

Proposal      Ali Ammar

Online Shopping app

AL Bajwa Trader

Phone : ) \_\_\_\_\_

Visting Adress: \_\_\_\_\_

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**IT Services and IT Consulting**

## **Acknowledgement**

In the name of ALLAH, the most Merciful and most Beneficent, who taught man (all that) which he did not know. All praise belongs to Him alone. We have not traveled in a vacuum in this journey. This project has been kept on track and been seen through to accomplishing with the support and encouragement of numerous people including our well-wishers, friends, colleagues and Company. At the end of our project, we would like to thank all those people who made this project possible and unforgettable experience for us.

## **Abstract**

This project is a app-based shopping system for an existing shop. The project objective is to deliver the online shopping application into android platform. This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device. Hence the customer will get the service of online shopping and home delivery from his favorite shop. This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flip cart or eBay. Since application is available in the Smartphone it is easily accessible. Al Bajwa Trade is a Android application intended for online retailers. The main objective of this application is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for users to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a drag and drop feature so that a user can add a product to the shopping cart by dragging the item in to the shopping cart. The main emphasis lies in providing a user friendly search engine for effectively showing the desired results and its drag and drop behavior.

# INTRODUCTION

Al Bajwa Trade is business transactions that take place by communication networks. It is a process of buying and selling products, services, and information over computer network. Al Bajwa Trade is a set of dynamic technologies, applications and business process that link organizations, customers, suppliers and communities through electronic transactions and the electronic exchange of information products and services electronic commerce that is conducted between businesses and consumers, on the other hand, is referred to as business-to-consumer or B2C. This is the type of electronic commerce conducted by companies such as Amazon.com. Online shopping is a form of electronic commerce where the buyer is directly online to the seller's computer usually via the internet. There is no intermediary service. The sale and purchase transaction are completed electronically and interactively in real-time such as Amazon.com for new books. If an intermediary is present, then the sale and purchase transaction is called electronic commerce such as eBay.com.

## PURPOSE

The motive of this Online Shopping Application is to allow the user to play with the search tool and create different combinatorial search criterion to perform exhaustive search.

- Making the application JIT enabled gets rid of these unnecessary delays letting the user to perform exhaustive search. The users of this application can easily feel.
- Provide Interactive interface through which a user can interact with different areas of application easily.
- A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.
- Provide Drag and Drop feature thereby allowing the user to add products to or remove products from the shopping cart by dragging the products in to or out of the shopping cart.

## **SCOPE**

As the organizers have to wait too long to get their desired event requirements. It's our motive to provide ease to people by providing services to users according to their needs. The user can easily access built-in themes and they can easily create their themes of the events. The app should show the exact theme of the searched event for the client who is organizing the events. The app should work properly according to the requirements given by the stakeholder.

## **OBJECTIVES**

The main goal of the app is the correctness of the themes, all services and to fulfill all the requirements. The app should have completeness. This application will provide ease to the users.

- To develop an easy-to-use app-based interface where users can search for products, view a complete description of the products and order the products.
- A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.

## **Intended Audience and Reading Suggestion**

Firstly, we focus on our audience so we can check our products and services being used by their other competitors. Sometimes it is the same product and service just with the different strategy used in the market to reach the right audience. Therefore, keeping track of competitor's audience is an efficient way of knowing what market should you take care of. So, there is a common practice to record customer feedback right after completing business with them. Some online stores even take it a step ahead and offer a brief welcoming survey to new users, to take note of their needs at the start. Reading suggestions of Customer is essential. So, the customer/audience giving to the admin feedback and advice on problems that they face during the use of AL Bajwa Trade.

AL Bajwa Trade has a prominent future scope to buy products concerning to go market for buying products. Online shopping Internet software developed on and for the Windows and later versions environments and Linux OS. We will also provide security

to the admin to log in with an authentication rule. So unauthorized users cannot use your account. The only Authorized that will have proper access authority can access the software. The objective of the feasibility study is to determine whether or not the proposed system is feasible. The feasibility is determined in terms of four aspects

## **Document Conventions**

This document follows the Modern Language Association style.

- Time New Roman (bold) font style is used for the main heading and their subheadings.
- Font size of main heading is 16 and sub heading is 14 and sub to sub heading is 12
- Line spacing is 1.15.
- Important points are showing in the form of bullets.
- The important or main words are enclosed in double quotation.
- The paragraph starts from one “Tab” space.
- Table and figure captions will provide which recognize diagram.

## **Goals**

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a app-based interface for online retailers. The system would be easy to use and hence make the shopping experience pleasant for the users.

The goal of this application is

- To develop an easy-to-use app-base interface where users can search for products, view a complete description of the products and order the products.
- A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.

- Leverage Dart's features like strong typing and JIT compilation for efficient development and high-performance apps.
- Drag and Drop feature which would allow the users to add a product to or remove a product from the shopping cart by dragging the product in to the shopping cart or out of the shopping cart.
- A user can view the complete specification of the product along with various images and also view the customer reviews of the product. They can also write their own reviews.

## Literature Review

The current system for shopping is to visit the shop manually and from the available product choose the item customer want and buying the item by payment of the price of the item.

- It is less user-friendly
- User must go to shop and select products.
- It is difficult to identify the required product.
- Description of the product limited.
- It is a time-consuming process
- Not in reach of distant users

## Tools and Technology.

### Flutter

**Cross-platform development:** Create apps for mobile (Android, iOS), web, and desktop using a single codebase, saving time and resources.

. It was among the first server-side languages that could be embedded into Dart, **Native performance** responsive app experiences with native-like performance on each platform.

### Flutter DevTools

**Flutter DevTools** is a suite that provides debugging and performance analysis tools that are designed to enable developers to optimize their Flutter applications. From inspecting widget trees to analyzing app performance and tracking network calls

## Firebase

**Firebase** is Google's extensive mobile application platform that provides a set of backend services to accelerate application development. Developers can integrate Firebase by following easy steps and start taking benefits of services provided by Firebase such as **Firestore database, Firebase cloud messaging(FCM), authentication, and real-time database**. By integrating Firebase in applications developers can focus on building the UI part while Firebase handles backend infrastructure, reliability, and security.

## Visual Studio Code

Visual Studio Code is a **streamlined code editor with support for development operations like debugging, task running, and version control**. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

# Software Requirement and Specification

## Functional Requirements

- The Admin shall be able to click the login link.
- The Admin shall be able to enter his username and password.

- The database shall be able to validate username and password and move the user to next
- The user shall be able to click and view the product.
- The customer shall be able to view and check the specification of the product then order.
- The customer shall be able to select a product
- The user shall be able to view chat room and post messages
- The Admin shall be able to view User Profile.
- The Admin shall have a hold to view the Supplier's performance.
- The Admin shall be able to logout from system.

## Login System

- Description and Priority
- Give a user a page into the dashboard or view the products.
- Stimulus/Response Sequences
  - o Stimulus: Admin clicks on Login Link. Response: Login Page is displayed
  - o Stimulus: Admin Enters Username and Password
    - Response: Username and Password are validated from Firebase Database.
  - o Stimulus: Admin Clicks on Login Button.
  - o Response: Home Page is displayed if Username and Password is correct else Error Message is displayed
- o Functional Requirements
  - REQ-1: The Admin shall be able to click the login link.
  - REQ-2: The Admin shall be able to enter his username and password.
  - REQ-3: The database shall be able to validate username and password and move the user to next page.

## View Dashboard

- Description and Priority Admin holds all performance of work done at all over the website.
- Stimulus/Response Sequences
  - o Stimulus: User clicks on products. o Response: Products are displayed.
- Stimulus: User click on a particular Products. o Response: The product page and associated features and description are displayed.



- Functional Requirements
  - REQ-1: The user shall be able to click and view the product.

## **Order Enterprise**

- Description and Priority The customer shall be able to attend the order activity.
  - Stimulus/Response Sequences o Stimulus:
    - User clicks on different products.
    - Response: The products are displayed. Stimulus:
    - User clicks on next.
    - Response: The subsequent order page will display.
  - Stimulus:
    - User Clicks on Finish order.
    - Response: The result will be displayed.
- Functional Requirements o REQ-1: The customer shall be able to view and check the specification of the product then order.
  - REQ-1: The customer shall be able to select a product.

## **View/Management User Profile**

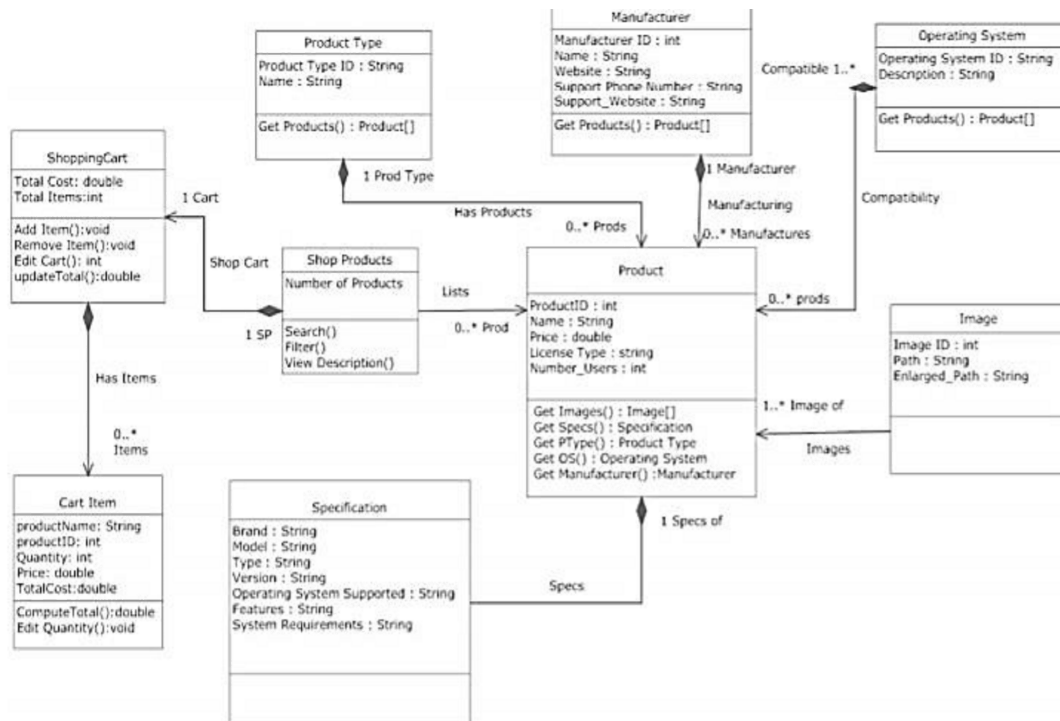
- Description and Priority the Admin shall be able to see costumer profile. Admin holds all performance of work done at all over the website. o Response: Admin Profile Page is displayed.
- Functional Requirements o REQ-1: The Admin shall be able to view User Profile. o REQ-2: The Admin shall have a hold to view the performance

## **Logout**

- Description and Priority o The admin shall be able to Logout.
  - Stimulus/Response Sequences
  - Stimulus: Admin clicks on dashboard Logout option.

- Response: Admin is Logout and Index Page is displayed.
- Functional Requirements o REQ-1: The Admin shall be able to logout from system

## Class Daigram



## Testing and Evaluation

As the part of system testing we execute the program with the intent of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. The ultimate aim is quality assurance. Tests are carried out and the results are compared with the expected document. In the case of erroneous results, debugging is done. Using detailed testing strategies, a test plan is carried out on each module. The various tests performed are unit testing, integration testing and user acceptance testing.

## **Summary and Conclusion**

### **Project Summary**

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. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. This web system not only work as intermediate between vendor and customer but also work as social networking website for sharing of news. It acts as a blog where posting by company is possible. As an initial attempt, we motivate and solve the problems of ecommerce and social networking Functions all together. This web system will be pool of knowledge. This knowledge is about new technology in IT sector. This web system helps to find out best vendor for IT Services from multiple vendors. It also provides social IT networking awareness, IT related problem solving. It helps to select appropriate company for suitable projects of customer. This all the aspect has been covered with this web system. IT related issues like Development, networking, hardware issues, SEO, testing etc. can be resolve with help of this web system. It connects all the company and customer together so that they can work together to accomplished their tasks at the highest point of success and make outstanding new technology trends in this IT Web Network

### **Conclusion**

This app provides a computerized version of shop manipulate system which will benefit the users as well as the visitor of the shop. It makes entire process online where users can search product, and buy various product. It also has a facility for common user by login into the system where user can login and can see status of ordered item as well request for items or give some suggestions. It provides the facility of admin's login where admins can add various item, review user's activity and also give occasional discount and also add info about different events for the customer.

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfy all requirements of the user. The objective of software planning is to provide a frame work that enable the manager to make reasonable estimate made within a limited time frame at the beginning of the software project and should be update regularly as the project regularly. At the end it is concluded that we have made effort on following points.

- A description of background and context of the project and its relation to work already done in the area

. • Made statement of the aims and objectives of the project.

- The description of the purpose, scope and applicability.

- We define the project on which we are working in project.

- We describe the requirement specifications of the system and actions that can be done on these things.

- We designed user interface and security issues related to system.

- Finally, the system is implemented and tested according to the test cases