# Conversational Commerce (Estilo)

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**Abstract -** *Nowadays, due to hectic lifestyle, shopping is really a chaotic task. This portal helps people find their desired product in their limited time span. Conversational Commerce is an electronic version of assistant guide found at shopping stores which guide you through the store for your required product. One can easily search for particular clothes as required by selecting the categories or uploading some similar images. Hence, this portal can be proved to save much time and provide high convenience for everybody, especially for people who run super late.*

*Key Words:  Desired product, Assistant guide, shopping, similar images, hectic lifestyle, portal*

## 1. INTRODUCTION

Whether they're envisioning digital ecosystems, designing complex platforms, or developing IoT Solutions, tools, and user experiences, they believe in creating things which make life simple. Their approach, methods, and practices are rooted in collaboration through which they deliver actionable strategies, tangible products, innovative solutions which are savvy and compelling.

## 1.1 Project Definition

This portal helps people find their desired product in their limited time span. Conversational Commerce is an electronic version of assistant guide found at shopping stores which guide you through the store for your required product. One can easily search for particular clothes as required by selecting the categories or uploading some similar images.

## 1.2 Technology

Technology Architecture and Planning, Rapid Protyping, Website and Application Development, Mobile Application Development (ios, android, windows), Software and API Development, Experimental and Emerging Platforms.

## 1.3 Purpose

Conversational Commerce is for general public. This service helps people to find their desired clothes from the nearest shops in a short span of time by simple searching by selecting categories or uploading similar images

The benefits of Conversational Commerce are below:

- Providing accurate, up-to-date and complete stock of all the brand stores and shops.

- Enabling quick access to the nearest locations holding their required products.

- Securely sharing the uploaded images.

- Helping customers save their time by giving them the nearest locations where their product is available.

- Enabling safer and more reliable way of shopping

## 1.4 Scope

The Software Requirements Specification captures all the requirements in a single document. Conversational Commerce that is to be developed provides the customers like men, women, kids and adults to find their desired clothes from the nearest locations. The Health Transcription Services supposed to have the following features. The system provides free access to the customers.

- The system provides the members with the option to upload the images.

- The system does vector extraction and filtering.

- The system allows users to select the categories of clothes.

- The system allows the user to give feedback about the products.

The features that are described in this document are used in the future phases of the software development cycle. The features described here meet the needs of all the users. The success criteria for the system are based in the level up to which the features described in this document are implemented in the system.

## 2. System Requirement Specification

The system has to be very reliable due to the importance of data and the damages incorrect or incomplete data can do.

- **Availability**: The system is available for all of its users around the clock. They can use it whenever they want to.

- **Mean Time between Failures (MTBF)**: The system will be developed in such a way that it may fail once in a year.

- **Mean Time To Repair (MTTR)**: Even if the system fails, the system will be recovered back up within an hour or less.

- **Accuracy**: The accuracy of the system is limited by the accuracy of the speed at which the shopping malls uses the system.

- **Maximum bugs or Defect Rate**: not specified.

- **Access Reliability**: The system shall provide 100% access reliability.

## 2.1 Design Constrains

- **Software language Used**: The languages that shall be used for coding the Health Transcription Services are Java Servlets, Java Server Pages (JSP), HTML, JavaScript, jQuery and Bootstrap. For working on the coding phase of, the Health Transcription Services Internet Information Services (IIS) Server needs to be installed.

- **Development Tools**: Will make use of the available Java Development Tool kits for working with Java Beans and Java Server Pages. Also will make use of the online references available for developing programs in Servlets, JSP, HTML and the two scripting languages, JavaScript and jQuery.

- **Class Libraries**: Will make use of the existing Java libraries available for JSP and Servlets. Also we need to develop some new libraries for the web-based application.

## 2.2 Interfaces

- **User Interfaces**:

  Use of the existing Web Browsers such as Microsoft Internet Explorer, Google Chrome or Mozilla Firefox.

- **Hardware Interfaces**:

  Client Side: Client should have minimum 256 MB RAM, 100 GB Hard drive.

  Server Side: Server should have minimum RAM 2 GB Intel core i3 2nd generation or more Internet Connection

- **Software interfaces**:

  Client Side: Front end of this application can be accessible on any Web-browser

  Server Side: Apache Web Server- Apache tomcat Server 7.0

  Data Base Server- MySQL server

## 3. Work Flow

Below shown diagram is an interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the
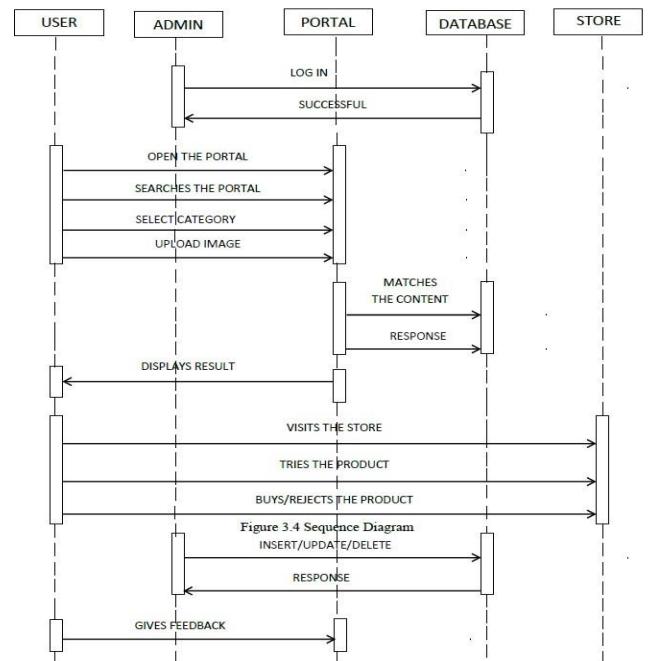


**Fig -1**: Sequence Diagram

scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios.
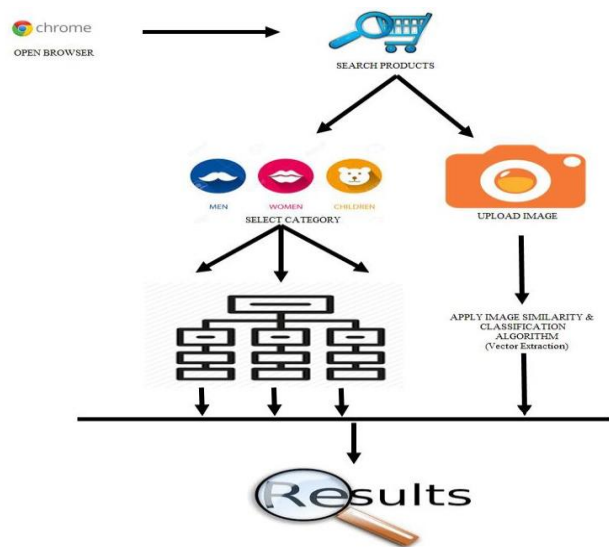


**Fig -2**: System Flow Diagram

The user interface (UI) is everything designed into an information device with which a human being may interact -- including display screen, keyboard, mouse, light pen, the appearance of a desktop, illuminated characters, help messages, and how an application program or a Web site invites interaction and responds to it.

In early computers, there was very little user interface except for a few buttons at an operator's console. The user interface was largely in the form of punched card input and report output.

## 4. Implementation

**4.1 Eclipse Mars:** Eclipse uses plug-ins to provide all the functionality within and on top of the runtime system. Its runtime system is based on Equinox, an implementation of the OSGi core framework specification.

In addition to allowing the Eclipse Platform to be extended using other programming languages, such as C and Python, the plug-in framework allows the Eclipse Platform to work with typesetting languages like Latex and networking applications such as telnet and database management systems.

The plugin architecture supports writing any desired extension to the environment, such as for configuration management. Java and CVS support is provided in the Eclipse SDK, with support for other version control systems provided by third-party plug-ins.

**4.2 SQL Yog:** SQLyog is a GUI tool for the RDBMS MySQL. It is developed by Web yog, Inc. based out of Bangalore, India and Santa Clara, California.

SQLyog is a GUI front-end for MySQL (there are others) - Community and Enterprise Editions allows Data Definition and Data Manipulation after loading it and before using it you need to 'Connect' to the right MySQL instance.

**4.3 Security Feature:** The system intelligent women mobile navigator is written in Java. Java is designed to provide several inherent securities features from ground-up and at all levels from the Java language constructs to the Java runtime environment and from the class libraries to the complete application.

**4.4 Hibernate:** Hibernate framework is used for the system as the concern of security of the clients' data. It is a very common misconception that ORM solutions, like hibernate, are SQL Injection proof.

Hibernate allows the use of "native SQL" and defines a proprietary query language, named, HQL (Hibernate Query Language); the former is prone to SQL Injection and the latter is prone to HQL (or ORM) injection.

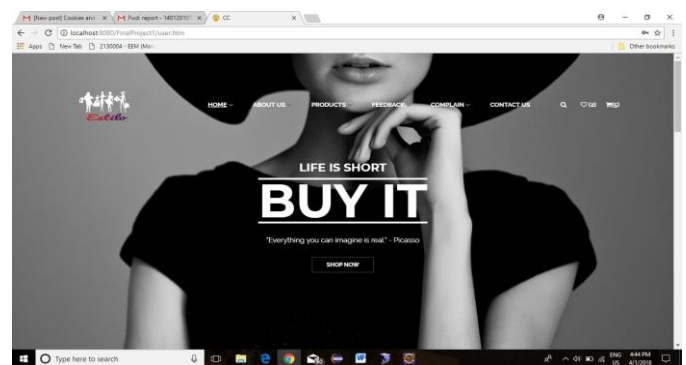## 5. Application

### 5.1 Client Side
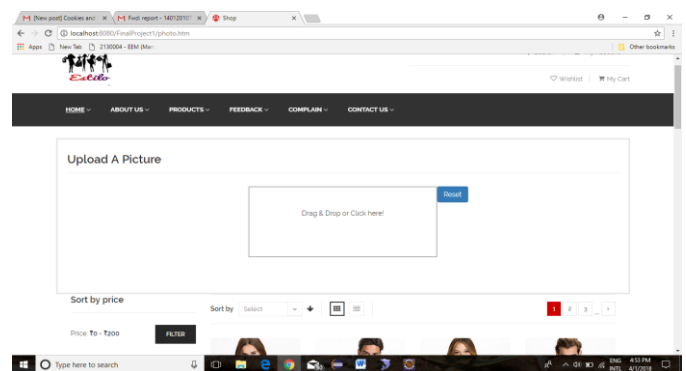


**Fig -3**: Home page



**Fig -4**: Upload picture

There are many other pages like product page where the user can browse category wise to find the desired product. This upload picture is the main feature here as it uses image similarity algorithm to fetch vectors and find the similar product images and shows on the screen. The user can also give feedbacks by directing themselves to the feedback page.

There is the admin panel from where adding, dropping, and changing in the products is done.

## 5. Conclusion

Basic use of our portal is that we can reduce all online shopping problems like poor quality of the products. People can instead search the stores and shops for particular required/desired clothes available at the nearest locations and save their valuable time. Ultimately, this brings users personalized experience and is useful to all.

## 6. Future Work

In future, we plan to expand it for large scale malls in the city and abroad. We will allow them to make online payment as well and also increase the accuracy of the portal. We shall also try and make the application of our portal for more easy access.

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