



SEMESTER PROJECT

WEB ENGINEERING



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1. Study 10 different websites/mobile apps and list out their useful features.

Focus on the service/utility they offer.

➤ Following are the useful features of E-Commerce website

I. Top level domain with HTTPs

An ecommerce site must have a top level domain with a secured connection. If your site exclusively serves a certain country, then use a country code domain.

II. User-friendly Navigation

A clear navigation bar improves the UX of your site – mandatory for every page.

III. Wishlist

Sometimes, a customer may be interested in a product but decide to buy it later. Or a customer may find a product interesting and want to check that later for more details. A wishlist allows them to store a list of these products so that they can easily find them next time they visit your site.

IV. Search bar

If you optimise your search bar properly, it can become a powerful tool for conversions.

V. Shopping cart

Obviously, the shopping cart is an integral part of any ecommerce site. The best position to place it is the upper right corner.

VI. Featured products or Best selling products or New arrivals

You may manually add featured products or automate the process to show a list of best selling products here.

VII. Live Chat

Live chat is common on many ecommerce sites nowadays. But to implement and maintain a proper live chat option requires careful planning and resources

VIII. Product filtering and sorting

Product filtering allows customers to filter products based on different attributes. For example, a clothing store may use gender, size, colour etc. as its filtering

options. The sorting allows viewing products on ascending or descending order of price and arrival.

IX. Responsive design

It should go without saying that designing responsive website is a mandatory skill for any Melbourne web design company. Regardless of device size, your site should be flexible enough to provide the best user experience.

X. Browser compatibility

Make sure your site is properly rendered in all major browsers

XI. Dynamic Website

Modern web application can dynamically alter their content without loading a new document.

2. Use the study to identify a PROBLEM that you will be solving through your prospective Web application.

Existing System

There are few similar applications already present in the market. Some of which includes Deliver It, Sabzi Mandi Online, and Fowrry etc. Even though these applications are similar to our application, but they all lack some of the features which our application will provide. i.e., Tracking, add/edit profile etc. None of these applications directly involve marts to sell their products online. So, our application will provide the platform for marts to directly sell their products online. These applications do not provide all the grocery items on one platform.

Drawbacks in Existing Systems

Even though these applications are similar to our application but there are few drawbacks in these applications like no tracking of orders, slow delivery process, no stock information, limited delivery areas, and no guaranteed availability of the desired product(s). The major drawback of these application is that they do not provide all the grocery items on single platform. Quality of the products are not assured because they are not brought from good marts. So, their users are not satisfied with the provided services. Another major drawback of these applications is no direct involvement of mart(s). So, there is no guarantee if the

ordered product(s) is available or not and will be delivered or not. Some of the applications even postpones the delivery to next day.

3. Propose a web-based solution for the identified problem. Present a two-page project proposal summarizing the service(s) your prospective web application would provide.

Proposed Solution

To overcome the problems/drawbacks mentioned above, we have come up with a solution to facilitate the customers as well as retailers. We have proposed an "E-Grocery" System which will overcome all the drawbacks that we have mentioned above and will provide a user-friendly interface and many other features. The E-Grocery system will provide the order tracking feature, fast delivery, available stock information, delivery in all areas and guaranteed availability of the desired product(s). The E-Grocery System provides a platform where customers can find all the desired grocery items at one place. There are categories of products to make it easy for the customers to find their desired items. The E-Grocery System also provides the facility to check the quality of the products first and then pay for them if they are satisfied with the quality otherwise, they can return the product(s) if they are not satisfied with the quality of the products without paying for them. The E-Grocery system directly involves the Marts to assure the quality of the products and to provide a platform for Marts to sell their products online

Project Motivation

Online shopping has gained significant importance during the outbreak of Covid-19 to limit physical interactions. So, our aim is to facilitate the customers to limit their physical interactions in this pandemic situation and to digitalize the process of grocery shopping. The main purpose of this project is to make grocery shopping easy in this pandemic situation and to save the time and effort required for grocery shopping. This project will provide a platform for customers to buy their desired grocery items without going to markets and searching for them in multiple shops. This project will also help marts to increase their sale by selling their products online without launching their own website.

Project Scope

- To provide an online platform for grocery shopping.
- To make the whole grocery shopping process less time consuming and easy.
- To minimize the resources of buyers they spend to visit a market.
- To provide platform for renders to sell online.
- To facilitate renders to maximize their sales while using minimum resources.
- To provide part-time job opportunities for students

Objectives

The main objective of this web-based application is to bring all the useful household grocery items online at one platform.

- To make a grocery shopping process easy and less time-consuming.
- To provide convenience for the people by bringing marts in their mobile phones.
- To provide a platform for renders to multiply their sales while using fewer resources than an actual mart or a shop.