Gyalpozhing College of Information Technology
Royal University of Bhutan

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GYALPOZHING
COLLEGE OF INFORMATION TECHNOLOGY

Front End Development I
CSC102

CA3 Project Report

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1. Aim and Objectives

Write the actual aim and objectives of your project . The objective should actually specify in simple words what the project team intends to achieve (something concrete and measurable/ deliverable).

- The aim of our project is trying create the front-end version of an E-Commerce website where we want to make the design as realistic, responsive and interactive as the real one does.

2. Introduction

2.1 Project Background

Briefly explain the background of your project.

- We based our project on the idea of Amazon, an online E-commerce store which sells varieties of goods. Although our focus has been more into clothing this time as weren't able to create as vast as the real one.

2.2 Literature review

Write a literature review related to your project.

- Commerce started as a natural existence once people demanded goods throughout the world. The need of buying things is the basic of survival. Ever since the internet came, the commerce over the internet also started. People started creating E-commerce to extend their scales way up higher than what normally they could afford to advertise to. E-commerce is now the fastest growing sales channel which provides people with a varieties of products. It is very crucial method for any business organization to expand their sales.

2.3 Current State of the Art

Explain briefly the current state of the art.

-E-commerce websites now have better security, bonuses and refund systems. The presence of an omni-channel for the specific website provides users with more interactions with the people of the organization.

3. Innovative Designs

List and explain the key innovative design that you have implemented in your project with codes.

For example, animations, image-sliders, etc.. and you need to explain how you created or used them.

1. *The image slider*

   We created a **div** tag with class name "image-slide" under the body section. Inside image-slider div tag we created two more div tags. In the div tag with the class name "images" we embedded all the images. We added 4 radio buttons for the 4 pictures we have in the slide to let the user navigate between the multiple slides available. In the div tag with class name "dots" we created labels for the radio button id's. The <Radio> button is used to define the small circles, which are highlighted when selected.

```html
<div class="image-slide">
    <div class="images">
        <input type="radio" name="slide" id="img1">
        <input type="radio" name="slide" id="img2">
        <input type="radio" name="slide" id="img3">
        <input type="radio" name="slide" id="img4">
        <img src="images/pic1.png" class="pic1" alt="img1">
        <img src="images/pic4.png" class="pic2" alt="img2">
        <img src="images/pic3.png" class="pic3" alt="img3">
        <img src="images/pic2.png" class="pic4" alt="img4">
    </div>
    <div class="dots">
        <label for="img1"></label>
        <label for="img2"></label>
        <label for="img3"></label>
        <label for="img4"></label>
    </div>
</div>
```

   We used CSS for designing the components.

```css
.image-slide{
    position: relative;
    grid-column-start: 1;
    grid-column-end: 5;
    width: 100%;
    overflow: hidden;
}
.images{
    display: flex;
    width: 50%;
}
.images img{
    height: 300px;
    width: 100%;
    transition: all 0.15s ease;
    margin-top: 50px;
}
.images input{
    display: none;
}
.dots{
    display: flex;
    margin: 5px;
    justify-content: center;
}
```

We set display: none; so that all of our images would be visible at the same time

```css
.dots{
    display: flex;
    margin: 5px;
    justify-content: center;
}
.dots label{
    height: 20px;
    width: 20px;
    border-radius: 50%;
    border: solid ▢rgb(111, 111, 111) 2px;
    cursor: pointer;
    transition: all 0.15s ease;
    margin: 5px;
}
.dots label:hover{
    background-color: ▢rgb(255, 207, 215);
}
#img1:checked ~ .pic1 {
    margin-left: 0;
}
#img2:checked ~ .pic2 {
    margin-left: -100%;
}
#img3:checked ~ .pic3 {
    margin-left: -200%;
}
#img4:checked ~ .pic4 {
    margin-left: -300%;
}
```

The checked attribute is used with reference to
<input type="radio">,
when the first radio button is clicked the image will not
shift as the margin is zero. When the second radio button
is clicked the second image will shift to the left margin by
100%. When the third radio button is clicked the
third image will shift to the left margin by 200%. When the
fourth radio button is clicked the image will shift to the left
margin by 300% as mentioned which results in
imageslider.

4. References

 List down the references using IEEE formats

[1] Amazon, Amazon Website, https://www.amazon.com/, Amazon © 2022

[2] Mangastore, Mangastore Website, https://mangastore.pl/ , Poland, Mangastore ©2022

[3] Dokodemo World, Dokodemo World Website, https://dokodemo.world/en/ , Japan, Dokodemo World © 2022