FULL STACK PROJECT
(2018-19)

BEAN BAG SHOP WEBSITE

Final Report

Institute of Engineering & Technology

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<u>Declaration</u>

I hereby declare that the work which is being presented in the Full Stack Project **"BEAN BAGS SHOP WEBSITE",** in partial fulfillment of the requirements for Mini project viva voce, is an authentic record of my own work carried under the supervision of **" Mr. Pankaj Kapoor Sir " ,** Asst. Professor**,** Department of Computer Engineering & Applications

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SYNOPSIS

Introduction to the Project:

We are implementing an e-commerce website featuring a variety of bean bags. A bean bag is a sealed bag containing dried beans, PVC pellets, expanded polystyrene, or expanded polypropylene. The bags are commonly used for throwing games, but have various other applications. Through this website we provide a range of bean bags to our customers. We try to bring all the services to our customers such as showing them a variety to select from and then provide them a cart to save their preferred items and finally have the platform to order them and keep the track of their order as well.

Modules To be Defined

1.Header: It will contain navigation bar of project. Navigation Bar will contain these components.

a)Home : It is the first page to be loaded on to the screen. It will contain a slider and some information.

b)Explore Our Range: It is the component in which we will provide the information of the variety of the bean bags we provide.

c)Featured Products : It is the component which will contain the most popular varieties of the bean bags offered by us.

d)Contact Us : It is the component which will contain the contact information of us . A customer can contact with us using a form .

e)Track Your Order: It is the component in which user can keep track of his ordered items.

2. Content Area : It will contain the main display area . Every content of the site will display in this content area.

3. Footer : It will contain the lower section of the site.

Technology Used:

Basically we are working on Full Stack Technology which will provide a complete UI for the user.

We have used:

 - HTML5

 - CSS3

 - JavaScript

 -Bootstrap

Audience Target:

No one enjoys sitting in hard bleachers or cheap chairs. But everyone will enjoy relaxing in your custom made bean bags. Also, consider that outdoor events are already less comfortable than indoor ones automatically. They're usually too hot or too bright or too windy. Though you can't control the weather, you can at least give your audience one less thing to complain about. A comfortable bean bag chair will definitely help your guest's situation. Then they're more likely to pay attention to your event and more likely to remember you.

<u>ACKNOWLEDGEMENT</u>

It is my pleasure to acknowledge the assistance of a number of people without whose help this project would not have been possible.

First and foremost, I would like to express our gratitude to **Mr. Pankaj Kapoor Sir,** my project guide, for providing invaluable Encouragement, guidance and assistance. I would like to thank the institute staff for the operation extended to us throughout the project. After doing this project I can confidently say that this experience has not only enriched me with technical knowledge but also has unparsed the maturity of thought and vision. The attributes required being a successful professional.

ABSTRACT

The recent past showed a greater interest in recommender techniques. Bean bags are becoming increasingly common in homes and offices as they are comfortable and add an element of panache to the rooms. These are one of most popular ergonomic furniture in the market and rightly so. Relax on one after a long day and enjoy a cup of coffee while the bean bag takes the shape of your body to offer unparalleled comfort. This project will help customers to suggest the best Bean Bag among all the bean bags on the web. On multiple demands of customer that is, a customer will select a bean bags for a particular need based on the recommendations provided by the previous customers who had experience with our services. Therefore, according to the personalized recommendations, he/she will choose the best bean bag that is on the web. The website will help the users as it is cost-effective, and provides 24x7 availability.

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FEASIBILITY STUDY

Preliminary investigation examines project feasibility , the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All systems are feasible if they are given unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

Technical Feasibility
Operation Feasibility
Economical Feasibility

• ECONOMIC FEASIBILITY

Economic analysis is most frequently used for evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefits and savings that are expected from a system and compare them with costs, decisions is made to design and implement the system. This part of feasibility study gives the top management the economic justification for the new system. This is an important input to the management, because very often the top management does not like to get confounded by the various technicalities that bound to be associated with a project of this kind. A simple economic analysis that gives the actual comparison of costs and benefits is much more meaningful in such cases. In the system, the organization is most satisfied by economic feasibility. Because, if the organization implements this system, it need not require any additional hardware resources as well as it will be saving lot of time.

- ## TECHNICAL FEASIBILITY

The technical issue usually raised during the feasibility stage of the investigation includes the following:

Does the necessary technology exist to do what is suggested?
Do the proposed equipments have the technical capacity to hold the data required to use the new system? Will the proposed system provide adequate response to inquiries, regardless of the number or location of users? Can the system be upgraded if developed? Are there technical guarantees of accuracy, reliability, ease of access and data security?

- ## BEHAVIOURAL FEASIBILITY

People are inherently resistant to change and computer has been known to facilitate changes. An estimate should be made of how strong the user is likely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication, authorization and security of sensitive data of the organization.

Introduction

The Bean Bag Shop website is a static website. The main purpose of " Bean Bag Shop " website is to provide a convenient way for a customer to order bean for decoring their home to different places in India and outside India.. In this project, We offer you unparalleled choices in bean bags so that you do not have to look elsewhere to buy anything related to bean bags. We offer bean bags from over five brands. Some of them include TJAR, Style Homez, and Sattva, among the others. With over 250 options in bean bags and bean bag accessories, you will be spoilt for choice. The bean bags from Feel Good, like Teardrop Bean Bag in red color, are ideal for achieving bright, peppy, and comfortable feel to the room, as their bean bags come in colors to compliment these feelings. If you are looking for something that is elegant, designer bean bags from Reme would be a perfect fit. The brand offers bean bags in soft pastels and dark colors. The primary material option offered by this brand includes organic cotton. The bean bag chairs are ideal for those who are not too fond of getting up from a low bean bag. We offer bean bags in all sizes to suit both kids and adults alike. You can also get the bean bag cover without the beans. These are available in small, medium, large, and XXL bean bag sizes, depending on the availability.Moving on, let's talk some important factors and beneficiaries our clients will get with the help of a website.

- Attracts an eye of new clients
- Easy to find and shop bean bags
- Help to customized their own bean bags
- 24/7 interaction mode.
- Easy distribution

1.1 Purpose

The objective of the project is to make a Bean Bags website (only the front-end) to help the customers to get the best Bean Bags at an effective cost within a limited time frame. Our website provides a great deal in buying your bag, where you can customize your bean bag, give bulk order, get it delivered all over India without any delivery charges and even get honest customer reviews about the product. Here you can easily get all the information related to our product.

1.2 Scope

The bean bag is a most quirky piece of furniture. Apart from being super comfortable, it is also an easy accessory to decorate your home with. Bean bags are light, easy to move, affordable, portable, come in a variety of colors, shapes and sizes and are perfect for a modern apartment. Their contemporary style is fitting for someone with minimal tastes, and of course those who are perpetually on the go. They are fully customizable—from shape to fabric and therefore ideal for someone who has specific needs. Furthermore, it can be used to get comfort in your life.

1.3 Objective

1. Provide a high standard of services suitable for individuals seeking relaxing, comfortable and memorable experiences.
2. For extra room at parties
3. People can drag it to a spot they want, adjust it to their liking depending on whether they want to use it as a chair or as a recliner.
4. Evaluate current cultural, economic, and social issues affecting the furniture industry.

Features

- Predictive search
- Huge beautiful images
- Customer reviews
- Clear pricing without hidden fees
- Use evocative and interesting copy
- Simple customization
- Minimizes maintenance cost
- Always fashionable
- Minimizes order processing costs
- Comfort
- Super easy cleaning and care
- Portable and Light weight

Software Requirement Specification

2.1 Software Requirement Analysis

The technologies and tools used by me to develop this project are:

Basically we are working on Full Stack Technology which will provide a complete UI for the user.

Software Used:

  -Web Browser

 - HTML

 - CSS3

 -Bootstrap

 - Any Editor(Brackets)

 - JavaScript

Let us take an overview on all the tools used in our project-

HTML

HTML stands for Hyper Text Markup Language.

HTML is used to create web pages and web applications.

HTML is widely used language on the web.

We can create a static website by HTML only.

Technically, HTML is a Markup language rather than a programming language.

Hyper Text: Hyper Text simply means "Text within Text." A text has a link within it, is a hypertext. Whenever you click on a link which brings you to a new webpage, you have clicked on a hypertext. HyperText is a way to link two or more web pages (HTML documents) with each other.

Markup language: A markup language is a computer language that is used to apply layout and formatting conventions to a text document. Markup language makes text more interactive and dynamic. It can turn text into images, tables, links, etc.

Web Page: A web page is a document which is commonly written in HTML and translated by a web browser. A web page can be identified by entering an URL. A Web page can be of the static or dynamic type. **With the help of HTML only, we can create static web pages**.

Hence, HTML is a markup language which is used for creating attractive web pages with the help of styling, and which looks in a nice format on a web browser. An HTML document is made of many HTML tags and each HTML tag contains different content.

CSS3

CSS stands for Cascading Style Sheet.

CSS is used to design HTML tags.

CSS is a widely used language on the web.

HTML, CSS and JavaScript are used for web designing. It helps the web designers to apply style on HTML tags.

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML. It is generally used with HTML to change the style of web pages and user interfaces. It can also be used with any kind of XML documents including plain XML, SVG and XUL.

CSS is used along with HTML and JavaScript in most websites to create user interfaces for web applications and user interfaces for many mobile applications.

You can add new looks to your old HTML documents.

You can completely change the look of your website with only a few changes in CSS code.

1) Solves a big problem

Before CSS, tags like font, color, background style, element alignments, border and size had to be repeated on every web page. This was a very long process. For example: If you are developing a large website where fonts and color information are added on every single page, it will be become a long and expensive process. CSS was created to solve this problem. It was a W3C recommendation.

2) Saves a lot of time

CSS style definitions are saved in external CSS files so it is possible to change the entire website by changing just one file.

3) Provide more attributes

CSS provides more detailed attributes than plain HTML to define the look and feel of the website.

JavaScript

JavaScript is an object-based scripting language which is lightweight and cross-platform.

JavaScript is not a compiled language, but it is a translated language. The JavaScript Translator (embedded in the browser) is responsible for translating the JavaScript code for the web browser.

JavaScript is used to create interactive websites. It is mainly used for:

Client-side validation,

Dynamic drop-down menus,

Displaying date and time,

Displaying pop-up windows and dialog boxes (like an alert dialog box, confirm dialog box and prompt dialog box),

Displaying clocks etc.

It provides code re usability because single JavaScript file can be used in several html pages.

An external JavaScript file must be saved by .js extension. It is recommended to embed all JavaScript files into a single file. It increases the speed of the webpage.

2.2 Problem Definition

The purpose of website is established fact that internet users are increasing today. One of the main purpose of the website is to facilitate the offline customers online because they cannot spend their precious time in market trying to find out the best deals.

People who work on computers for long hours suffer from back aches, joint aches and headaches. **Bean bag** are the ideal furniture for them. **Bean bag** chairs also provide excellent relaxation which eliminates mental tension and depression which can cause headaches and since we are computer science engineers therefore we thought why not sell something that is relaxing and comfort providing at the same time.

<u>Software Design</u>

This is the designing portion of the project which defines software solutions to one or more sets of problem. One of the main component of software design is the software requirement analysis.

3.1 Data Flow Diagram

The **database schema** of a database system is its structure described in a formal language supported by the database management system (DBMS). The term "schema" refers to the organization of data as a blueprint of how the database is constructed (divided into database tables in the case of relational databases). The formal definition of a database schema is a set of formulas (sentences) called integrity constraints imposed on a database. These integrity constraints ensure compatibility between parts of the schema.

3.1.(a) Zero Level DFD

A context level DFD is the most basic form of DFD. It aims to show how the entire system works at a glance. There is only one process in the system and all the data flows either into or out of this process. Context level DFD's demonstrates the interactions between the process and external entities.
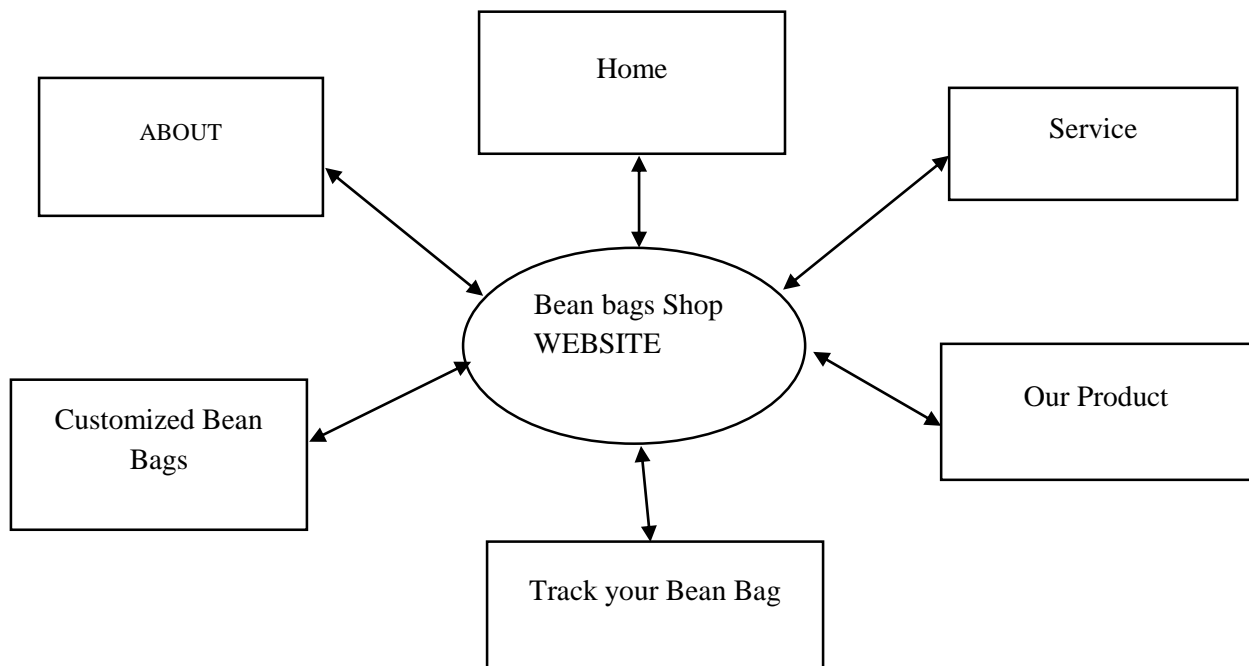
Fig.3.1.(a) Zero Level DFD

3.2 UML Diagrams

The UML is a standard visual modelling language intended to be used for modelling business and similar processes.

3.2.(a) Use Case

A **use case** is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modeling Language as an actor) and a system to achieve a goal. The actor can be a human or other external system. Use case analysis is an important and valuable requirement analysis technique that has been widely used in modern software engineering.
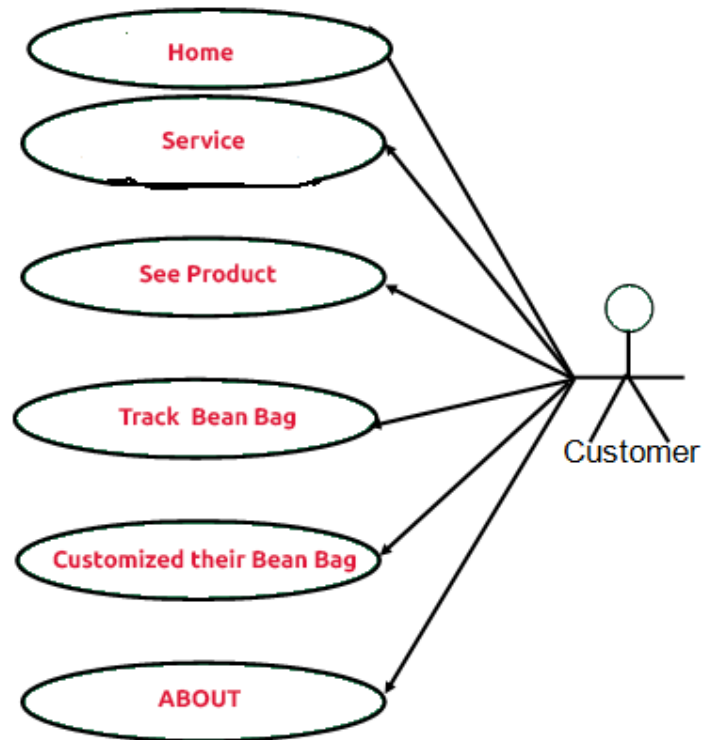
Fig.3.2.(a) Use case Diagram

TESTING

5.1 Introduction

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. In fact, testing is the one step in the software engineering process that could be viewed as destructive rather than constructive.

A strategy for software testing integrates software test case design methods into a well- planned series of steps that result in the successful construction of software. Testing is the set of activities that can be planned in advance and conducted systematically. The underlying motivation of program testing is to affirm software quality with methods that can be economically and effectively apply to both strategies to both large and small scale system.

The following are the Testing Objectives:

- Testing is a process of executing a program with the intent of finding an   error.
- A good test has a high probability of finding an as yet undiscovered error.
- A successful test is one that uncovers an as yet undiscovered error.

5.2 Design of Test cases & scenarios

The objective is to design tests that systematically uncover different classes of errors and do so with a minimum amount of time and effort. Testing cannot show the absence of defects. It can only show that software defects are present.

5.2.1 Integration Testing

Modules integrated by moving down the program design hierarchy. Can use depth first or breadth first top down integration verifies major control and

decision points early in design process. Top- level structure tested most. Depth first implementation allows a complete function to be implemented, tested and demonstrated and does depth first implementation of critical function early. Top down integration forced (to some extent) by some development tools in program with graphical user interfaces.

Begin construction and testing with atomic modules (lowest level modules). Bottom up integration testing as its name implies begins construction and testing with atomic modules. Because molecules are integrated from the bottom up, processing required for modules subordinates to a given level is always available and need for stubs is eliminated.

5.2.2 Validation Testing

Validation testing aims to demonstrate that the software functions in a manner that can be reasonably expected by the customer. This tests conformance the software to the Software Requirements Specification

5.2.2.1 Validation Test Criteria

A set of black box test is to demonstrate conformance with requirements. To check that all functional requirements satisfied, all performance requirements achieved, documentation is correct and 'human engineered', and other requirements are met e.g. Compatibility ,Error recovery and Maintainability

When validation tests fail it may be too late to correct the prior to scheduled delivery. Need to negotiate method of resolving deficiencies with the customer.
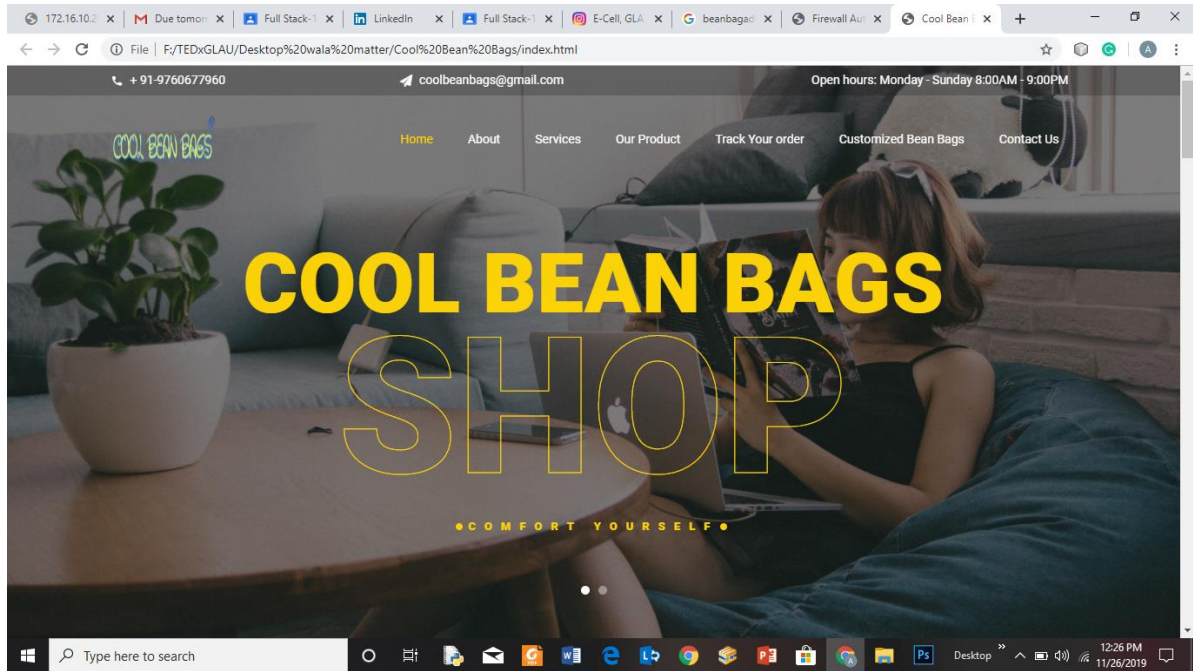
USER IMPLEMENTATION AND INTERFACE
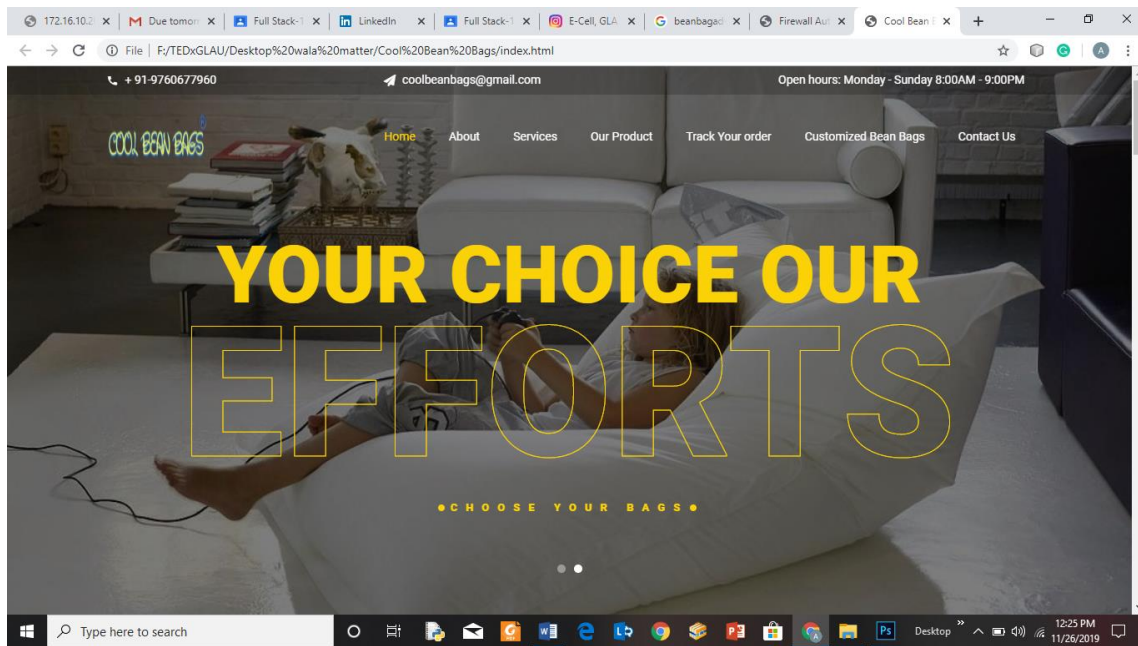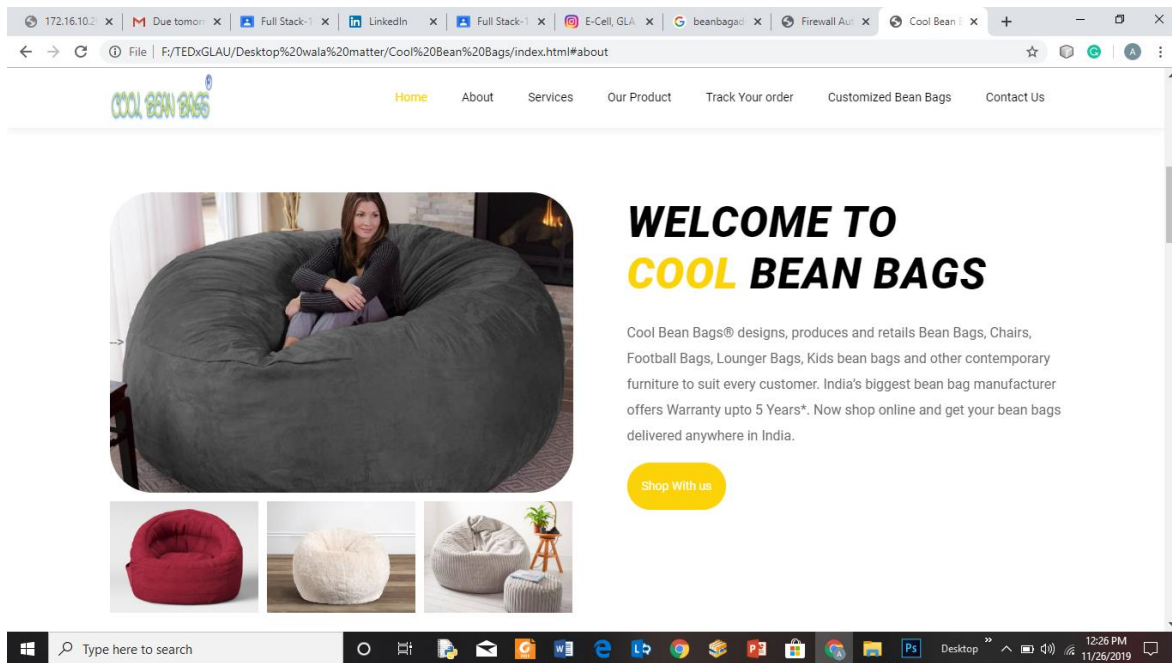
Fig.1 Home Page

Fig.2 Home Page

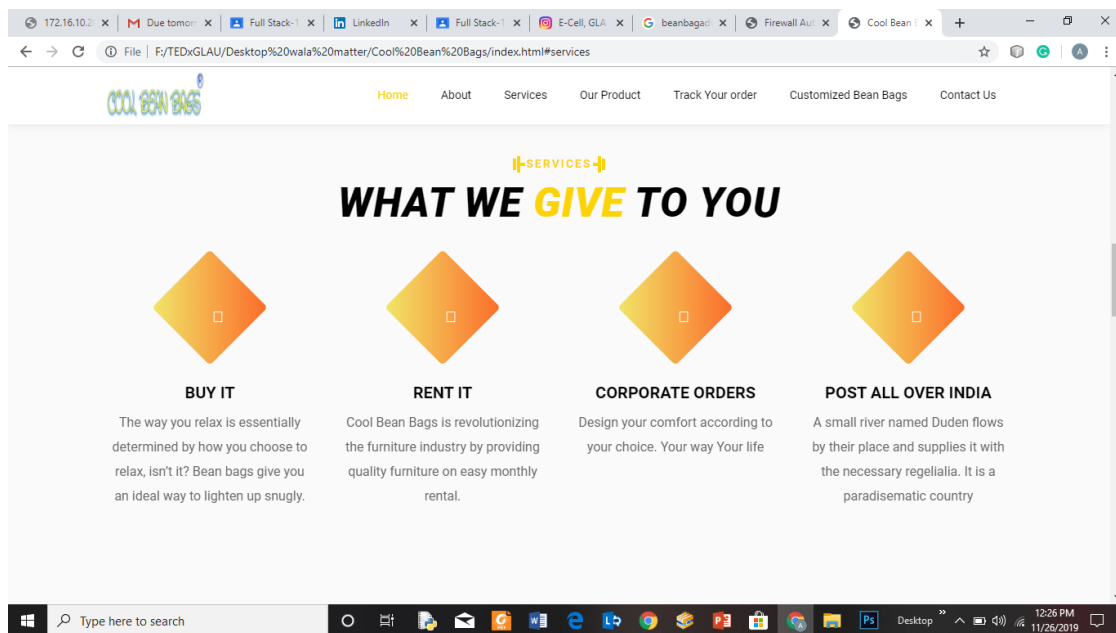**Fig.3 About**

Fig.4 Service

Fig.5 Featured Products

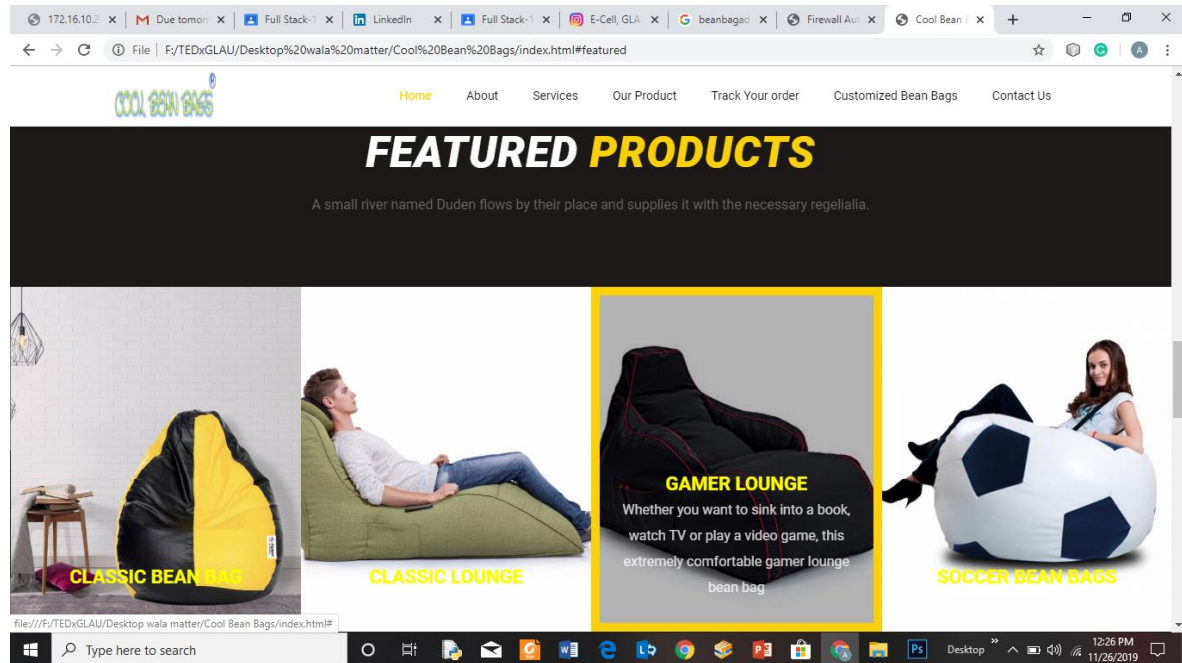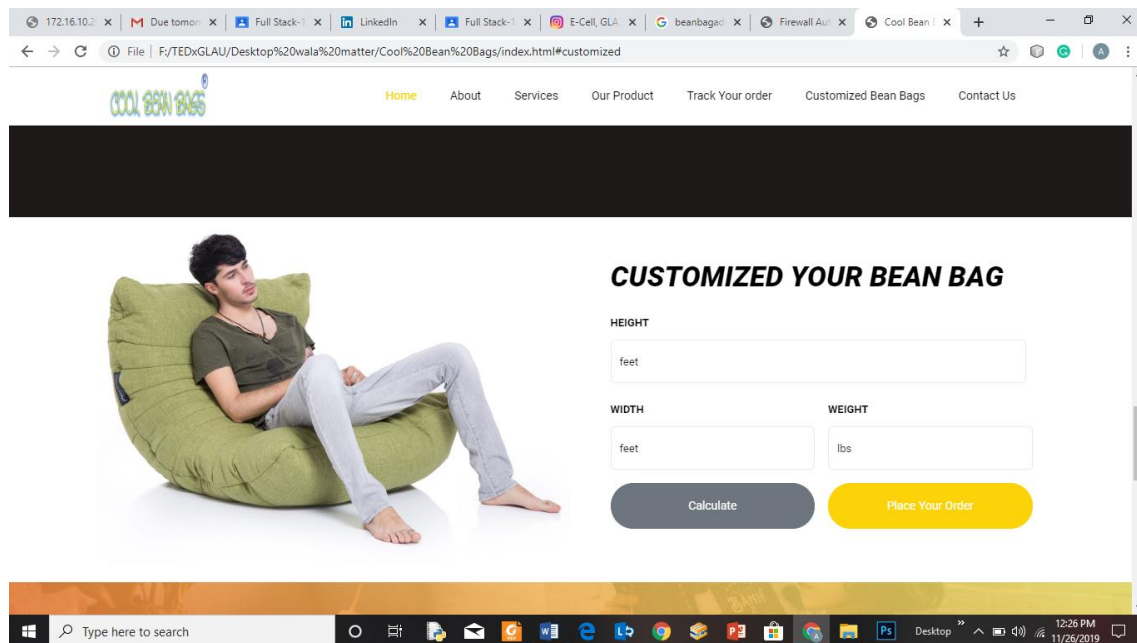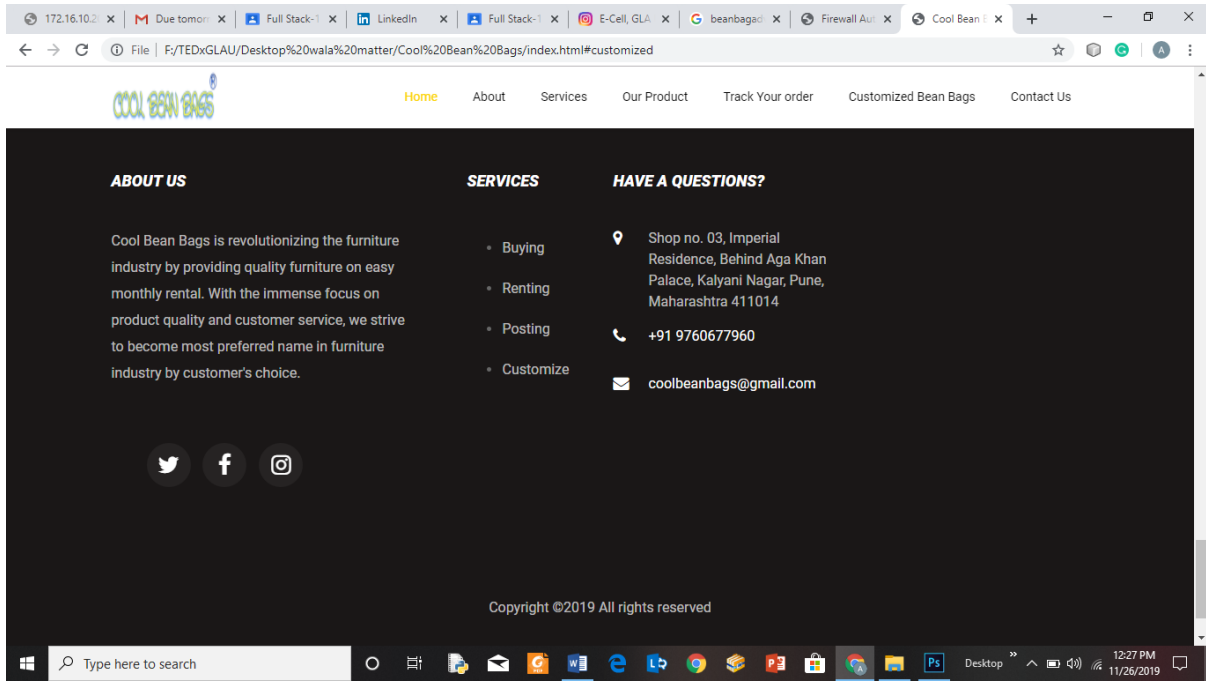## Fig.6 Customized Your Bean Bag

Fig.7 Contact Us

<u>CONCLUSION</u>

The provided website BEAN BAGS SHOP WEBSITE is made with the purpose of purpose of providing its customers a wide range of bean bags that provide us a comfortable and relaxing varieties of couches that aims at removing a persons anxiety and relaxes him by giving his/her mind a comfortable and sound rest.

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