Design and Implementation of fanOfan

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Synopsis

The business-to-consumer aspect of electronic commerce (e-commerce) is the most visible business use of the World Wide Web. The primary goal of fanOfan site is to sell many kinds of fans online.

This project deals with making an e-commerce website for kind of fans (an online store). It provides the user with a catalog of different kinds (for homes, hotels) and any places available for purchase in the store.

In order to establish this website, a number of Technologies must be studied and understood. These include implementation technologies such as ASP.NET, programming language (such as HTML, CSS, JQuery and JAVASCRIPT).

This is a project with the objective to establish fanOfan website where a consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

This document will discuss the techniques that used to do this website and everything about it.

ACKNOWLEDGMENTS

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Introduction

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

The objective of this project is to make an e-commerce store for many Kind of fans where the products

 (for homes, hotels) and any places. These products can be bought from the comfort of home through the Internet.

fanOfan website is an online virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items are collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. The customer will be asked to fill billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

In order to design a website, the **process model** must be designed. process model deals with how the data is processed. The process model is used to design the queries that will access and perform operations on this website.

Process Model

A Process Model tells us about how the data is processed and how the data flows gather the required information. This model consists of the Functional Decomposition Diagram and Data Flow Diagram.

Functional Decomposition Diagram

A decomposition diagram shows a top-down functional decomposition of a system and exposes the system's structure. The objective of the Functional Decomposition is to break down a system step by step, beginning with the main function of a system and continuing with the interim levels down to the level of elementary functions. The diagram is the starting point for more detailed process diagrams, such as data flow diagrams (DFD). Figure 1 shows the Functional Decomposition Diagram for this project.

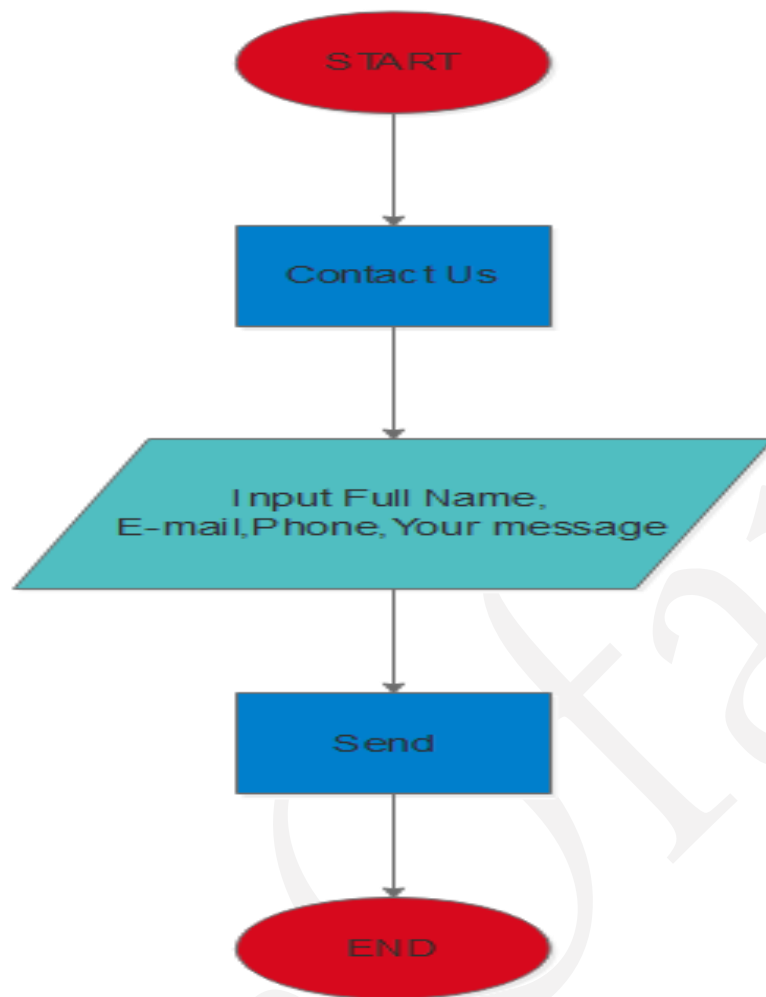Figure 1 Functional Decomposition Diagram

Figure 2 Contact Us Process Flow Chart

Data Flow Diagram (DFD)

Data Flow Diagrams show the flow of data from external entities into the system, and from one process to another within the system. There are four symbols for drawing a DFD:

Rectangles representing external entities, which are sources or destinations of data.
Ellipses representing processes, which take data as input, validate and process it and output it.
Arrows representing the data flows, which can either, be electronic data or physical items.

Open-ended rectangles or a Disk symbol representing data stores, including electronic stores such as XML files and physical stores such as filing cabinets or stacks of paper.

Figures are the Data Flow Diagrams for the current system. The Context Level DFD provides a conceptual view of the process and its surrounding input, output and data stores.
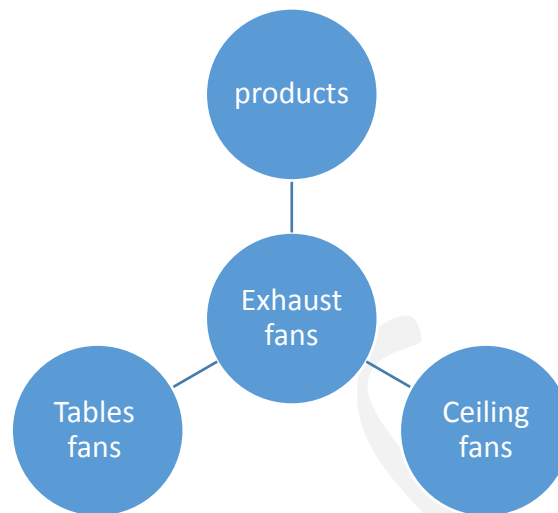
AUTHENTICATED USER-PURCHASE CONTEXT DFD

Figure 3 DFD Diagram

User Interface Design

Before implementing the actual design of the project, a few user interface designs were constructed to visualize the user interaction with the system as they browse for products, view store locator and purchase Table fan , Exhaust fans and Ceiling fans. The user interface design will closely follow our Functional Decomposition.
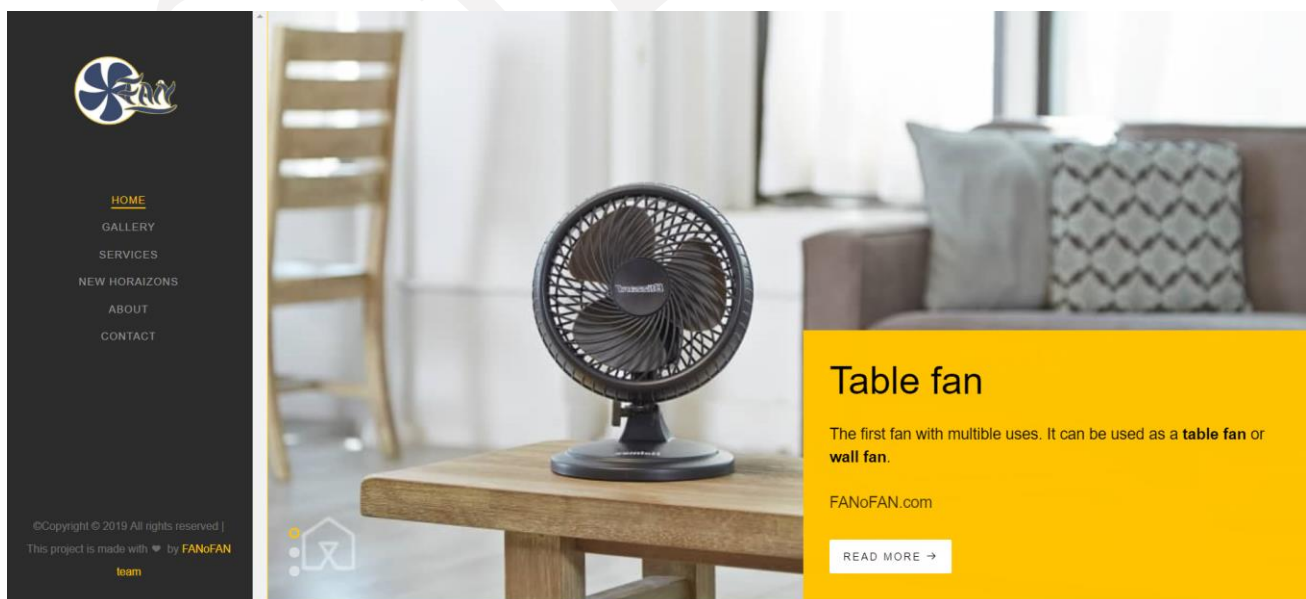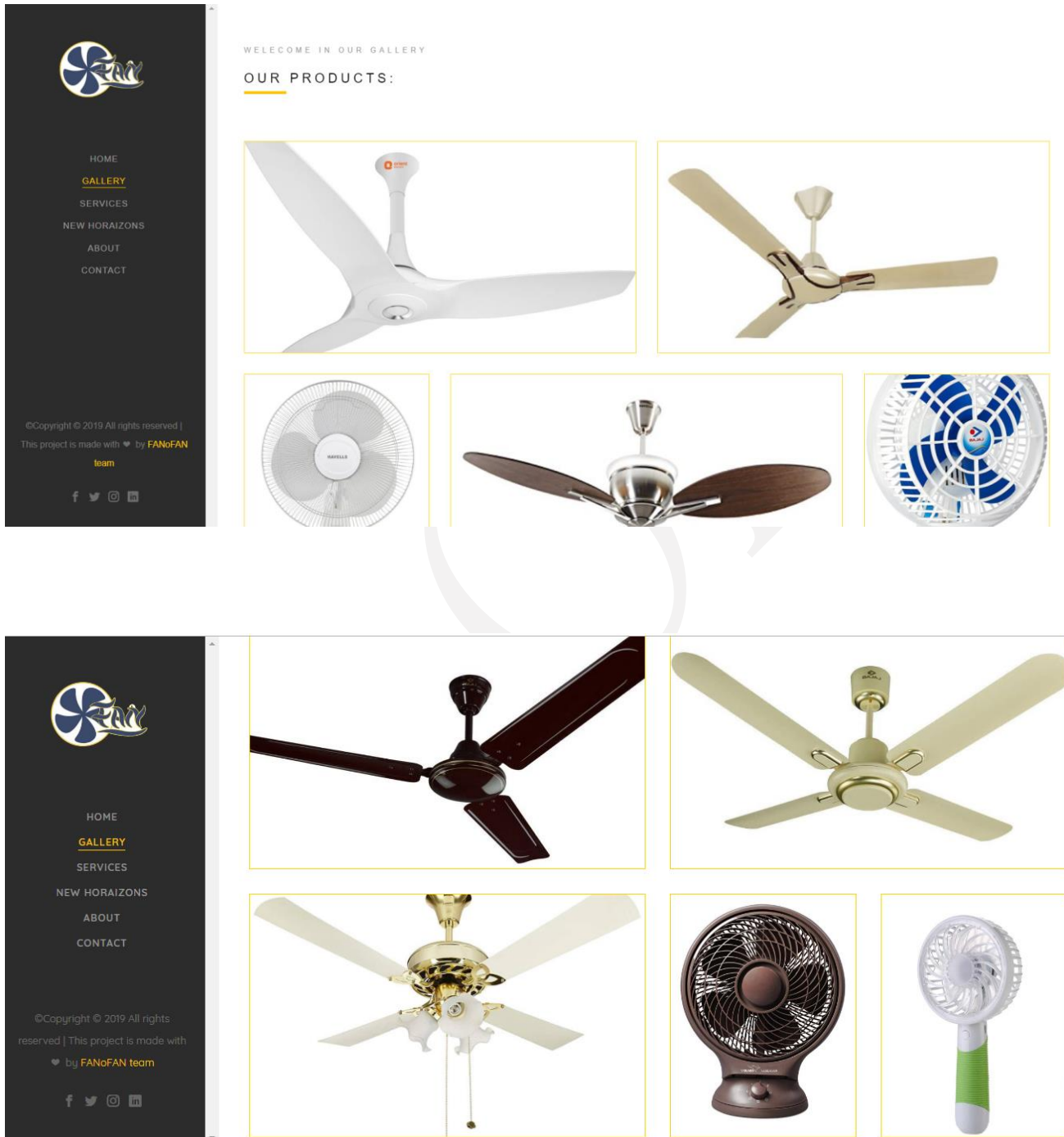

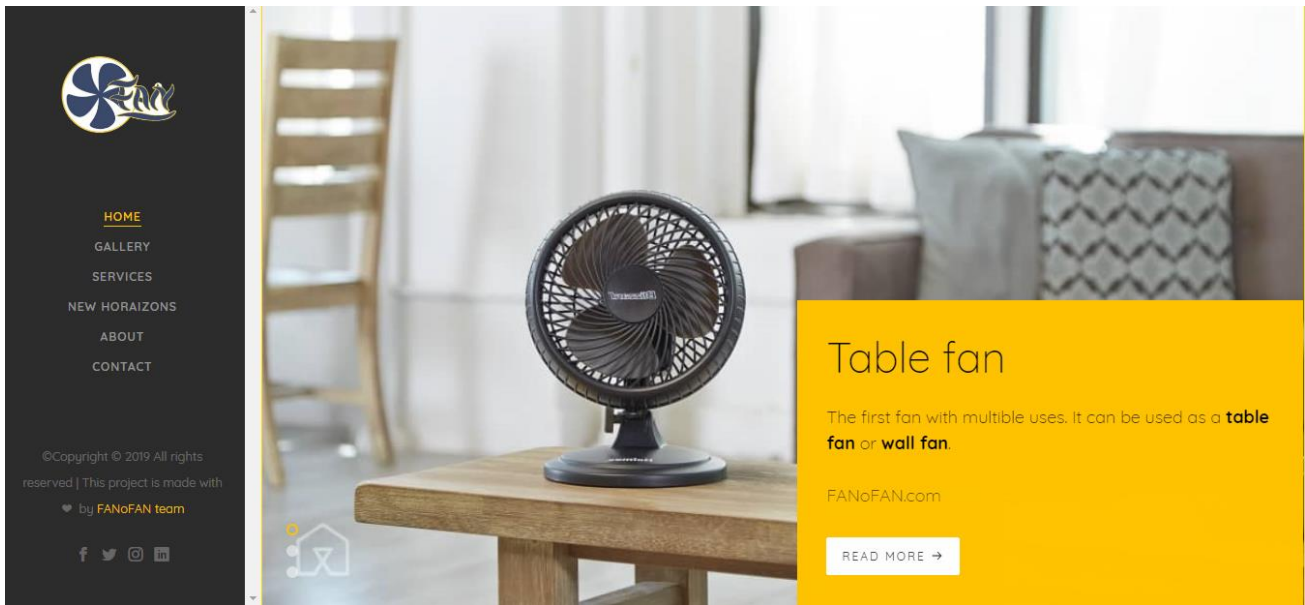
Figure 4 Home page.

Figure 5 Gallery Page

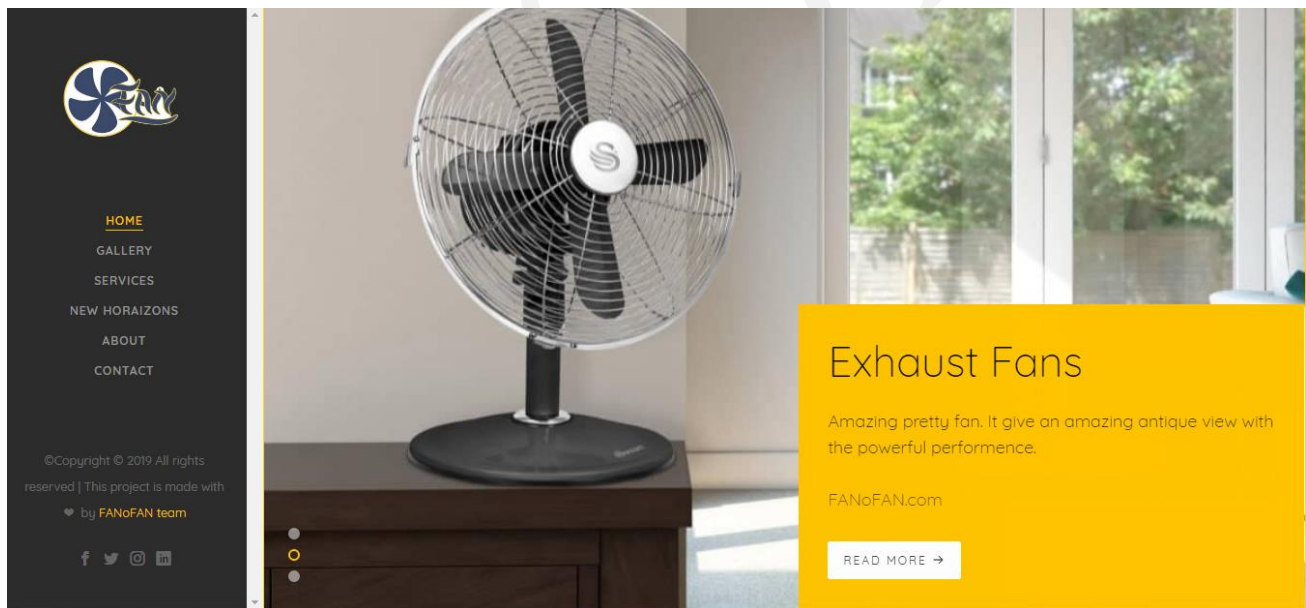**Figure 8 Table fan Products Page**
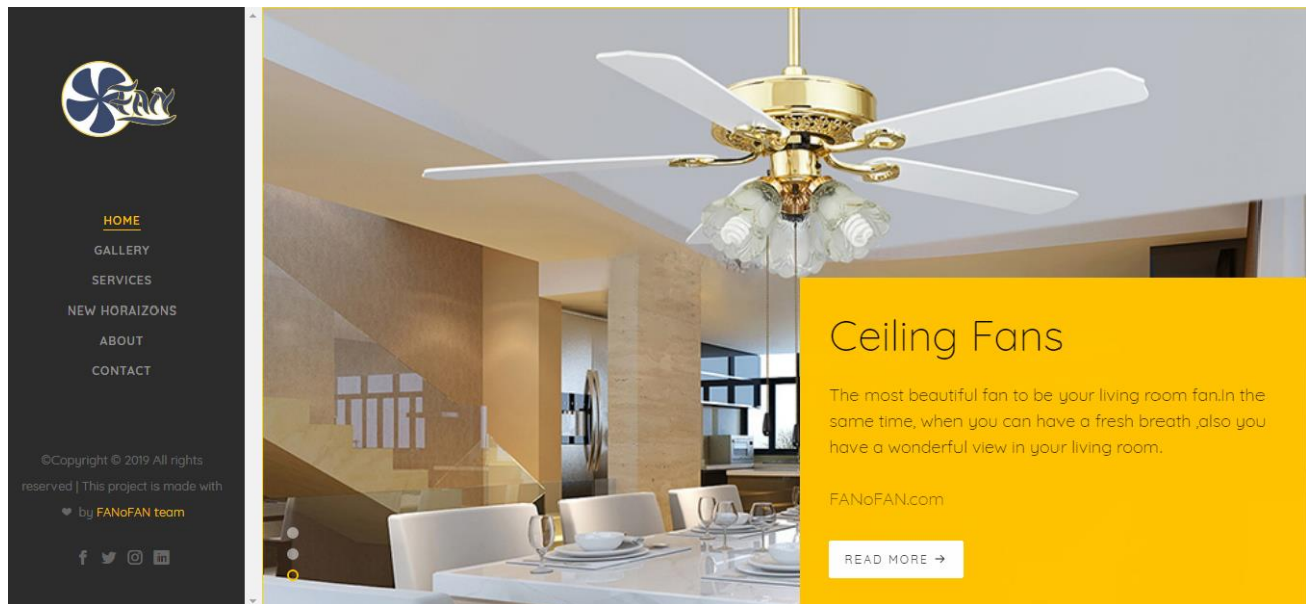

Figure 9 Exhaust fans Products Page

Figure 10 Ceiling fans Products Page
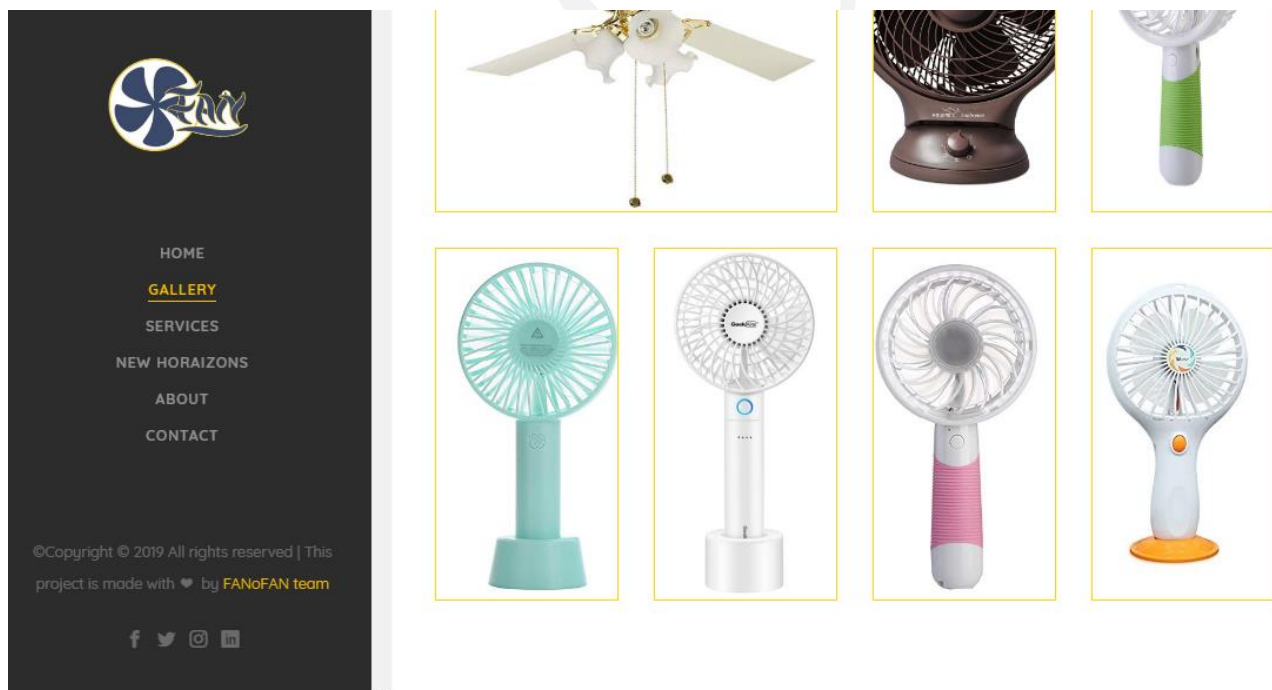
Figure 11 Small fans Products Page

The Shopping Application

The objective of this application is to provide the user an online website where they can buy table fans, Exhaust fans and Ceiling fans from the comfort of their home. fanOfan website is used for this purpose. The user can select the desired product, place them in the cart and purchase them using a Credit Card.

Frist Fashion Website consists of the following web pages:

1. Home

2. Gallery

3. Services

4. New horizons

5.About

6.Contact
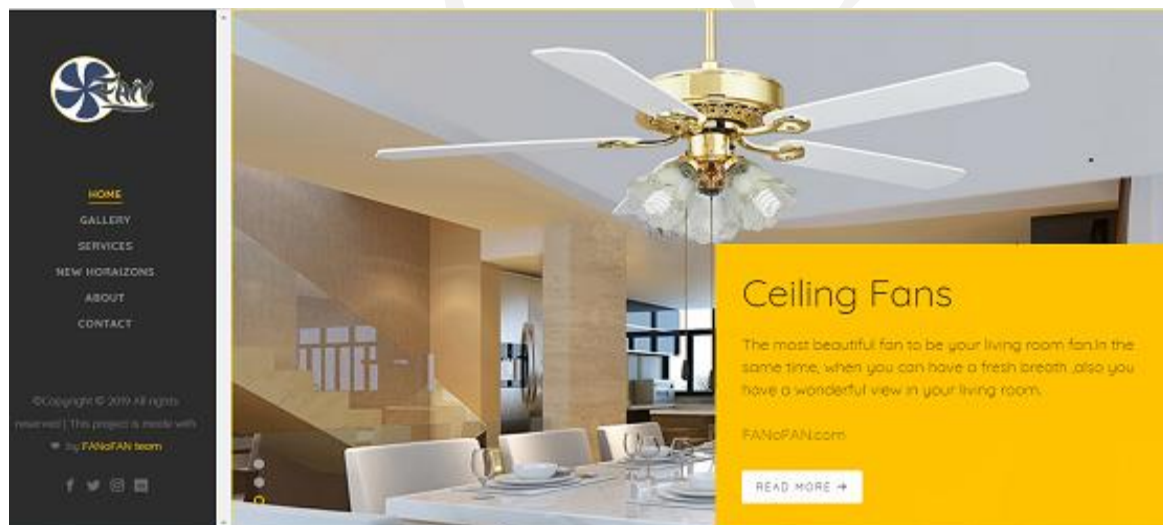
Figure 12 Home Page

Below figures, show some screenshots taken from running the application. All the functionalities are explained accordingly.

When the user types the web address in the browser, the Home page of the site is displayed, as shown in Figure.

Browse the products

When move to Gallery page, you will find various products. There is products category list that has different types such as table fans, Ceiling fans, Exhaust fans and Small fans.

Figure 13 Display Table fans present in the store

Figure 14 Display Exhaust fans present in the store

Example of Ceiling fans present in the store

Ceiling fans product exists in the store consist of a photo, description, details, and price for each product. Figure 14 and 15 show a Ceiling fans example.

Figure 15 Ceiling fans Example

Example of Table fans present in the store

Table fans product exists in the store consist of a photo, description, details, and price for each product. Figure 16 and 17 show the Table fan example with details .
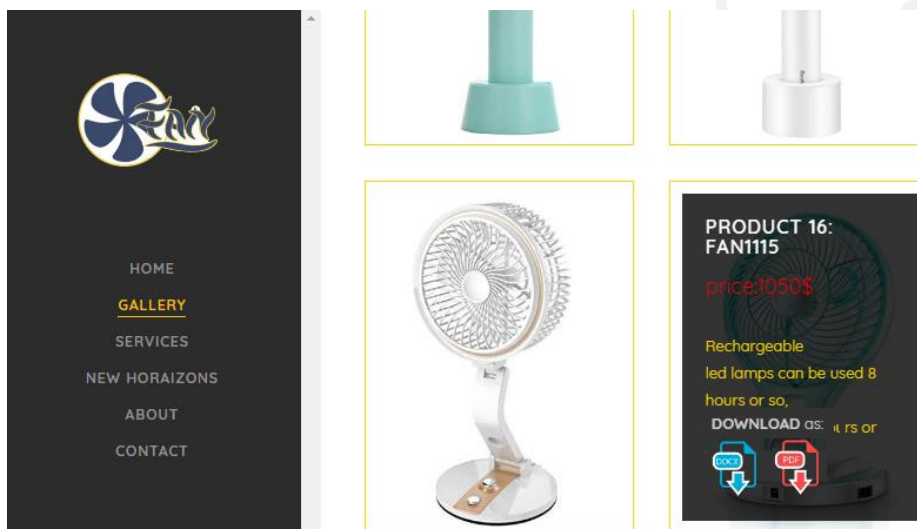
Figure 17*Table fan* **Example**

Example of Exhaust fans present in the store

The Exhaust fans product exists in the store consist of a photo, description, details, and price for each product. Figure 18 and 19 show Exhaust fans example.

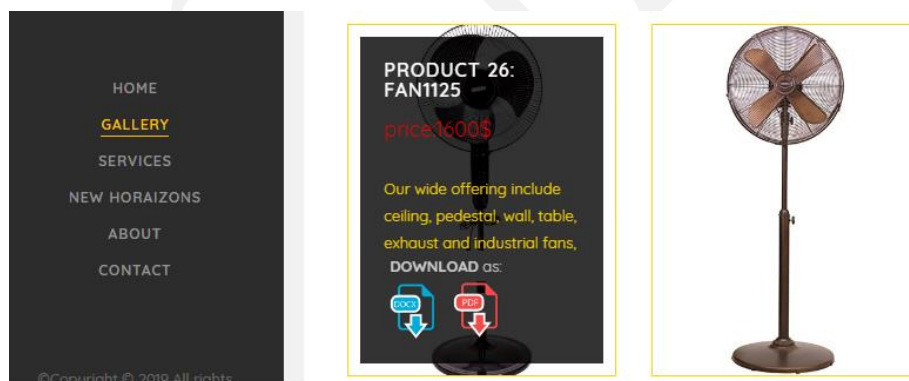**Figure 18 Exhaust fans Example**

Example of Ceiling fans present in the store

Ceiling fans product exists in the store consist of a photo, description, details, and price for each product. Figure 20 and 21 show Ceiling fans example.

Figure 20 Ceiling fans Example

Contact Us

Frist Fashion site provide a page for the costumers to contact with administrator of the website to answer any question or if there something wrong in the site. Figure 21 and show Contact us page .

Figure 21 Contact us page.

About Us
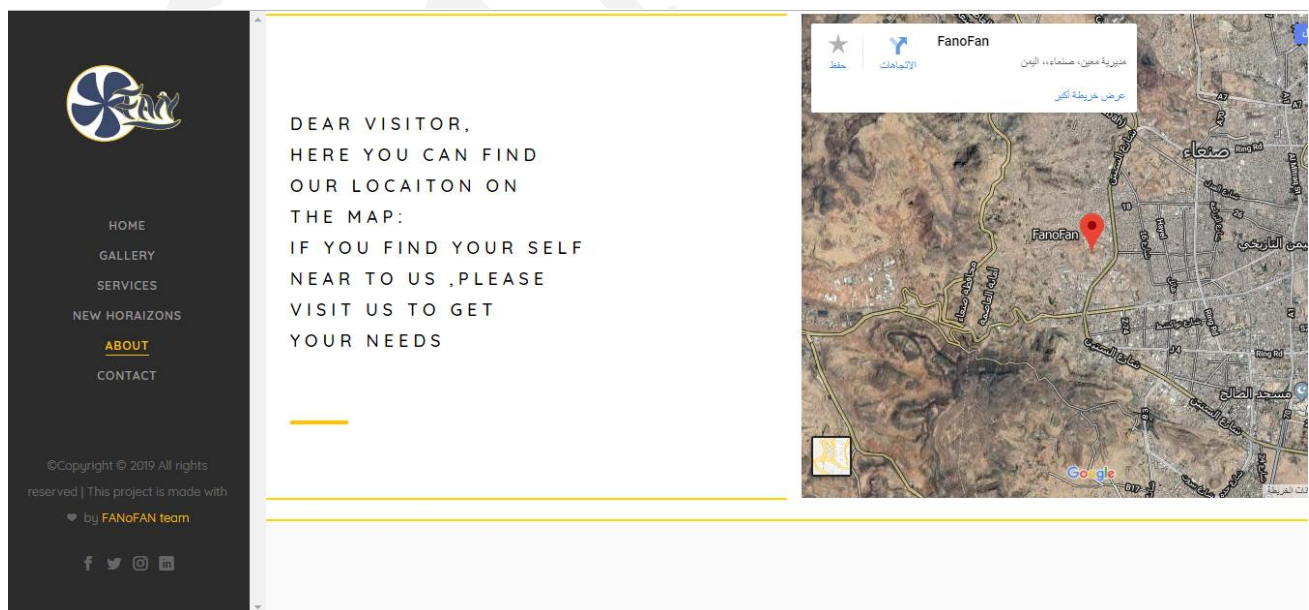
Figure 22 Our Location page.

User Guide

The following is a user guide through the necessary steps for the pages on the site. The purpose to help costumers browse from the store easily.

Home Page

Home Page Header
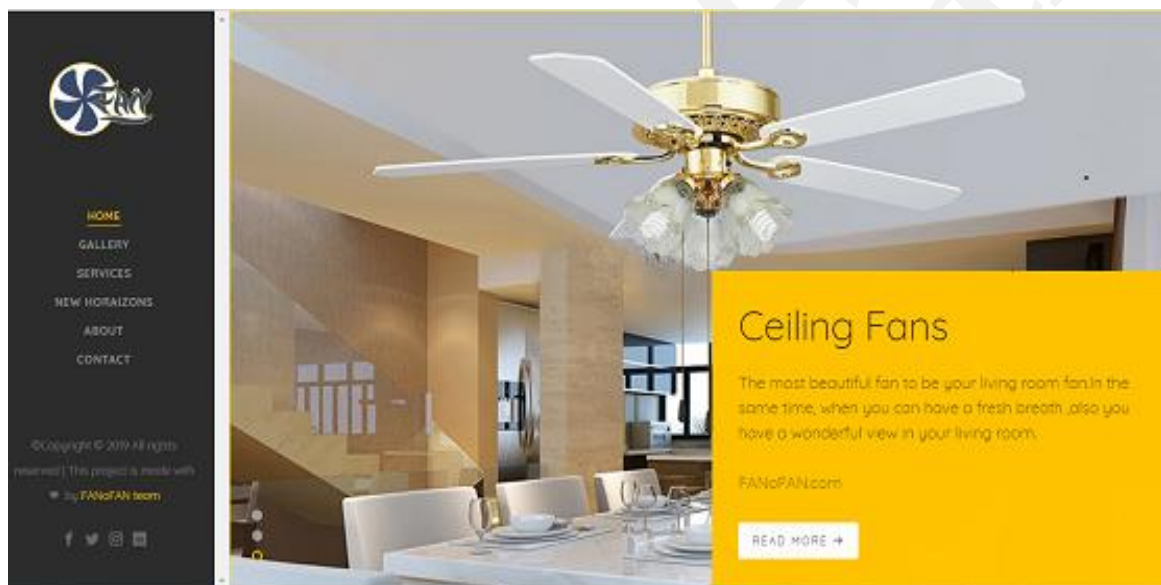
When the user types the URL of fanOfan store, this page will appear ceiling fans

Click on (Read more) to see menu of products from the other page or **move down** to see them.

Home Page Content
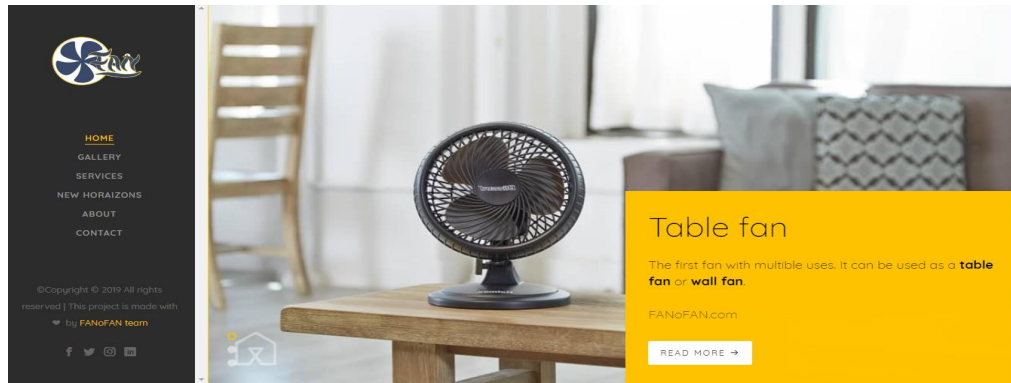
Figure 25 Home page 1.

Select "Read more " on Table fan photo to see The Products on Gallery page.
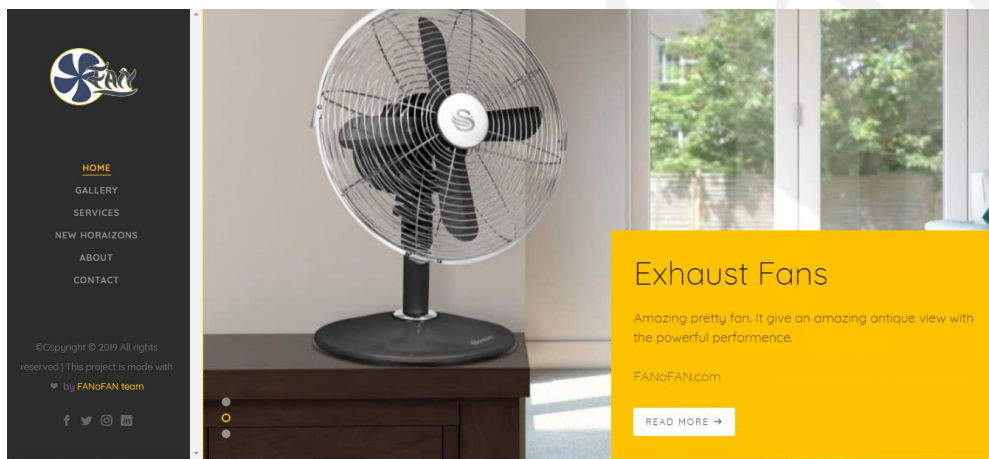
Figure 25 Home page 2.

Select "Read more " on Exhaust fans photo to see The Products on Gallery page.
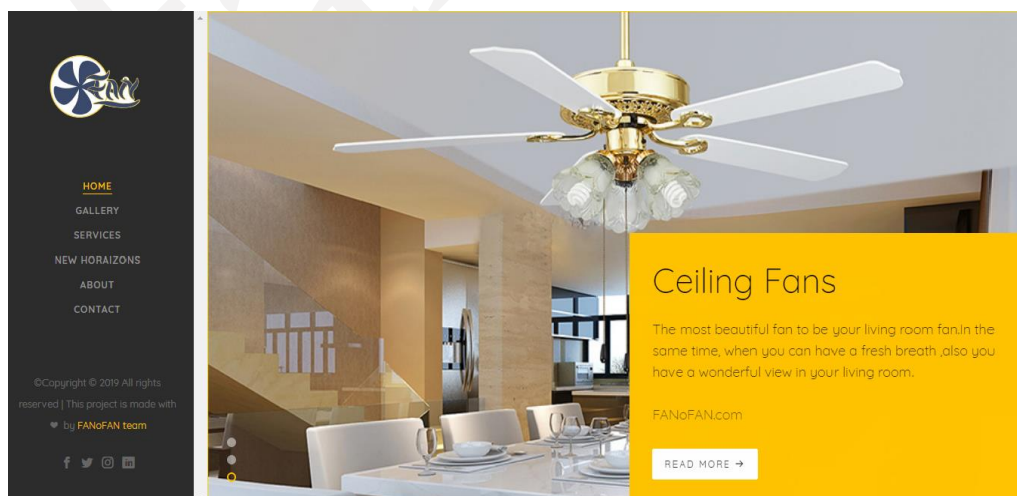
Figure 25 Home page 3.

Select "Read more " on Ceiling fans photo to see The Products on Gallery page.

CONTACT US Page

Figure 26 Contact Us Page.

Your Full Name .

Enter complete name .

E-mail

Enter a valid e-mail address.

Your Subjects

Enter your subjects or your requests.

Your phone

Enter your Phone number if you would like.

Message

Enter your messages that you want tell us about it.

Click "SEND MESSAGE" to send your message after you have filled out the field.

Source code with comments

In this part we will show you the most common and important code that we use it in our project. It is a Side inside it navigation.

```html
40    <a href="#" class="js-fan-nav-toggle fan-nav-toggle"><i></i></a>
41    <aside id="fan-aside" role="complementary" class="border js-fullheight">
42        <h1 id="fan-logo"><a href="index.html"><img src="images/main-logo.png" style="height: 100px;"></a></h1>
43        <nav id="fan-main-menu" role="navigation">
44            <ul>
45                <li class="fan-active"><a href="index.html">Home</a></li>
46                <li><a href="gallery.html">Gallery</a></li>
47                <li><a href="services.html">Services</a></li>
48                <li><a href="newhoraizons.html">New horaizons</a></li>
49                <li><a href="about.html">About</a></li>
50                <li><a href="contact.html">Contact</a></li>
51            </ul>
52        </nav>
53
54        <section class="fan-footer">
55            <p>
56                <small>
57                    &copy;Copyright &copy;
58                    <script>
59                        document.write(new Date().getFullYear());
60                    </script>
61                    All rights reserved | This project is made with
62                    <i class="icon-heart" aria-hidden="true">
63                    </i> by
64                    <a target="_blank">FANoFAN team</a>
65                </small>
66            </p>
67            <ul>
68                <li><a href="#"><i class="icon-facebook2"></i></a></li>
69                <li><a href="#"><i class="icon-twitter2"></i></a></li>
70                <li><a href="#"><i class="icon-instagram"></i></a></li>
71                <li><a href="#"><i class="icon-linkedin2"></i></a></li>
72            </ul>
73        </section>
74
75    </aside>
76
```

Figure 27 Source Code.

This aside navigation code that contain a div and, this div has six parts are (Home, Gallery, Services, New horaizons, Contact us and About us). We use <ul> and <li> to make navigation.
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Developers Guide

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Conclusion

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. Hence, we have designed this project for **fanOfan** to provide the user with easy navigation.

In this project, the user is provided with a website that used to buy Many kind of fans, Like Table fans, Exhaust fans and Ceiling fans online. In addition, every product provided with its complete details and its price. One more thing, there is a **DOCX and PDF** file to download and view it later.