2124
2125 .heading_main {
2126     display: block;
2127     font-size: 62px;
2128     font-weight: 400px;
2129     letter-spacing: 5px;
2130     animation: moveLeft 5s ease-out;
2131     /* animation-delay: 1s; */
2132     text-shadow: 2px 2px 0px rgba(0, 0, 0, 1);
2133 }
2134
2135 .heading_sub {
2136     display: block;
2137     font-size: 20px;
2138     font-weight: 700px;
2139     letter-spacing: 3px;
2140     animation: moveRight 5s ease-out;
2141     text-shadow: 2px 2px 0px rgba(0, 0, 0, 1);
2142 }
2143
2144 @media screen and (max-width: 858px) {
2145     .heading_main {
2146         font-size: 24px;
2147     }
2148     .heading_sub {
2149         font-size: 12px;
2150     }
2151     .text_box>span a {
2152         font-size: 10px !important;
2153     }
2154 }
2155
2156
2157 @keyframes moveLeft {
2158     0% {
2159         opacity: 0;
2160         transform: translateX(-100px);
2161     }
2162     80% {
2163         transform: translateX(5px);
2164     }
2165     100% {
2166         opacity: 1;
2167         transform: translateX(0);
2168     }
2169 }
2170
2171 @keyframes moveRight {
2172     0% {
2173         opacity: 0;
2174         transform: translateX(100px);
2175     }
2176     80% {
2177         transform: translateX(-20px);
2178     }
2179     100% {
2180         opacity: 1;
2181         transform: translateX(0);
2182     }
2183 }
2184
2185 @keyframes moveBottom {
2186     0% {
2187         opacity: 0;
2188         transform: translateY(-50px);
2189     }
2190     80% {
2191         opacity: 1;
2192         transform: translateY(0);
2193     }
2194     100% {
2195         opacity: 0;
2196         transform: translateY(50px);
2197     }
2198 }
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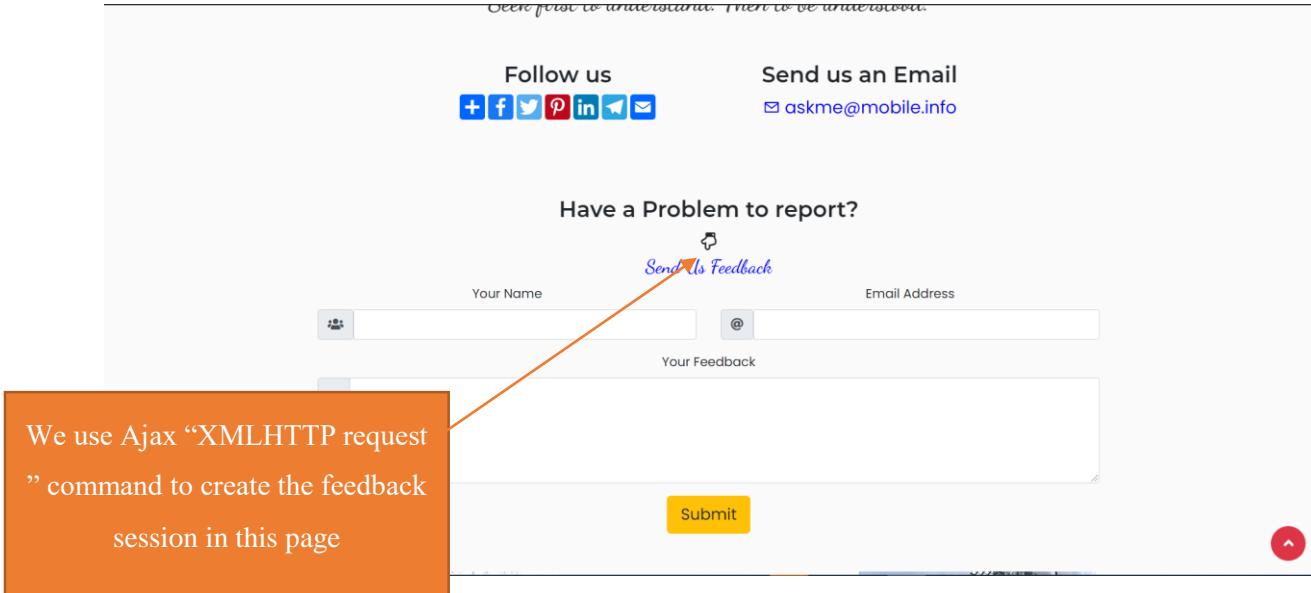
JS code:



```
document.getElementById("navbar").style.top = "-100px";
prevScrollpos = currentScrollPos;
// Contact Us Video function
function deferVideo() {
    //defer html5 video loading
    $("video source").each(function () {
        var sourcefile = $(this).attr("data-src");
        $(this).attr("src", sourcefile);
        var video = this.parentElement;
        video.load();
        // uncomment if video is not autoplay
        //video.play();
    });
}
window.onload = deferVideo;
```

8.8.2 Contact Us – Feedback & Inquiries –

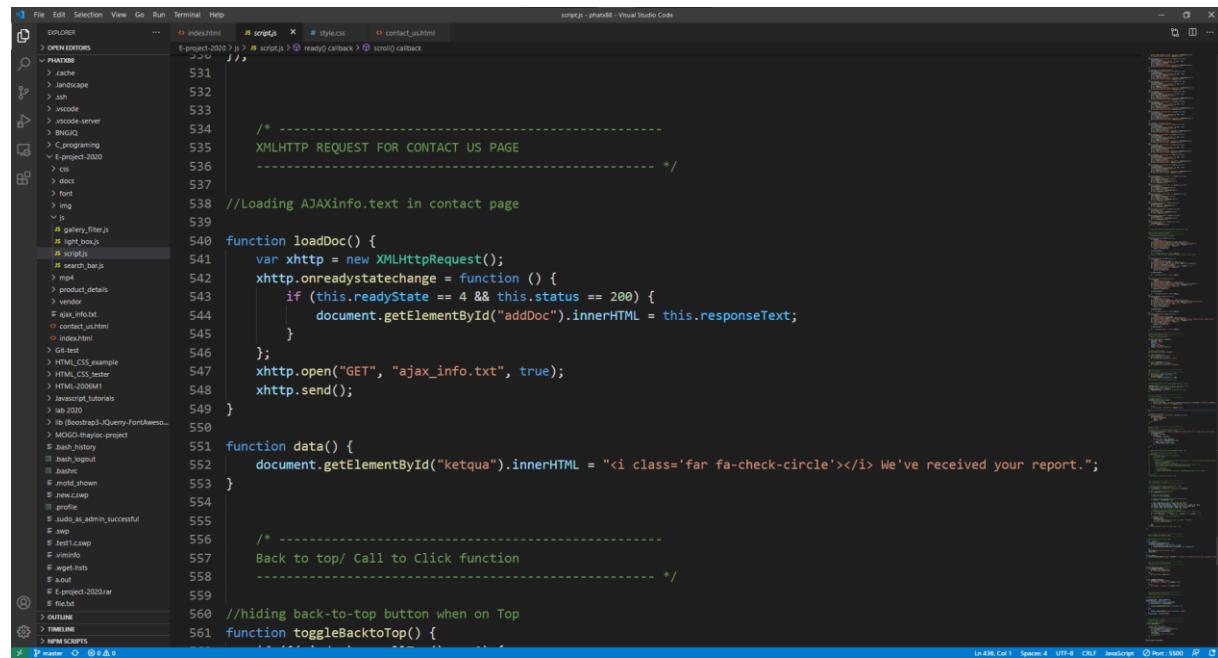




HTML code:

```
<div class="row mt-5">
    <div class="col-md-3"></div>
    <div class="col-md-3">
        <h3 class="title hvr-pulse-grow">Follow us</h3>
        <!-- AddToAny BEGIN -->
        <div class="a2a_kit a2a_kit_size_32 a2a_default_style mb-5">
            <div class="m-auto">
                <a class="a2a_dd" href="https://www.addtoany.com/share"></a>
                <a class="a2a_button_facebook"></a>
                <a class="a2a_button_twitter"></a>
                <a class="a2a_button_pinterest"></a>
                <a class="a2a_button_linkedin"></a>
                <a class="a2a_button_telegram"></a>
                <a class="a2a_button_email"></a>
                <script async src="https://static.addtoany.com/menu/page.js"></script>
            </div>
        </div>
        <!-- AddToAny END -->
    </div>
    <div class="col-md-3">
        <h3 class="title hvr-pulse-grow">Send us an Email</h3>
        <div class="API text-center mb-5">
            <a href="mailto:nghipham27121998@outlook.com?subject=Your Feedback"
                style="color: #blue;">#99993; askme@mobile.info</a>
        </div>
    </div>
    <div class="col-md-3"></div>
</div>
<div class="row mt-5">
    <div class="col-md-8 offset-md-2">
        <h3 class="title hvr-pulse-grow text-center">Have a Problem to report?</h3>
```

JS code:

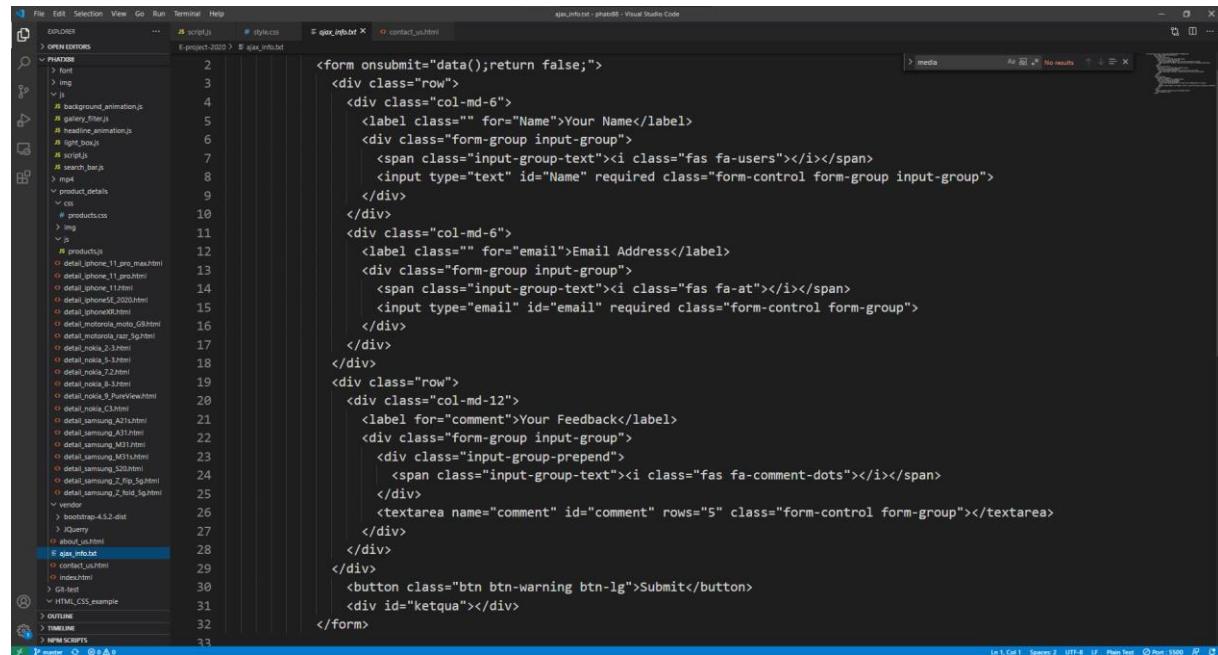


```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
    index.html script.js style.css contact_us.html
E-project-2020 > js > script.js > ready() callback > scroll() callback
531
532
533
534     /*
535      XMLHTTP REQUEST FOR CONTACT US PAGE
536      -----
537
538 //Loading AJAXinfo.txt in contact page
539
540 function loadDoc() {
541     var xhttp = new XMLHttpRequest();
542     xhttp.onreadystatechange = function () {
543         if (this.readyState == 4 && this.status == 200) {
544             document.getElementById("addDoc").innerHTML = this.responseText;
545         }
546     };
547     xhttp.open("GET", "ajax_info.txt", true);
548     xhttp.send();
549 }
550
551 function data() {
552     document.getElementById("ketqua").innerHTML = "<i class='far fa-check-circle'></i> We've received your report.";
553 }
554
555 /*
556 Back to top/ Call to Click function
557 -----
558 */
559
560 //hiding back-to-top button when on Top
561 function toggleBackToTop() {

```

Ajax text file:

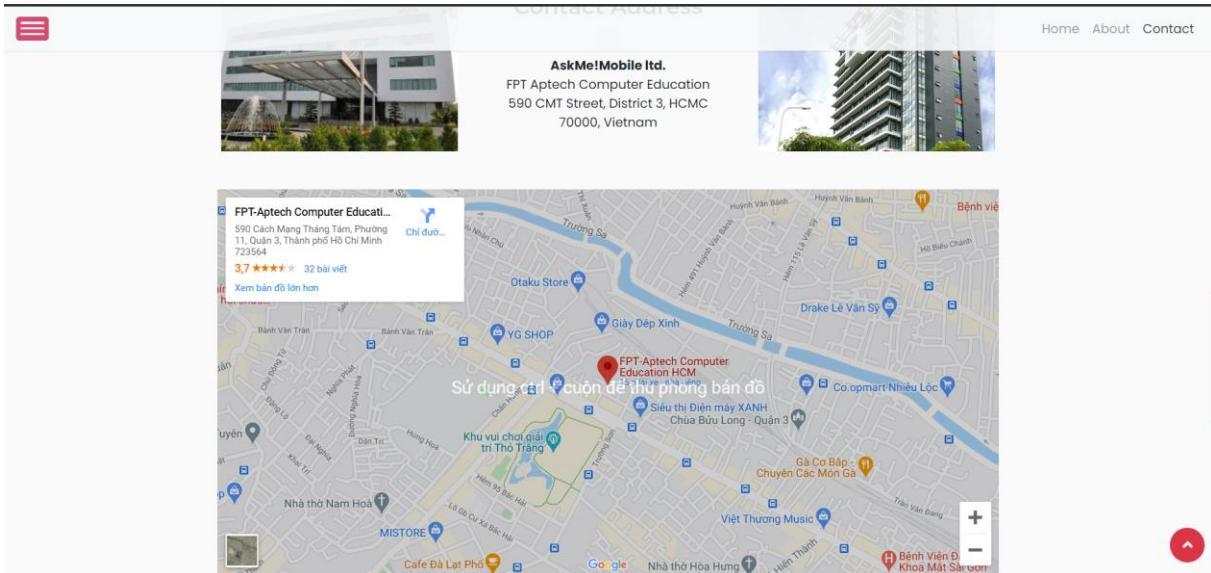


```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
    index.html style.css contact_us.html
E-project-2020 > js > ajax_info.txt
2
<form onsubmit="data();return false;">
3     <div class="row">
4         <div class="col-md-6">
5             <label class="" for="Name">Your Name</label>
6             <div class="form-group input-group">
7                 <span class="input-group-text"><i class="fas fa-users"></i></span>
8                 <input type="text" id="Name" required class="form-control form-group input-group">
9             </div>
10            <div class="col-md-6">
11                <label class="" for="email">Email Address</label>
12                <div class="form-group input-group">
13                    <span class="input-group-text"><i class="fas fa-at"></i></span>
14                    <input type="email" id="email" required class="form-control form-group input-group">
15                </div>
16                <div class="col-md-6">
17                    <label for="comment">Your Feedback</label>
18                    <div class="form-group input-group">
19                        <div class="input-group-prepend">
20                            <span class="input-group-text"><i class="fas fa-comment-dots"></i></span>
21                        </div>
22                        <textarea name="comment" id="comment" rows="5" class="form-control form-group"></textarea>
23                    </div>
24                </div>
25                <button class="btn btn-warning btn-lg">Submit</button>
26            </div>
27        <div id="ketqua"></div>
28    </form>
29
30
31
32
33

```

8.8.3 Contact Us – Geolocation/Google Map



HTML code:

We embedded the code from Google map to use to show our office location

```
<address class="mt-2">
    <strong> AskMe!Mobile ltd. </strong> <br>
    FPT Aptech Computer Education <br>
    590 CMT Street, District 3, HCMC <br>
    70000, Vietnam <br>
</address>

<div class="col-md-4 col-sm-12 thumbnail mb-5">
    
</div>

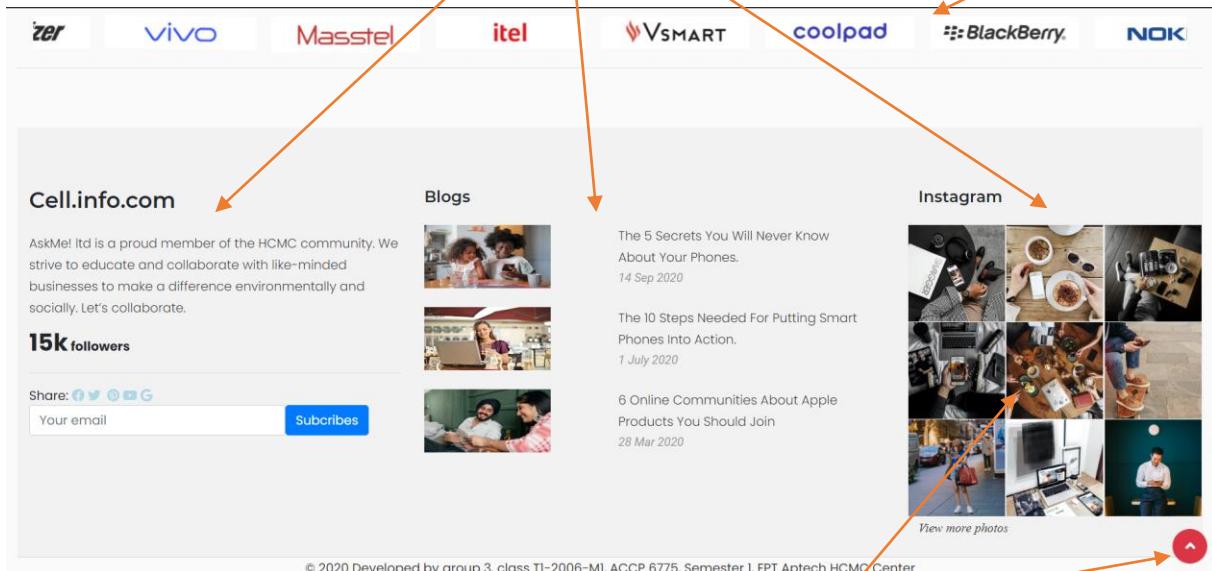
<div class="row">
    <div class="col-md-8 offset-md-2">
        <iframe
            src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3919.322629018092!2d106.663913!3d10.851029!4d106.665488!5e0!4f1!3m1!4s&q=FPT+aptech+computer+education+HCMC" style="border:0;" allowfullscreen="" aria-hidden="false" tabindex="0" class="w-100"></iframe>
    </div>
</div>
</div>
```

Using Bootstrap grid system, we created a visually stimulating footer session

8.9 Footer

This part use owl carousel

8.9.1 Footer – Bootstrap Layout



HTML code:

```

<div class="container-fluid">
    <div class="carousel-1 owl-carousel partner"> ...
    </div>
    <div class="social">
        <div class="row">
            <div class="col-12 col-lg-4"> ...
            </div>
            <div class="col-12 col-sm-6 col-lg-5"> ...
            </div>
            <div class="col-12 col-sm-6 col-lg-3"> ...
            </div>
        </div>
    </div>
    <div>
        <p class="mb-0 footer_bottom text-center"><strong> © 2020 Developed by group 3, class T1-2006-M1, ACCP 6775, Semester 1, FPT Aptech HCMC Center </strong></p>
        <!-- <a href="javascript:void()" class="btn btn-danger back-to-top hvr-icon-up" -->
        <a href="javascript:void(0)" class="btn btn-danger back-to-top hvr-icon-up">
            <i class="fas fa-angle-up hvr-icon"></i>
        </a>
    </div>

```

Built-in light box gallery &
Back_to_top button

Owl carousel session.

```

<div class="carousel-1 owl-carousel partner">
    <div class="item hvr-grow-rotate">
        
    </div>
    <div class="item hvr-grow-rotate">
        
    </div>
</div>

```



```

<div class="social">
    <div class="row">
        <div class="col-12 col-lg-4">
            <h3 class="title">Cell.info.com</h3>
            <p class="mb-2">AskMe! ltd is a proud member of the HCMC community. We strive to educate and collaborate with like-minded businesses to make a difference environmentally and socially. Let's collaborate.</p>
            <b><span style="font-size: 30px;">15k</span> followers</b>
            <hr>
            Share:
            <i class="fab fa-facebook" style="color: #lightblue;"></i>
            <i class="fab fa-twitter" style="color: #lightblue;"></i>
            <i class="fab fa-instagram-square" style="color: #lightblue;"></i>
            <i class="fab fa-pinterest" style="color: #lightblue;"></i>
            <i class="fab fa-youtube" style="color: #lightblue;"></i>
            <i class="fab fa-google" style="color: #lightblue;"></i>
        </div>
        <form>
            <div class="form-inline">
                <input type="text" class="form-control" placeholder="Your email">
                <button class="btn btn-primary">Subscribe</button>
            </div>
        </form>
    </div>
</div>

```



```

<div class="col-12 col-sm-6 col-lg-5">
    <div class="blog">
        <h5 class="title">Blogs</h5>
        ...
    </div>

```

```

<div class="col-12 col-sm-6 col-lg-5">
    <div class="blog">
        <h5 class="title">Blogs</h5>
        <div>
            <div class="row">
                <div class="col-6 col-sm-5">...</div>
                <div class="col-6 col-sm-7 pl-0 pr-5 mb-1">...</div>
            </div>
            <div class="row">
                <div class="col-6 col-sm-5">...</div>
                <div class="col-6 col-sm-7 pl-0 pr-5 mb-1">...</div>
            </div>
            <div class="row">
                <div class="col-6 col-sm-5">...</div>
                <div class="col-6 col-sm-7 pl-0 pr-5 mb-1">...</div>
            </div>
        </div>
    </div>
</div>
<div class="col-12 col-sm-6 col-lg-3">

```

JS code:

```

$(document).ready(function() {
    $(".carousel-1").owlCarousel({
        items: 7,
        rtl: true,
        dots: false,
        margin: 20,
        loop: true,
        autoplay: true,
        autoplayHoverPause: false,
        slideTransition: 'linear',
        autoplaySpeed: 5000,
        autoplayTimeout: 5000,
        responsive: {
            0: {
                items: 1,
                nav: false
            },
            600: {
                items: 3,
                nav: false
            },
            1000: {
                items: 5,
                nav: false
            },
            1200: {
                items: 7,
                nav: false
            }
        }
    });
});

```

Custom owl carousel
 jQuery for footer

8.9.2 Footer – Lightbox Gallery

Ce

Clicking here will open a lightbox gallery. We used W3C sample code to built the modal.

Blogs

The 5 Secrets You Will Never Know About Your Phones.
14 Sep 2020

The 10 Steps Needed For Putting Smart Phones into Action.
1 July 2020

6 Online Communities About Apple Products You Should Join
28 Mar 2020

Instagram

View more photos

Share: Your email

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Energizer vivo Masstel itel VSMART coolpad BlackBerry

Cell.info.com

AskMe! It is a proud member of the HCMC community. We strive to educate and collaborate with like-minded businesses to make a difference environmentally and socially. Let's collaborate!

15k followers

Share: Your email

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HTML code:

Using W3C “how to built a light box modal” as reference material, we built a custom light box for the footer session. This is a combination of a carousel within a modal.

File Edit Selection View Go Run Terminal Help

... index.html script.js style.css contact_us.html

E-project-2020 > contact_us.html -

EXPLORER OPEN EDITORS

PHANTOM

- > cache
- > landscape
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- > nodejs-server
- > BNGQ
- > C_programming
- > E-project-2020
 - > cs
 - > docs
 - > font
 - > img
 - > ts
 - gallery_filter.js
 - light_box.js
 - script.js
 - search_bar.js
 - > mp4
 - > product_details
 - > vendor
 - > ajax_info.js
- > contact_us
 - > index.html
 - > Git-test
 - > HTML_CSS_4
 - > HTML_CSS_5
 - > HTML_2000
 - > Instagram_js
 - > ab_2020
 - > lib_Bootstrap
 - > MOQO-thay
 - > bash_history
 - > bash_logout
 - > bashrc
 - > modal_show
 - > responsive
 - > profile
 - > studio_vs_code
 - > swap
 - > test_Css
 - > viminfo
 - > agent-hists
 - > ab_2020
 - > E-project-2020
 - > .netcat
- > OUTLINE
- > TIMELINE
- > NPM SCRIPTS

contact_us.html : phanb8 - Visual Studio Code

```
<h5 class="title">Instagram</h5>
<div class="row" style="cursor: pointer;">
  <div class="col-4"></div>
  <div class="col-4"></div>
  <div class="col-4"></div>
  <div class="col-4"></div>
  <div class="col-4"><a></div>
    <div class="col-4"><a></div>
    <div class="col-4"><a></div>
  </div>
  <a class="view-more-photo" onclick="openMyModal()">View more photos</a>
</div>
```

CSS

code:

```

1252 /* light Box */
1253
1254 /* Hide the slides by default */
1255
1256 .mySlides {
1257 |   display: none;
1258 }
1259
1260 /* Next & previous buttons */
1261
1262 .prev, .next {
1263 |   cursor: pointer;
1264 |   position: absolute;
1265 |   top: 50%;
1266 |   width: auto;
1267 |   padding: 16px;
1268 |   margin-top: -50px;
1269 |   color: #white;
1270 |   font-weight: bold;
1271 |   font-size: 20px;
1272 |   transition: 0.6s ease;
1273 |   border-radius: 0 3px 3px 0;
1274 |   user-select: none;
1275 |   -webkit-user-select: none;
1276 }
1277
1278 /* Position the "next button" to the right */
1279
1280 .next {
1281 |   right: 0;
1282 |   border-radius: 3px 0 0 3px;
1283 }

```

JS code:

```

11
12 var slideIndex = 1;
13 showSlides(slideIndex);
14
15 // Next/previous controls
16 function plusSlides(n) {
17 |   showSlides(slideIndex += n);
18 }
19
20 // Thumbnail image controls
21 function currentSlide(n) {
22 |   showSlides(slideIndex = n);
23 }
24
25 function showSlides(n) {
26 |   var i;
27 |   var slides = document.getElementsByClassName("mySlides");
28 |   var dots = document.getElementsByClassName("dots");
29 |   var captionText = document.getElementById("caption");
30 |   if (n > slides.length) {slideIndex = 1}
31 |   if (n < 1) {slideIndex = slides.length}
32 |   for (i = 0; i < slides.length; i++) {
33 |     slides[i].style.display = "none";
34 |   }
35 |   for (i = 0; i < dots.length; i++) {
36 |     dots[i].className = dots[i].className.replace(" active", "");
37 |   }
38 |   slides[slideIndex-1].style.display = "block";
39 |   dots[slideIndex-1].className += " active";
40 |   captionText.innerHTML = dots[slideIndex-1].alt;
41 }

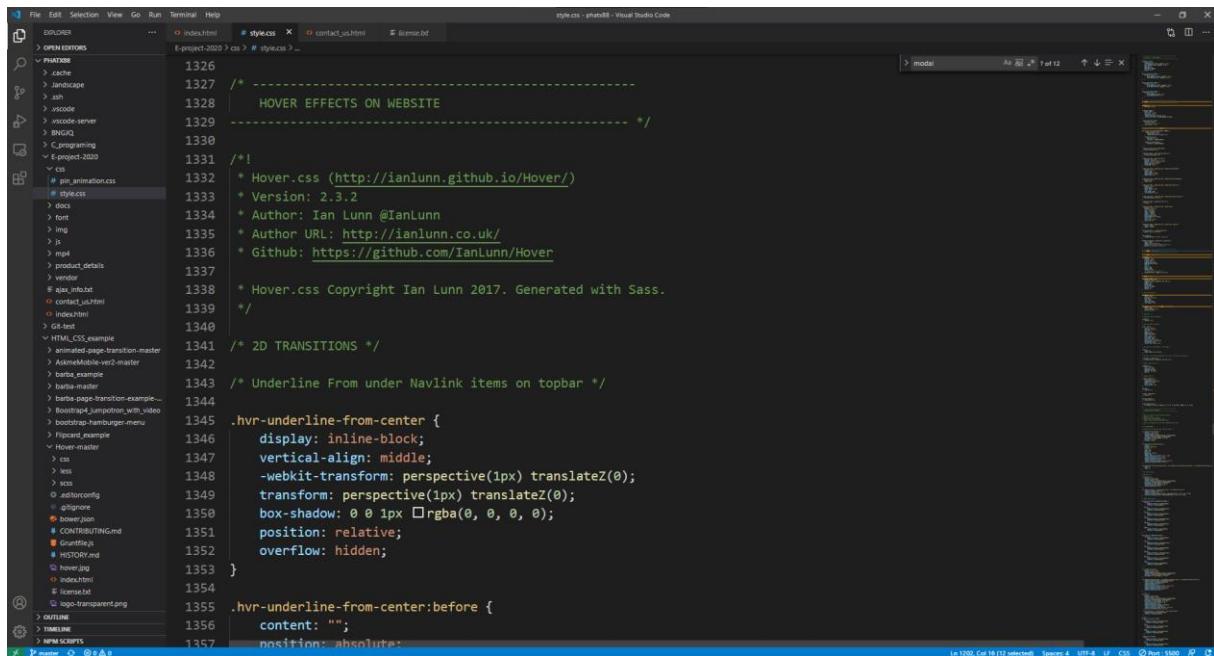
```

8.10 Miscellaneous CSS/Animation Modules

8.10.1 Hover.css by Ian Lunn

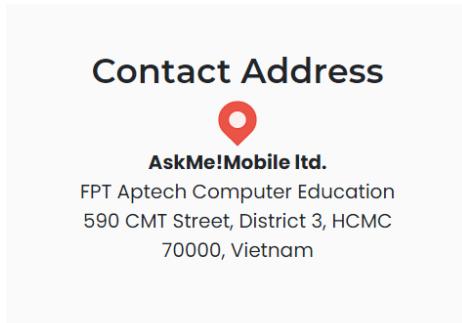
MIT lincesed css library we use on some of our hovering animation.

CSS code:



```
1326 /* -----
1327 | HOVER EFFECTS ON WEBSITE
1328 |
1329 ----- */
1330 /*!
1331 * Hover.css (http://ianlunn.github.io/Hover/)
1332 * Version: 2.3.2
1333 * Author: Ian Lunn @IanLunn
1334 * Author URL: http://ianlunn.co.uk/
1335 * Github: https://github.com/IanLunn/Hover
1336 *
1337 * Hover.css Copyright Ian Lunn 2017. Generated with Sass.
1338 */
1339 /* 2D TRANSITIONS */
1340 /* Underline From under Navlink items on topbar */
1341 .hvr-underline-from-center {
1342   display: inline-block;
1343   vertical-align: middle;
1344   -webkit-transform: perspective(1px) translateZ(0);
1345   transform: perspective(1px) translateZ(0);
1346   box-shadow: 0 0 1px 0 rgba(0, 0, 0, 0);
1347   position: relative;
1348   overflow: hidden;
1349 }
1350 .hvr-underline-from-center:before {
1351   content: "";
1352   position: absolute;
```

8.10.2 Pin Construction Animation by Nikolay Talanov



A little svg animation found on codepen, we emailed the author for permission to put it in our website for fun and giggle.

HTML code:

```
<svg class="pin" xmlns:rdf="http://www.w3.org/1999/02/rdf" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" viewBox="0 0 60 60" version="1.1">
  <g class="pin_group">
    <g class="pin_grayGroup">
      <path class="pin_square" fill="none" stroke-width="1" d="M0,0,60,60,60,0z" />
      <path class="pin_line pin_line-1" fill="none" stroke-width="1" d="M15,0 15,60" />
      <path class="pin_line pin_line-2" fill="none" stroke-width="1" d="M30,0 30,60" />
      <path class="pin_line pin_line-3" fill="none" stroke-width="1" d="M45,0 45,60" />
      <path class="pin_line pin_line-4" fill="none" stroke-width="1" d="M0,45 60,45" />
      <path class="pin_line pin_line-5" fill="none" stroke-width="1" d="M0,30 60,30" />
      <path class="pin_line pin_line-6" fill="none" stroke-width="1" d="M0,15 60,15" />
      <path class="pin_circleBig" fill="none" stroke-width="1" d="M60,30 a30,30 0 0,1 -60,0 a30,30 0 0,1 60,0" />
      <path class="pin_circleSmall" fill="none" stroke-width="1" d="M45,30 a15,15 0 0,1 -30,0 a15,15 0 0,1 30,0" />
    </g>
    <g class="pin_greenGroup">
      <path class="pin_outer" stroke-width="2" d="M30,0 a30,30 0 0,1 30,30 L60,60 a30,30 0 0,1 0,-60" />
      <path class="pin_innen" stroke-width="2" d="M45,30 a15,15 0 0,1 -30,0 a15,15 0 0,1 30,0" />
    </g>
  </g>
</svg>
```

The image shows a screenshot of Visual Studio Code with the file "contact_us.html" open. The code editor displays the SVG code for a pin construction animation. The code defines various paths for the pin's segments and circles, using classes like "pin_group", "pin_grayGroup", and "pin_greenGroup". The "pin_outer" path creates the outline of the pin, while the "pin_innen" path creates the inner circle. The "pin_square" path forms the base of the pin. Numerous stroke-width values like "1", "2", and "3" are used to define the thickness of the lines. The "viewBox" attribute is set to "0 0 60 60". The "version" attribute is set to "1.1". The "xlink" and "rdf" namespaces are also declared.

8.10.3 Chrome Native Lazy Load

By adding the HTML property loading="lazy" on img tag, we was able to utilize Chrome/Edge built-in browser support for "lazy" loading for pictures, iframe, youtube videos assets. We optimized the loading time on our site at the same time save a great deal on band-width. A simple waterfall test will show how much time and bandwidth amount we save after using lazy load.

The image shows two screenshots of a mobile browser's DevTools Network tab. The top part shows a full page load with many resources, while the bottom part shows a reduced number of requests and a faster load time after applying lazy loading. An orange callout box highlights the performance difference.

Using crt+f5 to clear cache, and reload the page. We can see that with "lazy" load we cut down over 30% of requests and over 95% amount on bandwidth data used. This greatly speed up loading time for our site. In this case, we was be able to save from .5s of loading time. Moreover, there are occasions we able to save in minutes of loading time.

In conclusion, using what we learned from inside and outside of the class-room. We was able to built a usefull website that was optimized for mobile devices in relative short amount of time. It was a very educational opportunity to work on such a fun project like AskMeMobile.

9 TASK SHEET 2

Project Ref No.	Project Title – Ask Me Mobile	Activity Plan Prepared by	Date of preparation of Activity Plan			
			Actual Start Date	Actual Days	Teammate Names	Status
Brainstorming ideas for layouts and Project Objectives.	Phát, Triệu, Nghĩa	05/09/2020	1 day	Phát, Triệu, Nghĩa	Completed	
Draw site maps and architecture design.	Phát	03/09/2020	1 days	Phát	Completed	
Wire framing general page layout.	Phát, Triệu	05/09/2020	4 days	Phát, Triệu	Completed	
Collect static assets (pictures, mp4, documentation)	Phát, Triệu, Nghĩa	05/09/2020	3 days	Phát, Triệu, Nghĩa	Completed	
Design & Build Home Page.	Phát	03/09/2020	15 days	Phát	Completed	
Design & Build Check out Page.	Phát	28/09/2020	3 days	Phát	Completed	
Design & Build Contact Us Page.	Triệu, Nghĩa	05/09/2020	4 days	Nghĩa	Completed	
Design & Build About Us Page.	Nghĩa	08/09/2020	4 days	Triệu, Nghĩa	Completed	
Design & Build Footer Session.	Triệu	12/09/2020	5 days	Triệu	Completed	
Design & Build Product Detail Pages.	Phát, Nghĩa, Triệu	19/09/2020	7 days	Phát, Nghĩa, Triệu	Completed	
Write project report Review 1	Phát	09/09/2020	3 days	Phát	Completed	
Testing UI.	Triệu, Nghĩa	15/09/2020	3 days	Triệu	Completed	
Testing Responsiveness.	Phát, Triệu, Nghĩa	15/09/2020	10 days	Triệu, Nghĩa	Completed	
Final Testing.	Triệu, Nghĩa	26/09/2020	3 days	Triệu, Nghĩa	Completed	
Write project report Review 2	Phát	17/09/2020	15 days	Phát	Completed	

10 CHECKLIST VALIDATION

Task No.	Requirement	Validation
1	The Home Page should be neatly created with proper logo, menu and images.	Yes
2	A Menu should be created which would categorize all the information about the features provided in the Site For e.g. a Menu for Various Cell phones, a Menu for Features of Cell phones etc. etc. something like that.	Yes
3	The information should be categorized according to the Brand names of Mobiles like if a User wants to see only Nokia Phones then he click on Some Nokia Link/button etc. and he will see only That Brand phones and so on.	Yes
4	A Brief summary of features of Individual phones should be displayed on the Web Page along with the Cell phone but detailed Features should be stored in Individual Word documents which can be downloaded or viewed by the User who wishes to see the same.	Yes
5	A Comparison Web Page should also be there where there is Phone comparisons done with various models of same brand or various models of various brands.	Yes
6	The Comparison information should be provided in Tabular format comparing the features of different phones.	Yes
7	This information would be for 5 Phones of similar brands and 2 phones of different brands for 1 month and then it will change so for the time being the Page should handle the above requirement.	Yes
8	The Colour Schemes should be soothing, more of Pastel Colours can be chosen for the same.	Yes
9	When a particular brand phones are being displayed the background image of the Web page should show the Logo of that brand for e.g. if Nokia Phones are being displayed then that page should have the Logo of NOKIA as the background image and the same in case of other Brands.	Yes
10	There should be a “Contact Us” page which will have the Address of the Company and the mail address which when clicked will invoke the local mail client from where they can send an email. Address of the Company should be displayed using GeoLocation API (eg. GoogleMaps)	Yes
11	The information on the mobile phones and all can be picked up from the Sites of Nokia, Samsung etc.	Yes
12	Make use of layers, buttons and modals components of Bootstrap & HTML to avoid creation of html pages.	Yes
13	Review the appearance and organization of the site.	Yes
14	Checking Responsive for small and medium screen.	Yes

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