

PROJECT X

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Software Architecture Design

1. Introduction

1.1 Project x description

This project is about an E Commerce website. Our team was put together to create a web application that is similar to the likes of Taobao or Amazon. We came up with something to the best of our coding abilities. The main coding languages we used were html, CSS and Java script.

1.2 Readers

The primary audience for this document includes: project managers, developers, testers, customers, product managers, and implementers.

1.3 Reference Material

Document	Version	Description
Practical Object oriented design with UML	2 nd Edition	An Object oriented programming language to teach UML/HTML/HTML5/CSS
Programming with Microsoft Visual Basic 2012	6 th Edition	An Object oriented programming language to teach programming concepts.

1.4 Definitions of Terms

Acronym, terminology	Explanation
CSS	Cascading Style Sheet. This is used to format the layout of web pages. They can be used to define text styles, table sizes, and other areas of Web pages that previously could only be defined in a page's HTML.
HTML	Hypertext Mark-up Language. HTML is the language used to create webpages. "Hypertext" refers to the hyperlinks that an HTML page may contain. "Mark-up language" refers to the way tags are used to define the page layout and elements within the page.
UML	Unified Modelling Language. This is a programming language that is used for object-oriented software development. To organize program code more efficiently, programmers often create "objects" that are sets of structured data within programs.

1.5 Overview

This document describes the system architecture design using the above stated programming languages (HTML, UML, CSS, Java Script, and JSP)

2. System Overview

(This section mainly explains the key features of the project that will be implemented, user-oriented and other general information)

The program provides normal search items features: that is search by item's name. Another search is the advanced search, which allows user enter more input to narrow the scope of the products.

Furthermore, system will provide the history order to the registered

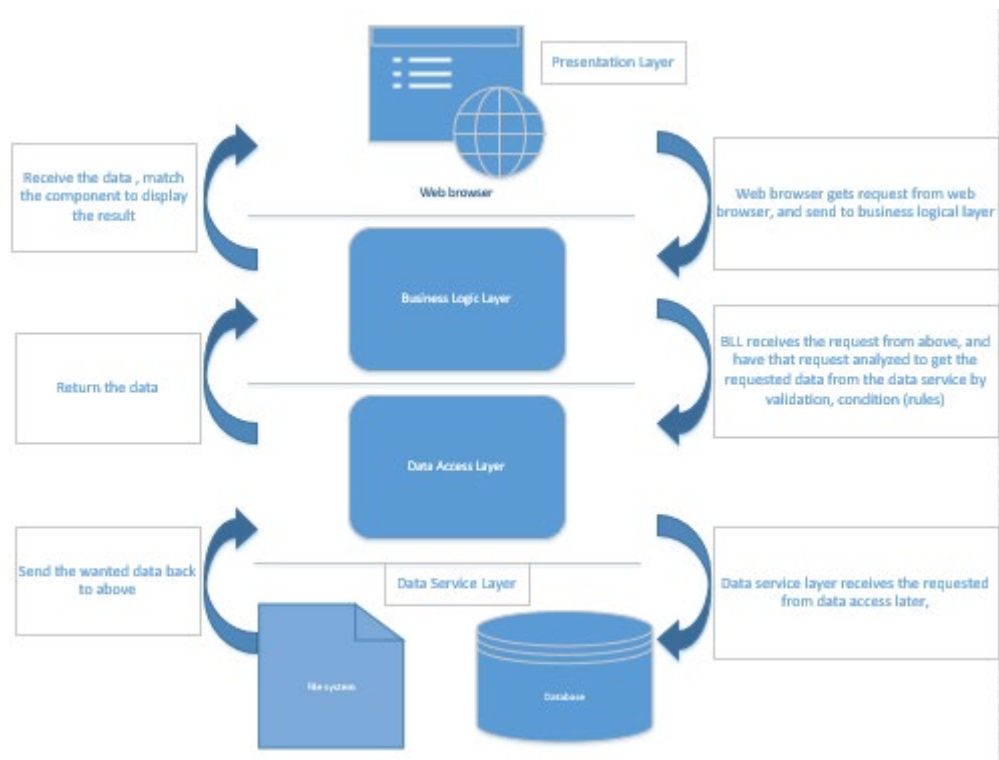
user, so that user can follow what he or she has been buying so far. User is also able to see the item's detail of each item with item's description.

3. The development and test environments

category	Software	hardware
Development environment	IntelliJ IDEA 15.0.2	Intel core i5
	Sublime text	asus
	Visual studio	lenevo
test environment	Google Chrome	lenovo
	Mozilla Firefox	hp
	Apache-tomcat-7.0.70	MacBook pro

4. Software Architecture

4.1 The Logical Schema



1. Database

Data persistence layer, responsible for maintaining the data and provides online transaction processing services, and also provides enterprise-level data services, such as transactions, security, and so on.

1. Enterprise Library DAAB

The Enterprise Library data access module, encapsulates the ADO.NET data access features, the abstract provides access to a variety of data sources, such as: this module allows complete access to SQL Server, Oracle and other databases hide details about access to data, using a unified programming model for data operation has completed

2. BLL and Data Entity

BLL: the business logic layer, encapsulated the actual business logic and data access logic, including data validation, operations and data access, transaction processing, and permissions. It provides direct services to Web UI layer, and by using the DAAB to provide data access services data operation has completed.

Data Entity: data entity layer, data entities is a typed dataset, typed data sets to provide access to data in tables and columns of the strongly typed methods, events and properties. It completes the package of business entities, and is used to pass data between tiers.

4、 HTTP Context

This layer is responsible for maintaining a current context, including the Http Session, and security context information.

5. Web UI

The user interface layer, which is responsible for receiving commands, requests, data from the user, and passed to the BLL, then presents the results. The services it provides directly using the BLL.

1. Login page

*Have an eye on something?
Start a Cart List.
Simply create a Customer Account below,
then, whenever you see something you love on our site,
just click the "AddToCart" button on the product page.
Happy Shopping!*

Log in <small>(* necessary information)</small>	Registration <small>(* necessary information)</small>
Email* : <input type="text" value="ex.appacha"/>	First name* : <input type="text" value="appacha"/>
Password* : <input type="password"/>	Last name* : <input type="text" value="appacha"/>
forgot password	Phone number* : <input type="text"/>
<input type="button" value="login"/>	Email address* : <input type="text" value="ave@.com"/>
	Enter your password* : <input type="password"/>
	Confirm password* : <input type="password"/>
	Gender* : <input type="text" value="Male"/>
	<input type="button" value="Register"/>

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2. Home page

offline Sign in

GLOBAL MARKET

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Categories

- ♥ Clothing
- ♥ Souvenirs
- ♥ Stationery

... Welcome to Global Market ...

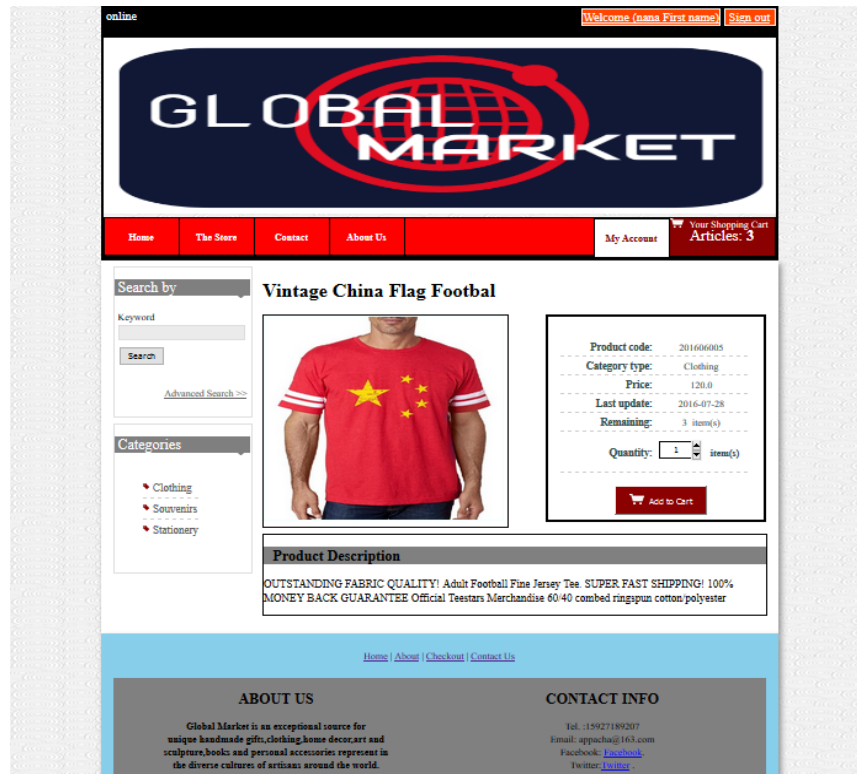
Up to 50% off Training Clothing

100% Cotton Imported undershirts closure Machine Wash Six tagless cotton T-shirts with short sleeves and V-neckline

Clothing

 Code: 20160031 Hanes Men's V-Neck 70.0 RMB	 Code: 20160032 Hanes Men's Graphic Tee US 120.0 RMB	 Code: 20160033 Bretz Paris Eiffel Tower 120.0 RMB	 Code: 20160034 GHANA-Country-Flag-Country 120.0 RMB
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3. Product's detail page



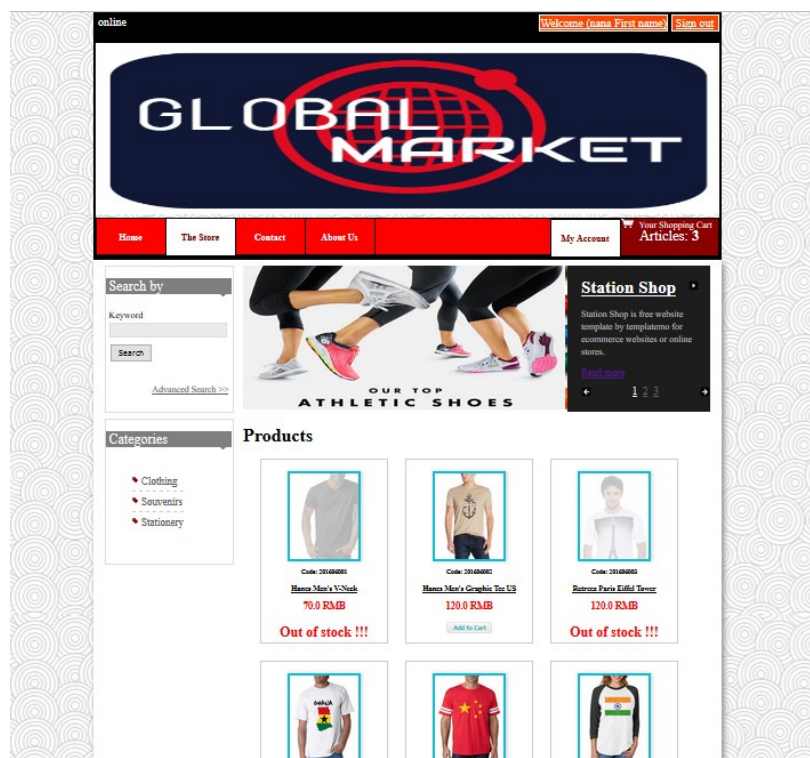
4. Shopping Cart page



5. Contact Us page



6. Product page (The Store page)



7. Search Page (Normal search)



8. Search page (Advanced search)



9. About us page



10. My account page

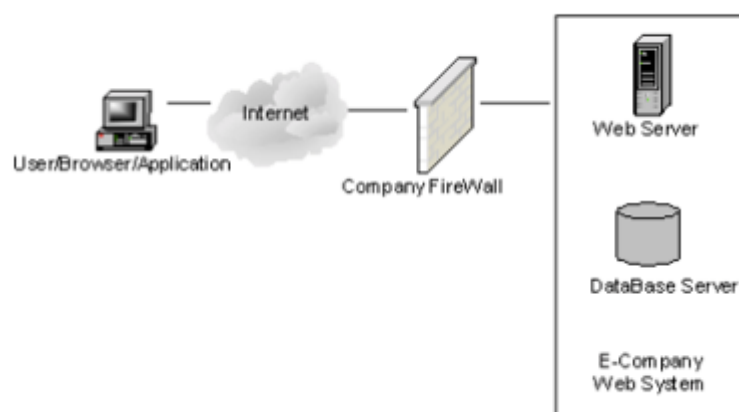


11. History order page



5.2 Physical Architecture

In the form of graphics or text, stating that the deployment server, client, and network infrastructure.



6. Page Navigation Design

