**CHAPTER 1**

**INTRODUCTION**

* 1. **Company Profile**

**Name of Organization: ePERSISTENCE INDIA SOFTWARE.**

Website: http://www.epersistenceindia.com

epersistence India software is a team of experts in the field of web designing and development. We have expertise and knowledge that makes us apart from others. We understand client’s requirement, make plans and dedicate a team of experts who have years of experience in corresponding field. We are here to dominate the market and change the way people think about the world of web designing and development.

**Vision:** “To be the world’s recognized Software Company with the best lifetime performances and to design success path for each and every industry's growth and progress."

**Mission:** “To provide intelligent software concepts in desktop and Web applications for each and every industry vertical."

**Services provided by Company:**

• Website Designing and Development.

• Desktop Applications.

• SEO Services.

• E-Commerce Website

* 1. **Existing System and Need of proposed system**
* **Existing System:-**
* This existing system is standalone system and also involves lot of paper work.
* Tailors use traditional manual systems to book in their clients also.
* The clients have to travel to location of the tailor shop to get their measurement taken. These measurements are written on papers or books.
* This method pose a high threat in terms of security of their information i.e., can get lost, unauthorized people can easily access the information, data confidentiality and integrity not maintained.
* **Need of New System:-**
* To make system more interactive and more user friendly.
* To expend their business and reach to more customer and provide them online service to give their measurement to their tailor.
* This system will solve all these problems and automate the tailor shops and enhance accessibility irrespective of geographical locations provided there is internet.

* 1. **Scope of the project**

The Neo Kaizen Garments and Tailoring works provide the online System that will permit to register and deliver measurements to the tailor for the next process to follow. It also maintains clients’ information and generating various reports about the tailor shop. The main users of the system are clients (customer) and system Administrator. It also enables customers to check the status of their garments i.e. if ready or not for collection. The system provides information about the cost, the fabric type the customer want his dress stitched from, the duration a customer wants the dress finished, the type of material to be used, quantity in terms of pairs needed and most importantly, the system computes the total cost and avails that information to the customer. Customer can do online payment or cash when they come to pick their clothes.

* 1. **Operating Environment-Hardware and Software**

**Hardware Requirements:**

* Client Machine:
  + Processor: Minimum Core II and above
  + Ram: 512 MB.
  + Hard Disk Space: Min 200 MB.

**Software Requirements:**

* Operating System
  + Windows XP & above
  + Max (Yosemite 10.10.1) & above
  + Linux
* Web Browser
  + Internet Explorer (Version 9 & above)
  + Google Chrome (Version 30 & above)
  + Opera (Version 9 & above)
  + Safari
    - For Mac OS (Version 5.0.6 onwards)
    - For Windows (Version 5.1 onwards)
* Development Machine
  + - Any OS
    - C# .NET
    - SQL Server
    - IIS Server

**1.5 Detail description of technology used**

* **Introduction to .NET:-**

Visual Studio .NET is a complete set of development tools for building ASP Web applications, XML Web services, desktop applications, and mobile applications. Visual Basic .NET, Visual C++ .NET, and Visual C# .NET all use the same integrated development environment (IDE), which allows them to share tools and facilitates in the creation of mixed-language solutions.

* **The .NET Framework:-**

A framework is commonly thought of as set of class libraries that aid in the development of applications. The .NET Framework is more than just a set of classes. The .NET Framework is targeted by compilers using a wide variety of programming languages. These languages are used to create a wide range of applications, including everything from small components that run on handheld devices large Microsoft ASP.NET applications that span Web forms, where multiple Web servers act together to improve the performance and fault tolerance of web site.

* **ASP.NET:-**

ASP .NET provides a unified web development model that includes the services necessary for developers to build enterprise-class Web Applications. ASP .NET is a compiled .NET based environment.NET Framework is available to any ASP .NET application. Developers can easily access the benefits of these technologies, which include the managed common language runtime environment, type safety, inheritance, and so on.

* **SQL Server 2008:-**

SQL Server is a comprehensive database platform providing enterprise class data management with integrated business intelligence (BI) tools. The SQL Server 2008 database engines provides more secure, reliable storage for both relational and structured data enabling you to build and manage highly available, performing data applications that you and your people can use to take your business to next level.

* **IIS 7**

IIS (Internet Information Server) is a group of Internet servers (including a Web or Hypertext Transfer Protocol server and a File Transfer Protocol server) with additional capabilities for Microsoft's Windows NT and Windows 2000 Server operating systems. IIS is Microsoft's entry to compete in the Internet server market that is also addressed by Apache, Sun Microsystems, O'Reilly, and others. With IIS, Microsoft includes a set of programs for building and administering Web sites, a search engine, and support for writing Web-based applications that access databases. Microsoft points out that IIS is tightly integrated with the Windows NT and 2000 Servers in a number of ways, resulting in faster Web page serving.

**Features of IIS**

* Anonymous authentication
* Basic access authentication
* Digest access authentication
* Integrated Windows Authentication
* UNC authentication
* .NET Passport Authentication
* Certificate authentication

**CHAPTER 2 PROPOSED SYSTEM**

**2.1 proposed system**

User friendliness is provided in the application with various controls. The system makes the overall project management much easier and flexible. It can be accessed over the Internet. Various classes have been used to provide file upload and mail features. There is no risk of data mismanagement at any level while the project development is under process.

**2.2 Objective of the system**

* To automate the current manual tailoring and garments system and maintain a searchable customer, product database, maintain data security and user rights.
* To enable customers to send their measurements to their tailors for their clothes to be made.
* To provide information about the cost, the fabric type, the urgency at which a customer wants the dress finished the type of material to be used and quantity in terms of pairs needed.
* To enable report generation: it is able to give a report of finished garments to the clients for collection and bookings made, administrator is able to view all the customers and their details, finished garments and all the bookings made

**2.3 User Requirement**

It is very important to get users of the system fully involved such that the problem of change management does not arise. The system is expected to be:

* Easy to learn and use.
* Improve on the efficiency of information storage and retrieval.
* Produce results faster i.e. measurements submission or checking clothe status, therefore reducing on time wasted during to and fro travelling.
* Provides attractive interfaces with easy navigation throughout the system.
* Faster, flexible and convenient.
* A system that stores data and produces reports timely and accurately

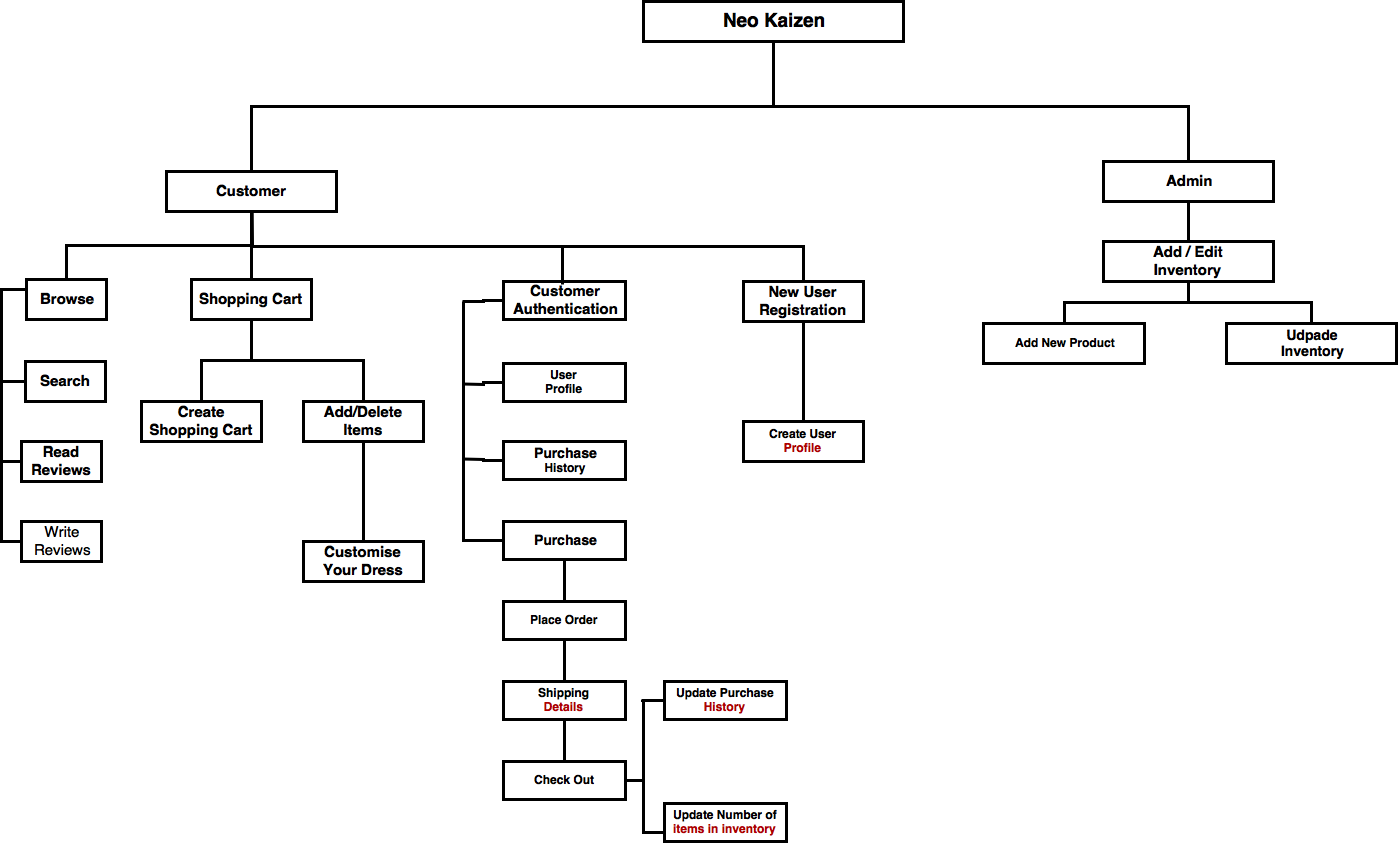
**CHAPTER 3**

**ANALYSIS AND DESIGN**

* 1. **E-R Diagram**

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* 1. **Functional Decomposition Diagram (FDD)**

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**3.3Table Specification**

**3.3.1 Customer Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Customer ID | int | Primary Key |
| 2 | First Name | Varchar(20) | Not Null |
| 3 | Last Name | Varchar(20) | Not Null |
| 4 | Building name/No | Varchar(20) | Null |
| 5 | Address Line\_ 1 | Varchar(20) | Null |
| 6 | City | Varchar(20) | Null |
| 7 | State | Varchar(20) | Null |
| 8 | Postal Code | Int | Null |
| 9 | Country | Varchar(20) | Null |
| 10 | Phone | Bigint | Not Null |
| 11 | E-mail | Varchar(20) | Not Null |
| 12 | Password | Varchar(20) | Not Null |
| 13 | Billing Address | Varchar(50) | Not Null |
| 14 | Billing city | Varchar(20) | Not Null |
| 15 | Billing Postal code | Int | Not Null |
| 16 | Date Entered | Date | Not Null |

**3.3.2 Product Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Product\_ Id | Int | Primary Key |
| 2 | Product\_ Name | Varchar(20) | Not Null |
| 3 | Pro\_ Category | Varchar(20) | Not Null |
| 4 | Pro\_ Description | Varchar(100) | Not Null |
| 5 | Unit Price | Int | Not Null |
| 6 | Discount | Int | Null |
| 7 | Picture | Blob | Not Null |

**3.3.3 Measurement Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Measurement\_ Id | Int | Primary Key |
| 2 | Customer Id | Int | Foreign Key |
| 3 | Product\_ Id | Int | Foreign Key |
| 4 | Product\_ Size | varchar(20) | Not Null |
| 5 | Size\_ Description | Varchar(100) | Not Null |
| 6 | Material\_ Type | Varchar(20) | Not Null |
| 7 | Design\_ Style | Varchar(20) | Not Null |

**3.3.4 Order Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Order­\_ Id | Int | Primary Key |
| 2 | Order Date | Date | Not Null |
| 3 | Ship Date | Date | Not Null |

**3.3.5 Product­ \_Order Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Product\_ Id | Int | Foreign Key |
| 2 | Order Id | Int | Foreign Key |

**3.3.6 Invoice**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Invoice Id | Int | Primary Key |
| 2 | Order Id | Int | Foreign Key |
| 4 | Price | Int | Not Null |
| 5 | Quantity | Int | Not Null |
| 6 | Discount | Int | Null |
| 7 | Total | Float | Not Null |

**3.3.7 Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | User\_ Name | Varchar(20) | Primary Key |
| 2 | Password | Varchar(20) | Not Null |

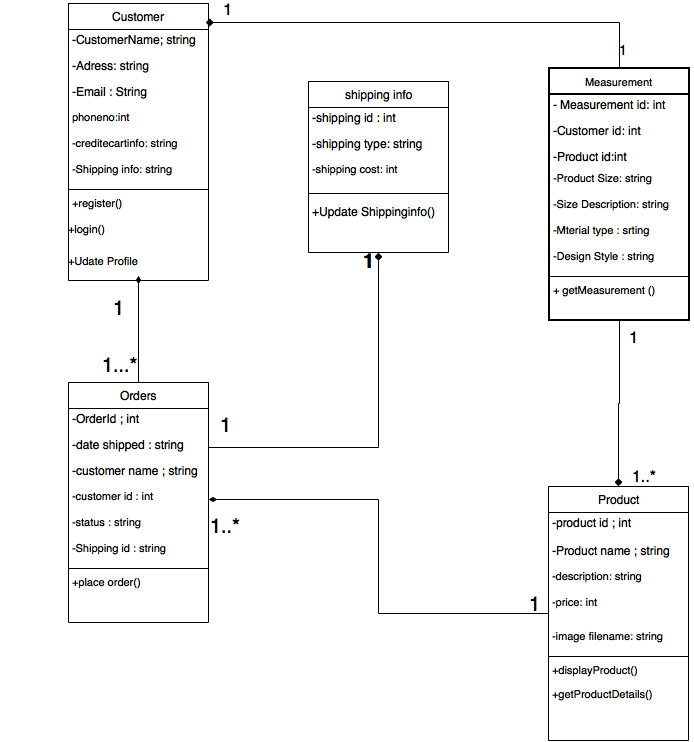
**3.3.8 User Registration Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Field Name** | **Data Type** | **Constraint** |
| 1 | Name | Varchar | Primary Key |
| 2 | Phone\_ Number | BigInt | Not Null |
| 3 | Email | Varchar(20) | Not Null |
| 4 | Password | Varchar(20) | Not Null |

* 1. **Data Dictionary**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Field Name** | **Data Type** | **Constraint** | **Table Name** | **Description** |
| **1** | Address | Varchar(20) | Null | Customer | To store the address of customer |
| **2** | Billing Address | Varchar(50) | Not Null | Customer | To store the billing address of Customer |
| **3** | Billing city | Varchar(20) | Not Null | Customer | To Store the City name of the Customer. |
| 4 | Billing Postal code | Int | Not Null | Customer | To store the postal code of customer of billing address. |
| 5 | Building name/No | Varchar(20) | Null | Customer | To store the Building name or no. Of customer. |
| 6 | City | Varchar(20) | Null | Customer | To store the city name of customer |
| 7 | Country | Varchar(20) | Null | Customer | To store the Country name of Customer. |
| 8 | Customer ID | int | Primary Key | Customer | To Store the Unique identification No of Customer |
| 9 | Customer Id | Int | Foreign Key |  | To Store the Unique identification No of Customer as foreign key |
| 10 | Date Entered | Date | Not Null |  | To store the particular date who entered by customer |
| 11 | Design\_ Style | Varchar(20) | Not Null | Measurement | To store the Design style of garments in the table |
| 12 | Discount | Int | Null | Invoice | To Store the Discount amount if any in the Invoice Table |
| 13 | Discount | Int | Null |  |  |
| 14 | E-mail | Varchar(20) | Not Null |  |  |
| 15 | E-mail | Varchar(20) | Not Null |  |  |
| 16 | First Name | Varchar(20) | Not Null |  |  |
| 17 | Invoice Id | Int | Primary Key |  |  |
| 18 | Last Name | Varchar(20) | Not Null |  |  |
| 19 | Material\_ Type | Varchar(20) | Not Null |  |  |
| 20 | Measurement\_ Id | Int | Primary Key |  |  |
| 21 | Name | Varchar | Primary Key |  |  |
| 22 | Order Date | Date | Not Null |  |  |
| 23 | Order Id | Int | Foreign Key |  |  |
| 24 | Order Id | Int | Foreign Key |  |  |
| 25 | Order­\_ Id | Int | Primary Key |  |  |
| 26 | Password | Varchar(20) | Not Null |  |  |
| 27 | Password | Varchar(20) | Not Null |  |  |
| 28 | Password | Varchar(20) | Not Null |  |  |
| 29 | Phone | Bigint | Not Null |  |  |
| 30 | Phone\_ Number | BigInt | Not Null |  |  |
| 31 | Picture | Blob | Not Null |  |  |
| 32 | Postal Code | Int | Null |  |  |
| 33 | Price | Int | Not Null |  |  |
| 34 | Pro\_ Category | Varchar(20) | Not Null |  |  |
| 35 | Pro\_ Description | Varchar(100) | Not Null |  |  |
| 36 | Product\_ Id | Int | Primary Key |  |  |
| 37 | Product\_ Name | Varchar(20) | Not Null |  |  |
| 38 | Product\_ Id | Int | Foreign Key |  |  |
| 39 | Product\_ Id | Int | Foreign Key |  |  |
| 40 | Product\_ Size | varchar(20) | Not Null |  |  |
| 41 | Quantity | Int | Not Null |  |  |
| 42 | Ship Date | Date | Not Null |  |  |
| 43 | Size\_ Description | Varchar(100) | Not Null |  |  |
| 44 | State | Varchar(20) | Null |  |  |
| 45 | Total | Float | Not Null |  |  |
| 46 | Unit Price | Int | Not Null |  |  |
| 47 | User\_ Name | Varchar(20) | Primary Key |  |  |

**3.5 Class Diagram**



**3.6 Use case Diagram**

**3.6.1 Customer**



**3.6.2 Admin**

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**3.7 Sequence Diagram**

3.7.1 Login\_ Sequence



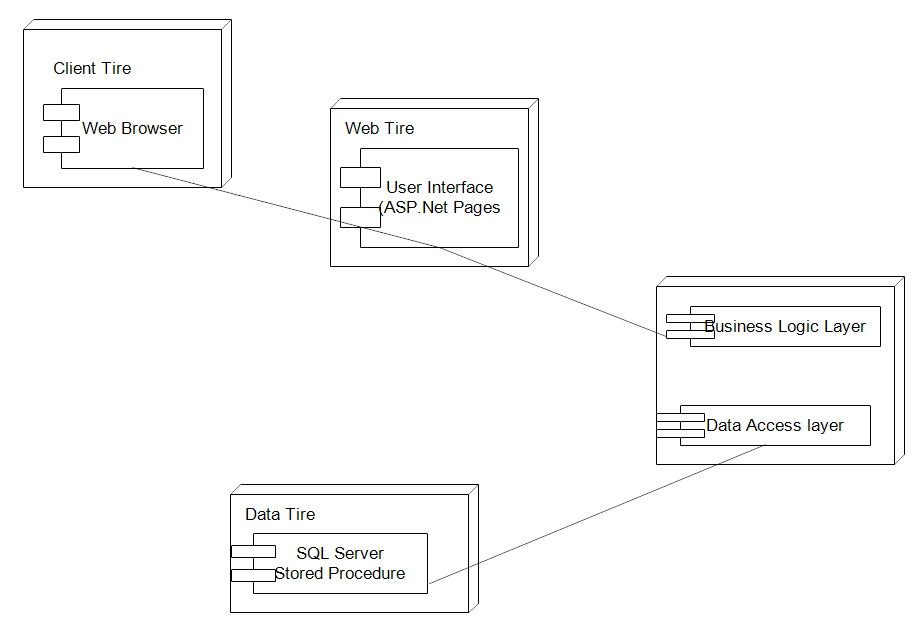
3.7.2 Admin Sequence



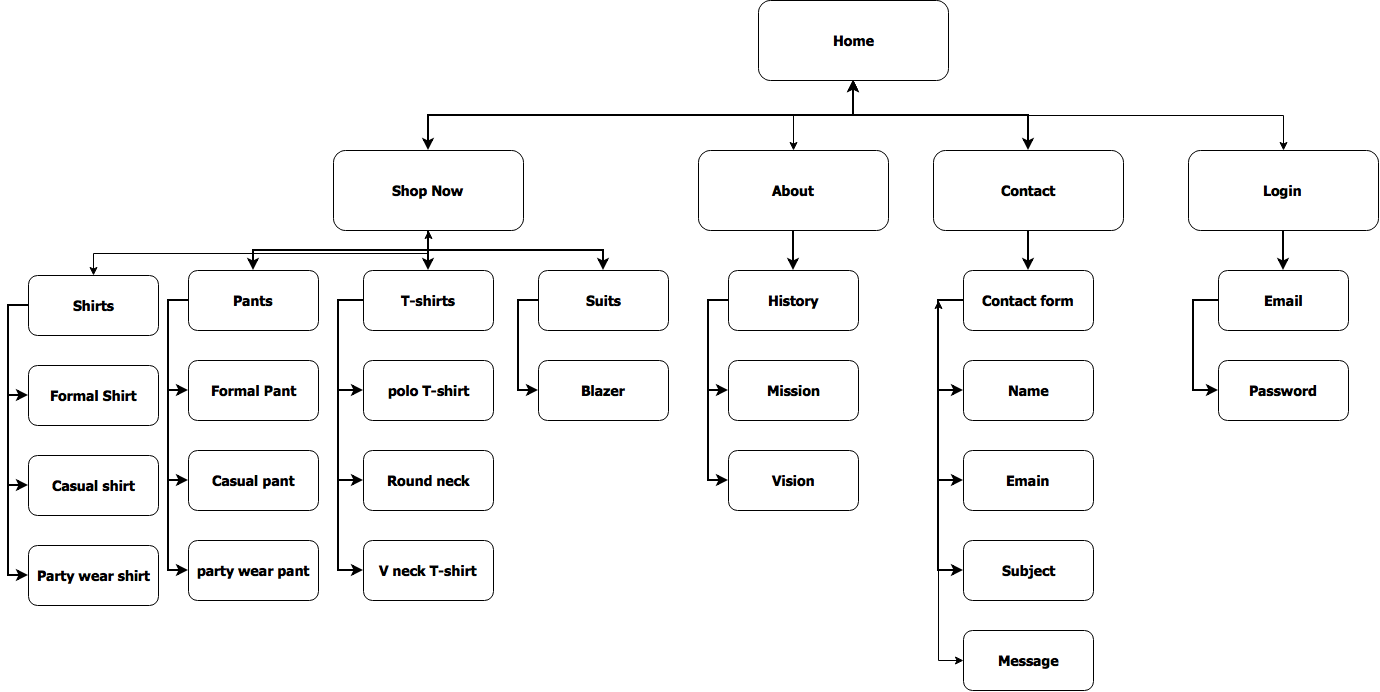
**3.8 Activity Diagram**

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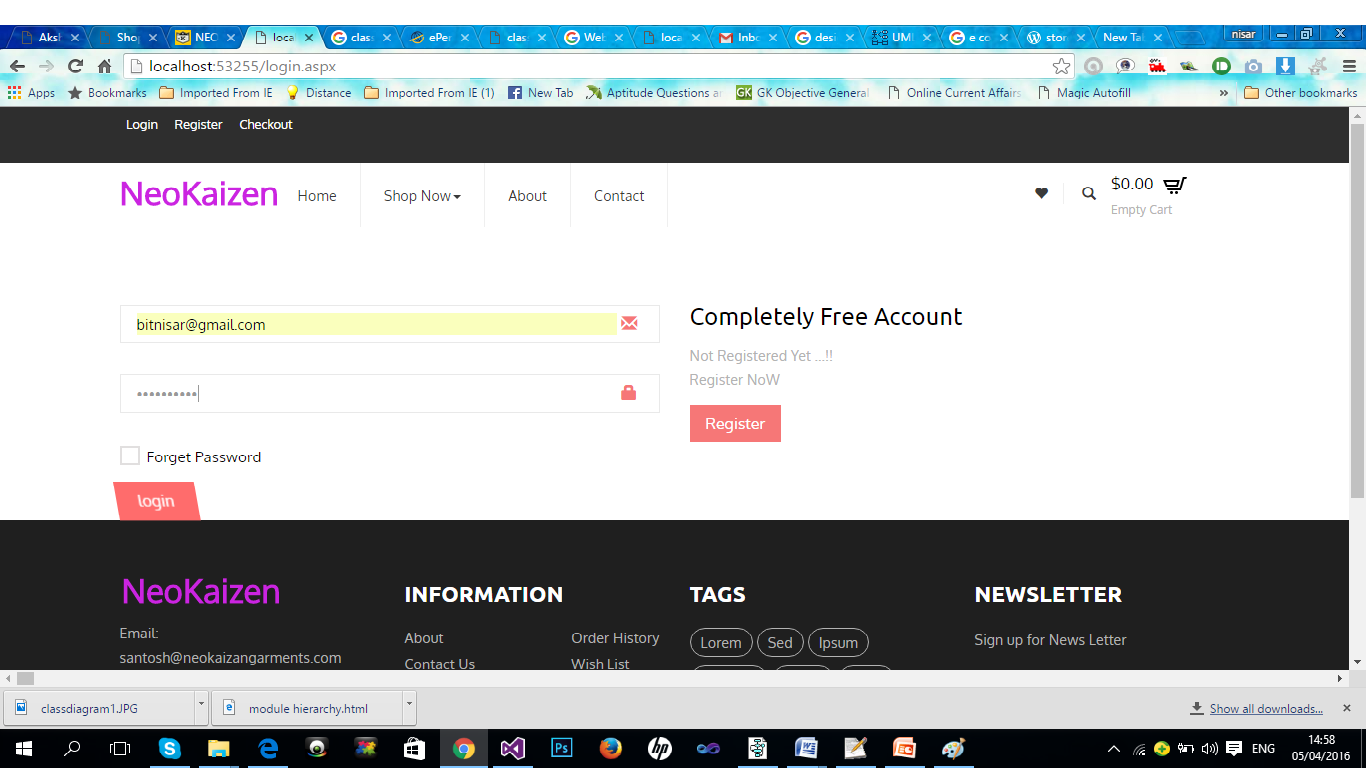
* 1. **Component Diagram**



* 1. **Deployment Diagram**
  2. **Web Site Map Diagram**

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* 1. **User Interface Design (I/O Screens)**
     1. **Login screen**

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* 1. **Test Procedures and Implementation**

**1. Introduction**

Neo Kaizen Garments and tailoring system is a web application system using 3-tier client server application framework.

The goal of this document is to develop a test plan for online tailoring and garments stitching System. Here I have defined all the procedures and activities required to prepare for testing of the functionality of the system which are specified in a document.

**2. Objectives**

Software testing is one of the major processes of system development. The objective of the testing is to ensure that the system confirms to its requirements specification and the system implementation has met the expectations of the customer. This test plan defines the activities to perform testing and to identify the various risk and contingencies involved in testing. It also defines the test deliverables documents.

**3. Scope**

Here we considered only some of the functionalities of the system for testing like Login, Sign Up, and Create Advertisement. Also I will use testing strategies like Unit testing and Integration testing.

**4. Test Strategy**

I have selected two stages of testing process, that is, Unit testing and Integration testing during the implementation of the software.

**Unit Testing:** Individual components are tested here. These components includes: Login, Sign Up, and Create Advertisement.

**Integration Testing:** This includes sub-system testing and system testing to test collections of modules which have been integrated into the sub-system and system.

**5. Functions to be tested**

·        Login

·        Sign Up

·        Create Advertisement

1. **Test Cases for Sign Up functionality**

**For valid inputs**

|  |  |
| --- | --- |
| **Test case ID**: NKGS\_Login \_1.0 | **Test designed by**: Nisar Ahmad |
| **Test Priority**: High | **Test designed Date**:1th April,2016 |
| **Module name**: Login | **Test executed by**: Nisar Ahamd |
| **Test Title**: validation of Login Module | **Test execution date**: 7th April,2015 |
| **Description**: This test case will validate the login functionality |  |
| **Precondition**: Website should be properly opened and the user should have valid username and password. | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step No.** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 1 | Enter url |  |  |  |  |
| 2 | Select Login type type.  Enter Username.  Enter Password. | User Type: User  User Name: bitnisar@gmail.com  Password: 12345678 |  |  |  |
| 3 | Click on Login button |  | It should navigate user to Profile Home Page. | It navigates user to Profile Home Page. | Pass |
| **Post Condition**: User will be navigated to Admin Home page | | | | | |

**For invalid inputs**

|  |  |
| --- | --- |
| **Test case ID**: NKGS\_Login\_2.0 | **Test designed by**: Nisar Ahmad |
| **Test Priority**: High | **Test designed Date**:1rd April,2015 |
| **Module name**: Login | **Test executed by**: Nisar Ahmad |
| **Test Title**: Validation of Login module | **Test execution date**: 7th April,2014 |
| **Description**: This test case will validate the login functionality |  |
| **Precondition**: Website should be properly launched and the user should have valid username and password. | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step No.** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| 1 | Enter url |  |  |  |  |
| 2 | Select Login type.  Enter Username.  Enter Password. | User Type: User  User Name:””(empty)  Password: “”(empty) |  |  |  |
| 3 | Click on Login button |  | It should display message “Invalid Login Details”, and navigated to login page. | It displays message “Invalid Login Details”, and navigate to login page. | Pass |
| **Post Condition**: User will be navigated to Same Login Page | | | | | |

**Chapter 4: USER MANUAL**

1. User Manual
2. Operations Manual / Menu Explanation

**Drawbacks and Limitations.**

**Proposed**

**Enhancements.**

**Conclusion.**

**Bibliography.**

**ANNEXURES:**

**ANNEXURE 1 : User Interface Screens**

**ANNEXURE 2 : Output Reports With Data**

**ANNEXURE 1: SAMPLE PROGRAM CODE** …………………… **102**