

# Belleville Dental

**Supervisor:** *LÊ THANH NHÂN*

**Semester:** *01*

**Batch No:** *T1.2204.E1*

**Group No:** *04*

Order:	Full name	Roll No.
<i>1.</i>	<i>Nguyễn Thanh Vũ</i>	<i>Student1377163</i>
<i>2.</i>	<i>Nguyễn Mạnh Thắng</i>	<i>Student1378433</i>
<i>3.</i>	<i>Nguyễn Minh Luân</i>	<i>Student1376112</i>

*Month: 07 Year: 2022*

This is to certify that

Mr. NGUYỄN THANH VŨ

Mr. NGUYỄN MẠNH THẮNG

Mr. NGUYỄN MINH LUÂN

Have successfully Designed & Developed  
-----

**BELLEVILLE DENTAL**  
-----

Submitted by:

**Mr. LE THANH NHAN**  
-----

Date Of Issue:

-----

Authorized Signature:

-----

# Content

Content

Acknowledge

Synopsis

Review1 ..... 1

Review2 ..... 8

Review3 ..... 10

Tasksheet ..... 17

# Acknowledge

As we understand that the eProject is a step-by- step learning environment that closely simulates the class-room and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to.

- ✓ Practice step by step i.e. ladder approach.
- ✓ Build a larger more robust application.
- ✓ Usage of certain utilities in applications designed by user.
- ✓ Single program to unified code leading to a complete application.
- ✓ Learn implementation of concepts in a phased manner.
- ✓ Enhance skills and add value.
- ✓ Work on real life projects.
- ✓ Give a real life scenario and help to create applications more complicated and useful.
- ✓ Mentoring through email support.

We would like to send a great thank to our professor and others student for the addorable supports during the time in project.

Beside serveral mistakes we had made in the project, we hope to have more oppotunities to widen our knownledge in web developing world.

We also thank you so much for your information and the “demo” project from India APTECH to help us get more reality experience in this project. Since we have gained more experience from this project, we will not stop learning anything as much as we can to be more successful in the future.

Your Sincerely,

Team Group 04.

# Synopsis

The Objective of this program we aim is to give a sample project to work on real life projects. These applications help us build a larger more robust application.

The objective is not to teach us HTML/JavaScript but to provide us with a real life scenario and help us create basic applications using the tools.

Hence, we can revise the chapters before we start with the project.

This project is meant for students like us who have completed the module of HTML5. These programs should be done in the Lab sessions with assistance of the faculty if required.

The Belleville Dental website is a tool that brings everything in the world to you, where you can find the latest courses, information and research on oral health. Plus you can find oral care products, learn how they work, and have others rate them if you've used them before.

It is very essential for us that will have a clear understanding of the subject. We think we should go through the project and solve the assignments as per requirements given.

And get back ***eprojects@aptech.ac.in*** as the assigned schedule.

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Problem Definition	<b>SWD/Form</b> No.01/PD/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 3.0	<b>Page No:</b> 1 of 24

# Problem Definition

## 1. Problem Definition

Dental or oral health is concerned with your teeth, gums and mouth. The goal is to prevent complications such as tooth decay (cavities) and gum disease and to maintain the overall health of your mouth.

A healthy mouth, free of infections, injuries and other problems with teeth and gums, is important in maintaining your overall health.

Although a different set of medical professionals focuses on dental health, they are still part of your regular health care team.

Disease and other conditions can affect your dental health and dental problems can affect other parts of your body. Failing to properly care for your oral health may lead to other health problems.

You can help prevent or minimize many oral health problems by regular preventive steps (brushing, flossing and so on) and regular visits to dental health professionals.

Currently, as science develops, people also pay more attention to their own health. The issue of health care for teeth, gums and mouth is also of greater interest to people.

Hence to increase the awareness and provide all information about dental care, we are looking for developing a website “Belleville Dental” based on the requirements mentioned below.

You are supposed to create a Single-Page-Application and responsive Website for them with the below mentioned requirement specifications.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Problem Definition	<b>SWD/Form</b> No.01/PD/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 3.0	<b>Page No:</b> 2 of 24

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

## 2. Problem Identification and Site Layout

1.1 The Top of the Page should be presented with a suitable logo and related images.

1.2 The site must contain the links to navigate through various options. Link titles mentioned below.

- Professional education: This mainly includes the education assistance for students and practitioners. This can have further tabs/filters like finding related courses, help documents, faculty resources, student resources, case studies etc.
- Patient education: This should include general and necessary information for the patients suffering from any of the oral/dental issues.
- Research: This should include the latest research in the field. Necessary documents, videos etc. (media library) is expected here.
- Products: As the name indicates it should include all the related products. Here filter should be available based on various types of products as tooth pastes , brushes, special products for kids, electrical accessories etc.

1.3 User should be allowed to enter rating for the products displayed in the website.

1.4 Site map, Gallery, about us, Queries link, Contact us link must be added.

1.5 About Us and Contact Us: This menu option should display Email id, address, and contact number of the organization who is developing the system.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		



<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Problem Definition	<b>SWD/Form</b> No.01/PD/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 3.0	<b>Page No:</b> 3 of 24

1.6 Over and above this, the portal should implement the following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- The menu options should change color on hover and also after clicking.
- Fade in and fade out options can be used for the menus.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form No.02/CRS/Ver1.0</b>
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No: 4 of 24</b>

## Customer Requirements Specifications

### User:

### Input:

1. Filter information
2. Enter search information
3. Ticking product rating reviews
4. Tap Call Administrator Contact
5. Send feedback to administrators

### Process:

1. Filter information
2. Search for professional documents
3. Find research information
4. Search for disease-related content
5. Search for products
6. Link to call
7. Check your comments

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form</b> No.02/CRS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No: 5 of 24</b>

## Output:

1. Show search results
2. Show filter results
3. Show selected product success/failure ratings
4. Notification of success/failure comment

## Webmaster:

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form No.02/CRS/Ver1.0</b>
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No: 6 of 24</b>

### **Input:**

1. Add/edit/delete related courses
2. Add/edit/delete help documentation
3. Add/edit/delete visible products
4. Add/edit/delete research papers
5. Reply to user comments

### **Process:**

1. Add/edit/delete related courses
2. Add/edit/delete help documentation
3. Add/edit/delete visible products
4. Add/edit/delete research papers
5. Reply to user comments

### **Output:**

1. Notification of replying to user comments successfully/failed
2. Notification of adding/editing/deleting related course success/failure
3. Notification of adding/editing/deleting helper material successfully/failed
4. Notification of adding/repairing/deleting products showing success/failure

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form</b> No.02/CRS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 7 of 24

5. Notification of adding/editing/deleting successful/failed research materials

## Hardware / software requirement:

### Hardware

- Intel Core i3/i5 Processor or higher
- 8 GB RAM or above
- Color SVGA
- 500 GB Hard Disk space
- Mouse
- Keyboard

### Software

Technologies to be used:

- Frontend: HTML5, CSS, Bootstrap, JavaScript, jQuery, AngularJS, XML
- Data Store: JSON files or TXT files

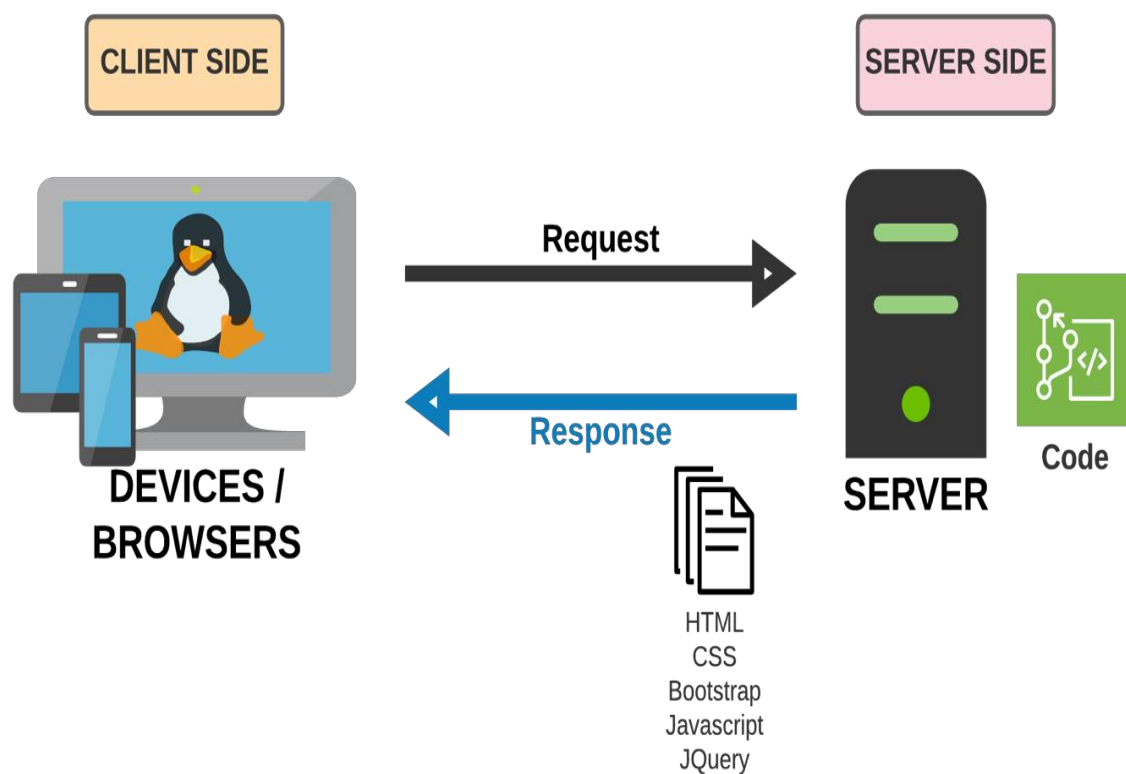
### Other Requirements:

- Operating Portal: Windows
- Browsers: Edge, Chrome, Mozilla Firefox, Safari

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Architecture and design of the project	<b>SWD/Form No.03/ARD/Ver1.0</b>
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No: 8 of 24</b>

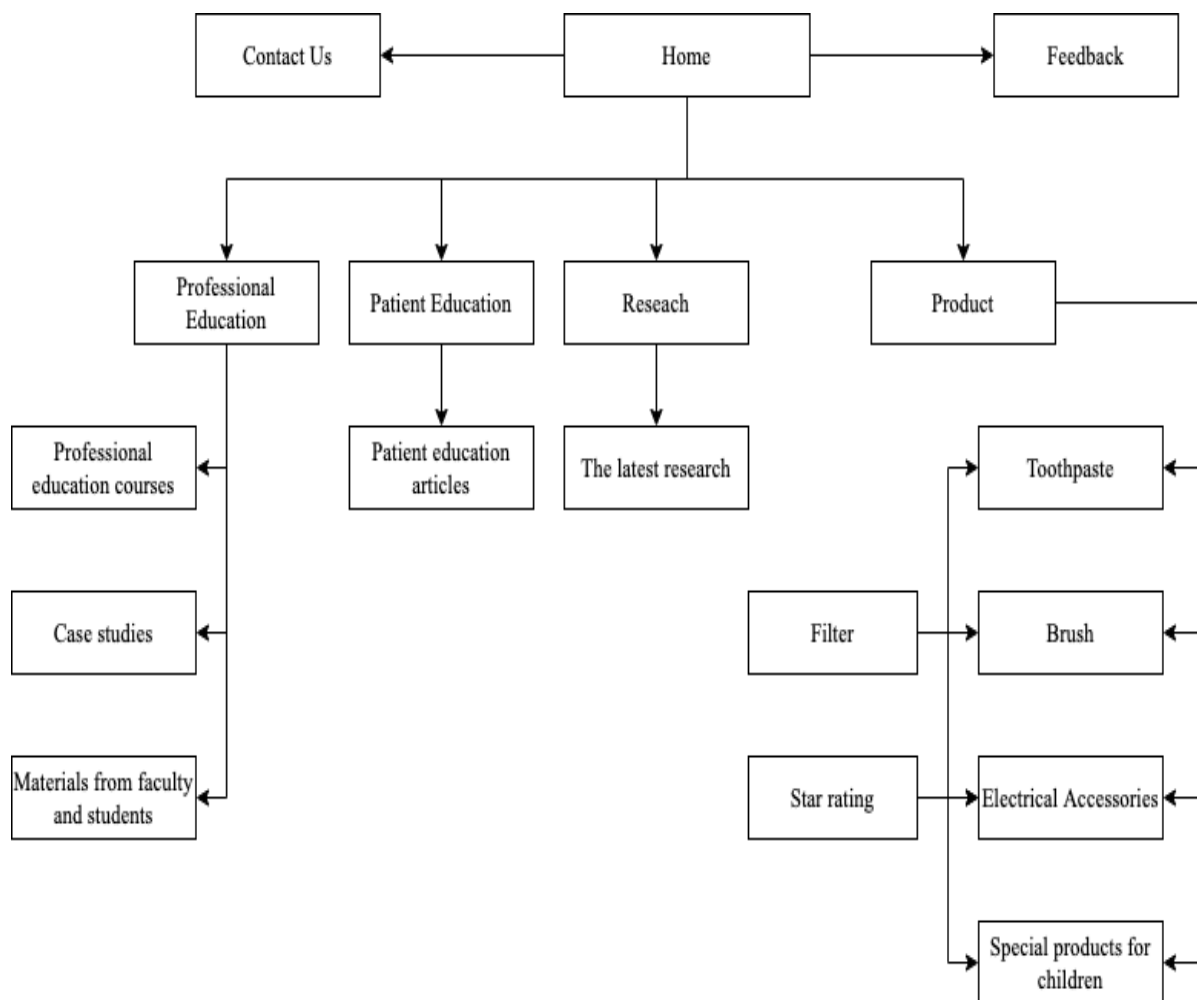
## Architecture and design of the project



	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> SiteMap	<b>SWD/Form No.04/SM/Ver1.0</b>
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No: 9 of 24</b>

# SiteMap



	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Screen shots	<b>SWD/Form</b> No.05/SS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 10 of 23

## Screen shots

### 1. Home page

Logo	Home Page		Contact Us	Feedback
Professional Education	Patient Education	Research	Product	
Content				
Map		Email ID Contact Number Address		

**Description** : The homepage contains topics, about, location, contact information, address, email, contact and contributions.

**From** : This is the main page of the website.

**To** : This page links to all the topics of the web site.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No: 04</b>	<b>Teacher: Lê Thanh Nhân</b>
<b>Signature</b>		
<b>Date</b>		



<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Screen shots	<b>SWD/Form</b> No.05/SS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 11 of 23

## 2. Professional Education

Logo		Home Page		Contact Us	Feedback
Professional Education	▽	Patient Education	Research	Product	
Professional Education Courses					
Case Studies					
Document from Faculty and Student					
Image		Image		Image	
Professional Education Courses		Case Studies		Document from Faculty and Student	

**Description** : This page contains information related to courses, case studies, materials from faculty and students.

**From** : Homepage.

**To** : Professional Education.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Screen shots	<b>SWD/Form</b> No.05/SS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 12 of 23

### 3. Patient Education

Logo	Home Page	Contact Us	Feedback
Professional Education	Patient Education	Research	Product
Content			

**Description** : This page contains content related to patient medical problems.

**From** : Homepage.

**To** : Patient Education.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Screen shots	<b>SWD/Form</b> No.05/SS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 13 of 23

#### 4. Research

Logo	Home Page	Contact Us	Feedback
Professional Education	Patient Education	Research	Product
Content			

**Description** : This page contains the latest information on the research.

**From** : Homepage.

**To** : Research.

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Screen shots	<b>SWD/Form</b> No.05/SS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 14 of 23

## 5. Products

Logo	Home Page		Contact Us	Feedback
Professional Education	Patient Education	Research	Product	
<div>Filter</div> <div> <input type="radio"/> Toothpaste         <input type="radio"/> Brush         <input type="radio"/> Electrical Accessories         <input type="radio"/> Special Product for Children       </div>	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>
	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>	<div>Product</div> <div>Star Rating</div>

**Description :** This page introduces dental products such as toothbrushes, toothpaste, electrical accessories, products for children.

**From :** Homepage

**To :** Products

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Testing document	<b>SWD/Form</b> No.06/TD/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 15 of 24

## Testing document

Sr.No	Features Tested	Remarks
1	Is there an error in checking the location of the headquarters on the map ?	
2	Check the function to rate the products with errors	
3	Check the contact item for errors	
4	Check if donations are working properly	
5	Check the product filter function is correct	
6	Check links for errors	
7	Check if the search function can find the document	
8		
9		
10		
11		
12		
13		
14		
15		

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Final checklist	<b>SWD/Form</b> No.07/FC/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 16 of 23

## Final checklist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> Belleville Dental	<b>Document Name:</b> Task Sheet	<b>SWD/Form</b> No.08/TS/Ver1.0
<b>Effective Date:</b> 14-07-2022	<b>Version</b> 1.0	<b>Page No:</b> 17 of 23

No	Member	Contents	Page Name	Activity Plan	Date of Preparation of Activity Plan		
				Planed Start Date	Actual Start Date	Actual Days	Status
	Nguyễn Thanh Vũ	Navigation (contact us, feedback, logo) Footer (map, address, email,...)	Index.html	14-07-2022	14-07-2022	6	OK
1		Carousel effect	Hompage.html	20-07-2022	20-07-2022	1	OK
2		Patient education	Patient.html	21-07-2022	N/A	2	Not OK
		Scroll Top, Site Map,	Index.html				
3	Nguyễn Mạnh Thắng	Professional( Faculty Resources, Particular Research, Related Courses)	Professional.html	14-07-2022	15-07-2022	6	OK
4		Product ( Rating star, filter)	Product.html	20-07-2022	21-07-2022	4	OK
5	Lê Minh Luân	Research	Research.html	24-07-2022	N/A	3	N/A

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b> 04	<b>Teacher:</b> Lê Thanh Nhân
<b>Signature</b>		
<b>Date</b>		