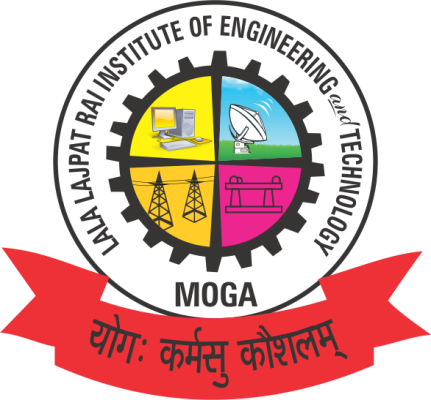
LALA LAJPAT RAI INSTITUTE OF ENGINEERING & TECHNOLOGY, MOGA

**A SIX MONTHS INDUSTRIAL TRAINING REPORT**

**OF**

**“BARCODE INVENTORY MANAGEMENT SYSTEM”**

****

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

**BACHELOR OF TECHNOLOGY**

**(INFORMATION TECHNOLOGY)**

SUBMITTED TO SUBMITTED BY

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**PUNJAB TECHNICAL UNIVERSITY,JALANDHAR(INDIA)**

**ACKNOWLEDGEMENT**

**“If practical knowledge carves and sharps the career of a person, practical experience polishes it and adds lustre and brilliance to it.”**

Here, I found this golden chance to acknowledge all those people who had blessed, encouraged and supported me technically and morally through all the phases of our project. I thank almighty God for giving me this opportunity to express gratitude to all those who helped me in my training. The report of “**BarCode Inventory Management System”** Undertakenby “**NetMax Technologies Chandigarh**” was a learning experience for me.

I would like to pay my immense gratitude to my venerable guide, **Mr. Kapil Partap (Faculty member)** and **Mr. Jagdeep Singh (Directore of Netmax)** of NetMax Tchnologies for providing me with full knowledge of JAVA and Android respectively . I am indebted to my guide for energizing my faith towards dignity of work.

I extend my fort right thanks to my family and friends for their moral support and encouragement throughout the training and project report.

**DECLARATION BY CANDIDATE**

I, hereby, certify that this work, on “BARCODE INVENTORY MANAGEMENT SYSTEM ”, is presented in partial fulfilment for the award of degree of B.Tech (IT) at Lala Lajpat Rai Institute of Engineering Technology, Moga . This report is an authentic record of my own work (observations at site) carried out during a period from Jan 2014 to May, 2014 under the supervision of “Mr. Kapil Partap” and “Mr. Jagdeep Singh”. The matter presented in this report has not been submitted by me in any other University / Institute for the award of B.Tech Degree.

**PROFILE OF THE COMPANY**

**Netmax Technologies,** an ISO 9001:2008 Certified Organization was established in 2001 with an aim to provide world class professional training and solutions in Advance Networking, Embedded Systems Design and IT Solutions.

We since then have been the prime institution in the field of Training and Education in Chandigarh and North India Region. With over 1000 students under going training every year in field of IT and Electronics we have proven our worth.

Only Quality can withstand the test of time in today’s highly demanding market and we expanding since our establishment from one office to five offices in four different cities since almost a decade ago proves our worth. With professionals hired to provide training to the student, we aim to give the real industry environment to the student so that they be ready for it. Netmax Technologies provides industrial training to BTech/MCA/BCA/Diploma students to make them proficient in following fields:

* Advance Networking Technologies(CISCO)
* JAVA development
* PHP Programming and Web Development
* Redhat (RHCE)
* Ubuntu Administration
* Microsoft System Administration( MCSE 2003 , MCITP 2008 )
* PLC and SCADA Automation Technologies
* .NET development
* Embedded systems
* Robotics

Few years back we have to write mobile application that hardly work on 6 – 7 devices mostly and now there are more than 250 android devices from various manufacturers. With 4 million android device activation each day this platform has already become the biggest implemented mobile operating system platform. Success of applications like Angry Birds, Paper Toss, Fruit Ninja and other Apps has drawn attention of many software development companies towards mobile development and particularly Android. We are first in region to launch Android training in chandigarh. In this course you will learn to create application, Implement basic UI, 2D graphics, Databases, Sensors,3D and multi-touch etc. You will also learn to create game loops which is one of most skill demanding applications.

ASP .NET is a set of Web development tools provided by Microsoft . Netmax Technologies Provide Industrial training in ASP .Net . Netmax Technologies pvt ltd is Market leader in .net application development and training in chandigarh . Web Applications are becoming most popular now-a-days . Now we can Edit Photos online, Manage records in database, Create Docs without installing Word processors etc. ASP.NET is a web framework that help us to create such applications. The main advantage of framework is that it can use features of operating system .

Netmax Technologies pvt ltd is providing industrial training in .net technologies since 2003 , it has trained more than 10, 000 Btech cse and it professionals in .net framework in chandigarh .Netmax is providing 100% practical course-ware in .net applications in chandigarh .

* **Industrial Training** **In** **Embedded System Design and Development:** (Netmax develop variety of Advance Embedded System projects for CSIO, TBRL  like Government organizations  as well as for Private Electronics Firms, lot of Custom development based on Arm uC, Atmel Avrs, Microchip 8/16/32 Platforms are being developed since 2001). Students from almost all Engineering Colleges  undergo  both six weeks and six months Industrial Training in Chandigarh in

Embedded Division. Netmax also give them placement assistance in various Electronics Development Companies in Chandigarh, Mohali, Panchkula, Baddi, New Delhi etc.

* **Robotics Design and Development:** ( Due to their vast Embedded Development Experience , Netmax also offer services for Robotics design and has developed Robotics Prototyping Platform For Govt and Private Sector as well as easy to learn platform for students and hobbyist. Robotics design and development also help students with engineering stream like ECE, EI, Electrical Engineering to improve their skills in Electronic System Logic Design, Sensor Development and Complete System Integration.
* **Industrial Training In Software Developent:** Netmax Technologies’ Software Division is Developing Softwares, website, Crm, doing Seo jobs Since 2004 by the name of Netmax Websolutions website: [Netmax.co.in](http://netmax.co.in/). Netmax Websolutions has vast variety of Web Developers that work on various projects 14 hours a day for their worldwide customers from USA, UK, Australia, New Zealand, Switzerland, Norway, France etc. Their expertise are Cake Php, Zend, CODEIGNITER, YII , PHP Frameworks, Cms like WordPress, joomla also Web designing in Html4, html5, Css  and search engine optimization  services.
* **Industrial Training** **In Advance Mobile Software Development:** Based on Android Software Development, Netmax develop various mobile software for its worldwide clients based on Android application development and is also providing android development training both for small duration 45 days , 3 months as well as six months Industrial Training. Android is good choice for industrial training in field of software development. As all over world brand wants Android Apps along with their online websites and number of Android Developers required for this field are rare.

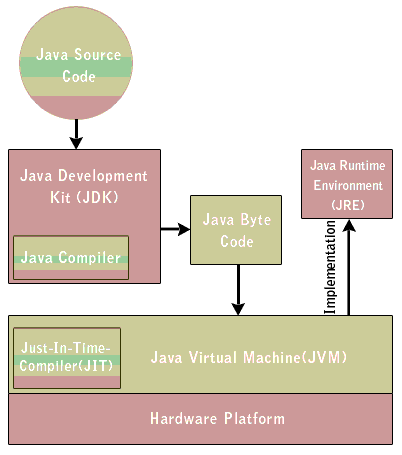
**INDEX**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No.** | **Content** | | **Page No.** |
| 1 | 1.1 Introduction to JAVA | | 8-13 |
|  | 1.2 | Features of JAVA | 8-10 |
|  | 1.3 | Front End Tool | 10-11 |
|  | 1.4 | Back End Tool | 12-13 |
| 2 | 2.1 Hardware & Software Requirements | | 14 |
|  | 2.2 | Hardware Requirements | 14 |
|  | 2.3 | Software Requirements | 14 |
| 3 | 3.1 Project Introduction | | 15-20 |
|  | 3.2 | Challenges | 15 |
|  | 3.3 | Drawbacks of Existing System | 15 |
|  | 3.4 | Advantages of Proposed System | 16 |
|  | 3.5 | Inventory Management | 16 |
|  | 3.6 | Types of Inventories | 16-17 |
|  | 3.7 | Effective Inventory Management | 17 |
|  | 3.8 | Features | 17 |
|  | 3.9 | Advantages | 17-18 |
|  | 3.10 | Inventory Management Problems | 18 |
|  | 3.11 | Challenges | 19 |
|  | 3.12 | Types of Barcode Basics | 19-20 |
| 4 | Data Flow Diagrams | | 21-22 |
| 5 | 5.1 Screenshots & Coding | | 23-64 |
|  | 5.2 | Database Snapshots | 23 |
|  | 5.3 | Project Snapshots | 24-64 |
| 6 | 6.1 Introduction To Android | | 65 |
|  | 6.2 | Android Operating System | 65 |
|  | 6.3 | Google Play | 65 |
|  | 6.4 | Security & Permissions | 65 |
| 7 | 7.1 Android Components | | 66 |
|  | 7.2 | Activity | 66 |
|  | 7.3 | Views and ViewGroups | 66 |
|  | 7.4 | Intents | 66 |
|  | 7.5 | Services | 66 |
|  | 7.6 | Content Provider | 66 |
| 8 | Bibliography | | 67 |

**CHAPTER-1**

**1.1 INTRODUCTION TO JAVA**

Java is a high-level, third generation programming language, like C, Fortran and many others. You can use Java to write computer applications that crunch numbers, process words, play games, store data or do any of the thousands of other things computer software can do. The Java language was developed at Sun Microsystems in 1991 as part of a research project to develop software for consumer electronics devices-television sets, VCRs, toasters, and the other sorts of machines you can buy at any department store. Java's goals at that time were to be small, fast, efficient, and easily portable to a wide range of hardware devices. Those same goals made Java an ideal language for distributing executable programs via the World Wide Web and also a general-purpose programming language for developing programs that are easily usable and portable across different platforms.



**1.2 FEATURES OF JAVA:**

* Java Is Object Oriented

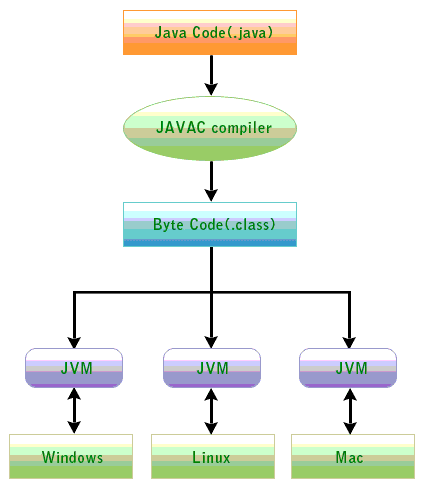
The object-oriented programming (OOP) technique is merely a way of organizing programs, and it can be accomplished using any language. Working with a real object-oriented language and programming environment, however, enables you to take full advantage of object-oriented methodology and its capabilities for creating flexible, modular programs and reusing code.

* Java is Dynamic

Java does not have an explicit link phase. Java source code is divided into .java files, roughly one per each class in your program. The compiler compiles these into .class files containing byte code. Each .java file generally produces exactly one .class file.

* Java Is Platform Independent

Platform independence-that is, the ability of a program to move easily from one computer system to another-is one of the most significant advantages that Java has over other programming languages.



* Java is High Performance

Java byte codes can be compiled on the fly to code that rivals C++ in speed using a "just-in-time compiler." Several companies are also working on native-machine-architecture compilers for Java. These will produce executable code that does not require a separate interpreter, and that is indistinguishable in speed from C++.

* Java is Multi-Threaded

Java is inherently multi-threaded. A single Java program can have many different threads executing independently and continuously. Three Java applets on the same page can run together with each getting equal time from the CPU with very little extra effort on the part of the programmer.

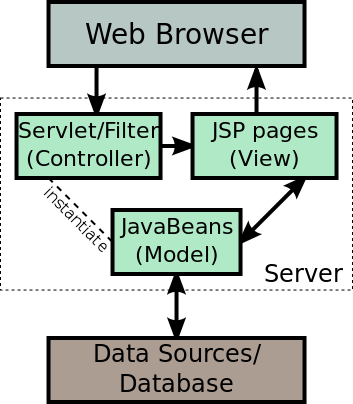
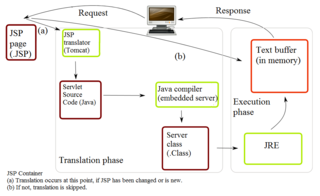
* Java is Garbage Collected

You do not need to explicitly allocate or deallocate memory in Java. Memory is allocated as needed, both on the stack and the heap, and reclaimed by the *garbage collector* when it is no longer needed. There's no malloc(), free(), or destructor methods.

**1.3 Front end tool**

Front-end and back-end are terms used to characterize program interfaces and services relative to the initial user of these interfaces and services. (The "user" may be a human being or a program.).A "front-end" application is one that application users interact with directly.

**Here front end tools are:-**

* **JSP (Java Server Page):-**JSPs are the primary method in the Java EE platform for displaying dynamic Web pages. Special tags let Java code be included on the page as well as inserted into HTML statements without invalidating the HTML syntax
* **Servlet :-**A Java application that runs in a Web server or application server and provides server-side processing such as accessing a database and e-commerce transactions. Widely used for Web processing, servlets are designed to handle HTTP requests (get, post, etc.) and are the standard Java replacement for a variety of other methods, including CGI scripts, Active Server Pages (ASPs) and proprietary C/C++ plug-ins for specific Web servers (ISAPI, NSAPI). 

* **Filter:-**Front-end filters may be used in RF environments where they are many strong interfering signals, such as locations near high power broadcasting transmitters or multi-transmitter contest stations.

**Filters can perform many different types of functions. We'll discuss examples of the italicized items in this paper:**

* Authentication-Blocking requests based on user identity.

* Logging and auditing-Tracking users of a web application.

* Image conversion-Scaling maps, and so on.

* Data compression-Making downloads smaller.

* Localization-Targeting the request and response to a particular locale.

* **Session:-**In telecommunication, a session is a series of interactions between .two communication end points that occur during the span of a single connection.
* **JQUERY**:-Oracle (in ancient Greece, someone in touch with the deities; from Latin, oraculum or divine announcement) says it is the world's leading supplier of software for information management but it is best known for its sophisticated relational database products (notably Oracle9i), which are used in Fortune 1000 corporations and by many of the largest Web sites. Oracle's relational database was the world's first to support the Structured Query Language (SQL), now an industry standard.

**1.4 Back end tool**

A "back-end" application or program serves indirectly in support of the front-end services, usually by being closer to the required resource or having the capability to communicate with the required resource. The back-end application may interact directly with the front-end or, perhaps more typically, is a program called from an intermediate program that mediates front-end and back-end activities.

**Here back end tools**

* **Db2:-**DB2 is a family of relational database management system (RDBMS) products from IBM that serve a number of different operating system platforms. According to IBM, DB2 leads in terms of database market share and performance. Although DB2 products are offered for UNIX-based systems and personal computer operating systems, DB2 trails Oracle's database products in UNIX-based systems and Microsoft's Access in Windows systems.
* **MySQL**:-MySQL runs on virtually all platforms, including Linux, UNIX, and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web-based applications and online publishing and is an important component of an open source enterprise stack called LAMP. LAMP is a Web development platform that uses Linux as the operating system, Apache as the Web server, and MySQL as the relational database management system and PHP as the object-oriented scripting language. (Sometimes Perl or Python is used instead of PHP.)

**Description**

MySQL is the most popular open source Relational Database Management System. The SQL phrase stands for Structured Query Language.

MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack. MySQL is a relational database management system, and ships with no GUI tools to administer. It manages databases or manages data contained within the databases.

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. It is becoming popular because of many good reasons:

* MySQL is released under an open-source license. So you have nothing to pay to use it.
* It is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
* It uses a standard form of the well-known SQL data language.
* It works on many operating systems and with many languages including PHP, C, C++, and JAVA etc.
* It works very quickly and works well even with large data sets.
* It is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.
* It supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4 GB, but you can increase this to a theoretical limit of 8 million terabytes.

**CHAPTER - 2**

**2.1 HARDWARE & SOFTWARE REQUIREMENTS**

**SERVER:-**Apache Tomcat, GlassFish.

**2.2 Hardware Requirements:-**

* CPU P IV and above.
* RAM 1GB and above
* HARD DISK 100GB
* UPS
* DVD

**2.3 Software Requirements:-**

* OS : Windows XP/2000/7/8 or Linux or MAC
* Apache Tomcat 5+
* Database Oracle 10g
* Development Tools :-Net beans/Eclipse, Dreamweaver
* JDK 1.5+
* Browser: Internet Explorer, Mozilla Firefox.

**CHAPTER-3**

**3.1 PROJECT INTRODUCTION**

The project assigned is an “BARCODE INVENTORY MANAGEMENT SYSTEM” using android mobile for barcode reading” advance java and Hibernate Frame work for secure Server Connection with Web Service Interaction. The main objective of the project is to provide a common platform to both the Dealer and employers and Customer to come together and help each other.

**3.2 Challenges**

* Item coming for Demo then Returned
* Item Purchased
* Item Out/In for Repairs
* Detailed study of Inventory model is required
* Inventory movement is monitored and tracked
* To help security staff to easily locate inventory
* To stop fraud
* To smoothly transfer ownership of products.
* Item issued / returned
* Item for

**3.3 Drawback of Existing System**

* The existing system is platform dependent .That means if the coding is done for window XP then it is only able to work on window XP.
* The existing system is not secure enough.
* There is problem regarding virus which creates problems in system.
* In existing system we have to purchase a scanner device For barcode reading
* Its time consuming system.

**3.4 Advantage of Proposed System**

* This system is totally java based. So this system is platform independent which means this system can work on any windows even in Linux.
* This system is java based. In java we don’t have pointers which mean our system is totally secure.
* This system is java based so there is no any problem regarding virus which is also an
* good point.
* In this system we can scan a product by using Android Phone for barcode reading.
* This system is time saving and less costly than existing ones.
* Better component design to get better performance at peak time.
* Flexible service based architecture will be highly desirable for future extension.

**3.5 INVENTORY MANAGEMENTO**

* Generate Barcodes & Print Barcodes.
* Apply barcode on IN or OUT items.
* Take snapshot by Camera.
* Scan barcodes on IN OUT and match records.
* Image of item is scanned and stored.
* Print Barcode and attach on item.
* Add owner of Item.
* Add recipient of Item.
* Mark entry as permanent / temporary.
* Scan Barcode on return.
* Update associated Records.
* Display records based on User.
* See all OUT items.
* See all IN items.

**3.6 Types of Inventories**

* Raw materials
* Purchased parts
* Process Equipments
* Finished projects inventories
* Replacement parts, tools, & supplies
* Goods-in-transit to Department or customers

**3.7 Effective Inventory Management**

* A system to keep track of inventory
* Easy Management
* Knowledge of product location
* A classification system

**3.8 FEATURES**

* **Barcode**: Using android mobile as a scanner for Barcode reading, instead of using scanner device. We can also use web cam for barcode reading.
* **Asset tracking**: When a product is in a [warehouse](http://en.wikipedia.org/wiki/Warehouse) or store, lot number or revision number.

### Service management: Companies that are primarily service-oriented rather than product-oriented can use inventory management software to track the cost of the materials they use to provide services, such as cleaning supplies.

### Product identification: Barcodes are often the means whereby data on products and orders is inputted into inventory management software. A [barcode reader](http://en.wikipedia.org/wiki/Barcode_reader) is used to read barcodes and look up information on the products they represent.

## 3.9 ADVANTAGES

There are several advantages to using inventory management software in a business setting.

### Cost savings: In many cases, a company’s inventory represents one of its largest investments, along with its [workforce](http://en.wikipedia.org/wiki/Workforce) and locations. Inventory management software helps companies cut [expenses](http://en.wikipedia.org/wiki/Expense) by minimizing the amount of unnecessary parts and products in [storage](http://en.wikipedia.org/wiki/Warehouse). It also helps companies keep lost sales to a minimum by having enough stock on hand to meet demand.

### Increased efficiency: Inventory management software often allows for automation of many inventory-related tasks. For example, software can automatically collect data, conduct [calculations](http://en.wikipedia.org/wiki/Calculations), and create records. This not only results in time savings, cost savings, but also increases business efficiency.

### Warehouse organization: Inventory management software can help distributors, [wholesalers](http://en.wikipedia.org/wiki/Wholesale), manufacturers and retailers optimize their warehouses. If certain products are often sold together or are more popular than others, those products can be grouped together or placed near the delivery area to speed up the process of picking. Company executives can usually access the software through a [mobile device](http://en.wikipedia.org/wiki/Mobile_device), [laptop](http://en.wikipedia.org/wiki/Laptop) or PC to check current inventory numbers.

### Updated data: Up-to-date, [real-time data](http://en.wikipedia.org/wiki/Real-time_data) on inventory conditions and levels is another advantage inventory management software gives companies. Company executives can usually access the software through a [mobile device](http://en.wikipedia.org/wiki/Mobile_device), [laptop](http://en.wikipedia.org/wiki/Laptop) or PC to check current inventory numbers.

### Data security: With the aid of restricted user rights, company managers can allow many employees to assist in inventory management. They can grant employees enough. By analysing such data, companies can control inventory levels and maximize the use of warehouse space. Furthermore, firms are more prepared for the demands and supplies of the market, information access to receive products, make orders, transfer products and do other tasks without compromising company [security](http://en.wikipedia.org/wiki/Security). This can speed up the inventory management process and save managers’ time.

### Insight into trends: Tracking where products are stocked, which suppliers they come from, and the length of time they are stored is made possible with inventory management software. By analysing such data, companies can control inventory levels and maximize the use of warehouse space. Furthermore, firms are more prepared for the demands and supplies of the market, especially during special circumstances such as a peak season on a particular month firms are also able to gather important data that may be put in a model for it to be analyzed.

**3.10 Inventory Management Problems**

* Manual Entry Required
* Time consuming
* No location track
* Not easy to search Information

**3.11 Challenges**

* Detailed study of Inventory model is required
* Inventory movement is monitored and tracked
* To help security staff to easily locate inventory
* To stop fraud
* To smoothly transfer ownership of products.
* Item coming for Demo then Returned
* Item Purchased
* Item Out/In for RepaiR

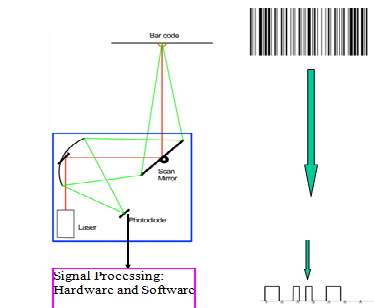
**3.12 Barcode basics**

**Types Of Barcode**

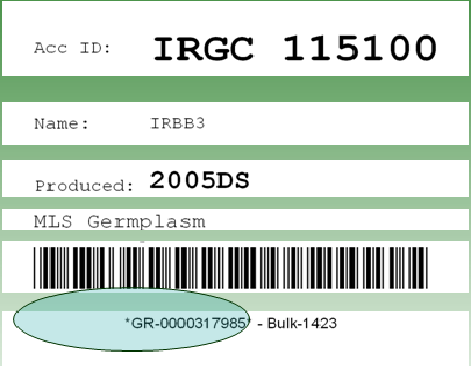
1. 1D barcode
   * UPC
   * Code 39
   * Code 128
2. 2D barcode
   * PDF 417
   * MaxiCode

**How a laser scanner works**

* A laser spot is scanned across the bar code symbol that is to be read.
* The light reflected from the symbol is directed to a photodiode where it is converted from optical energy to electrical current.
* The signal is processed through both hardware and software, and the information it carries is extracted.



**Barcode Label**

****

**CHAPTER 4**

**4.1 DATA FLOW DIAGRAMS**

Data Flow Diagrams are used to represent the flow of data from one part of the system to another part of the system. Mainly these DFDs are used to represent the existing system. We can divide the study of DFDs into 3 parts.

* Notations
* Rules
* Levels

**Notation**

We use following notations in Data Flow Diagrams:

- Rectangle, Source or destination is defined

-Arrow, shows data flow



-Ellipse, represents a Process that transforms incoming

data into outgoing flow



-Open rectangle, which shows data stores

Database.

**Rules**

While drawing Data Flow Diagrams we follow some rules. The following should not be violated.

* There should not be any data flow between two external entities directly.
* There should not be any data flow between two data stores directly.

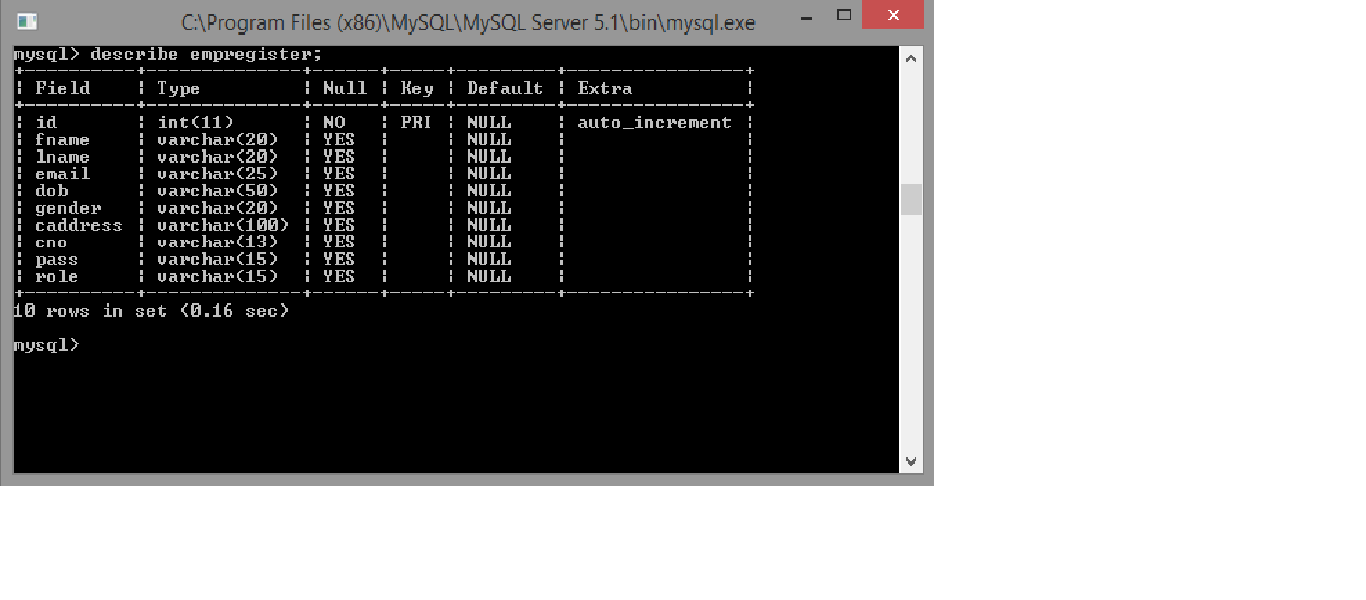
**Data Flow Diagram**

**CHAPTER 5**

**5.1 SCREENSHOTS & CODING**

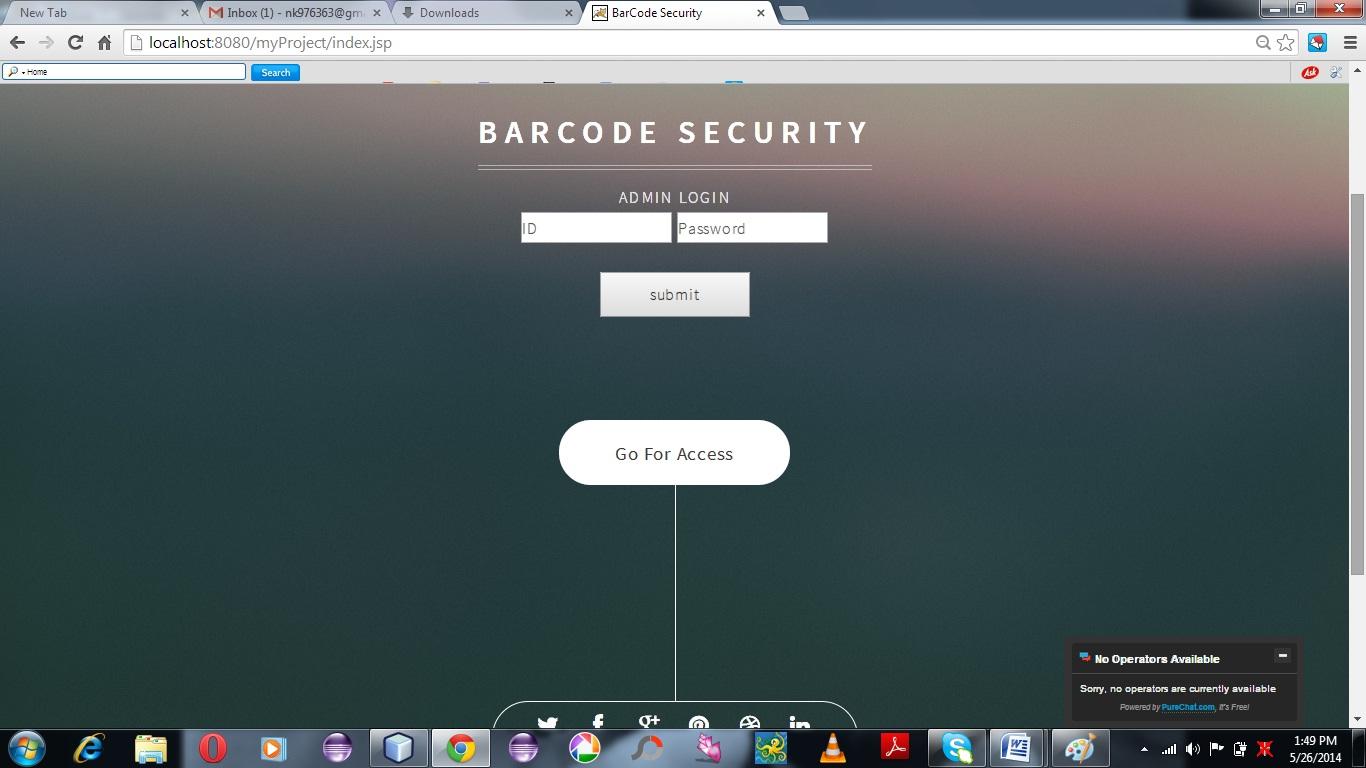
**5.2 Database snapshots**

**Table of Registration**

****

**5.3 Project snapshots**

**Home Page**

****

**JSP Coding**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Barcode Inventory Management</title>

</head>

<body bgcolor="8F7365">

<center><div style="margin-top: 180px; width: 300px; height: 250px; border:groove; border-radius: 15px; background-image: url(images/templatemo\_body.jpg);" >

<h1>

<font color="black">Security Admin! </font> </h1>

<form action="adminlogin">

<font color="red">

<%

String err=(String) request.getAttribute("error");

if(err!=null)

{

out.println("Invalid User !");

}

%>

</font>

<br>

Enter ID : <input type="text" name="id" placeholder="Enter First Name" class="rt"/><br><br>

Password : <input type="password" name="pass" placeholder="Enter Last Name" class="rt"/>

<br>

<input type="submit" value="Login">

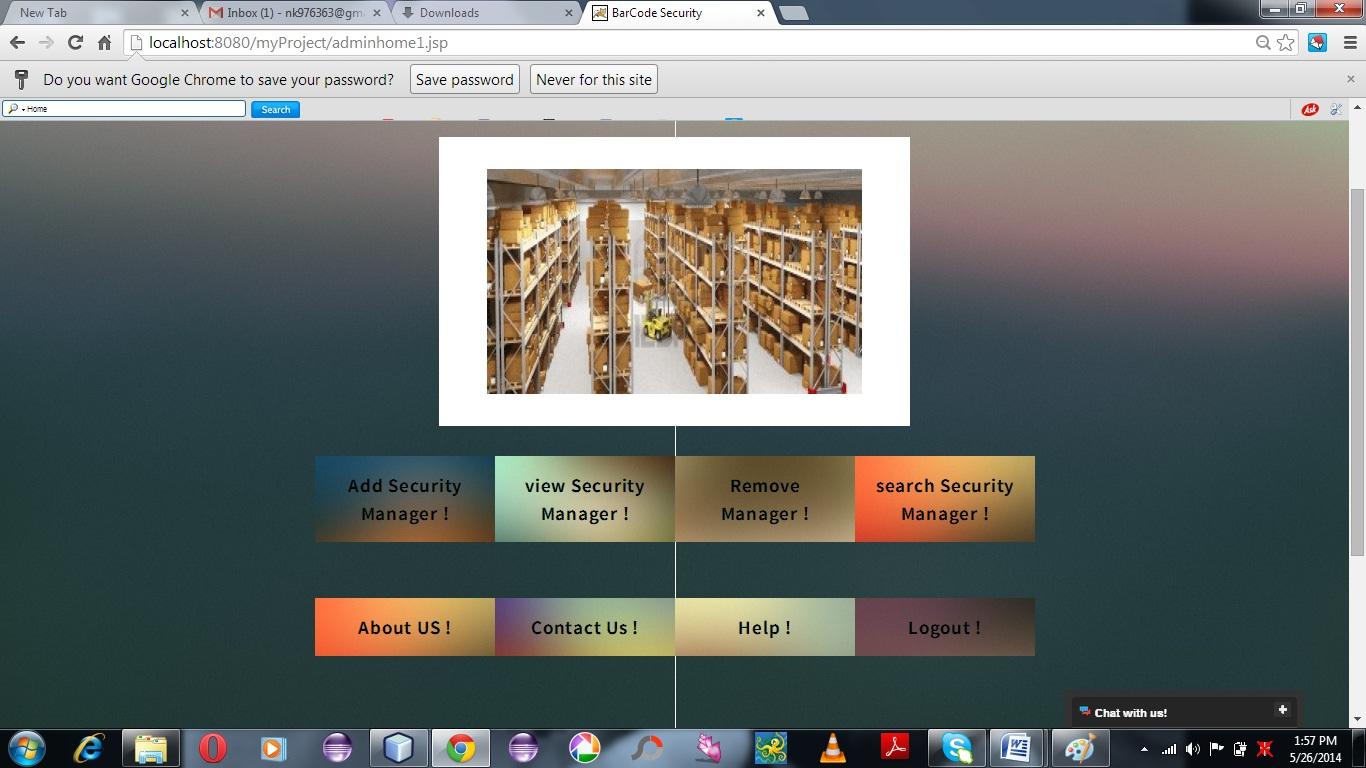
</form> </div>

</center>

</body>

</html>

**Index Page:**

****

**JSP Coding**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Barcode Inventory Management</title>

<meta name="keywords" content="shoes store, free template, ecommerce, online shop, website templates, CSS, HTML" />

<meta name="description" content="Shoes Store is a free ecommerce template provided by templatemo.com" />

<link href="templatemo\_style.css" rel="stylesheet" type="text/css" />

<link rel="stylesheet" href="nivo-slider.css" type="text/css" media="screen" />

<link rel="stylesheet" type="text/css" href="css/ddsmoothmenu.css" />

<script type="text/javascript" src="js/jquery.min.js"></script>

<script type="text/javascript" src="js/ddsmoothmenu.js">

</script>

<script type="text/javascript">

ddsmoothmenu.init({

mainmenuid: "top\_nav",

orientation: 'h',

classname: 'ddsmoothmenu',

contentsource: "markup"

})

</script>

</head><body>

<div id="templatemo\_body\_wrapper">

<div id="templatemo\_wrapper">

<div id="templatemo\_header">

<div id="site\_title"><h1><a href="#"></a></h1></div>

<div id="header\_right">

<p>

<a href="#">Admin Account</a> | <a href="register.jsp"> Register</a> | <a href="#">Login</a> | <a href="#"> Products</a> | <a href="#">T & C</a></p>

<p>

Secure Your Business</p>

</div>

<div class="cleaner"></div>

</div>

<div id="templatemo\_menubar">

<div id="top\_nav" class="ddsmoothmenu">

<ul>

<li><a href="index.html" class="selected">Home</a></li>

<li><a href="#">About</a>

<ul>

<li><a href="#">Products</a></li>

<li><a href="#">Head Office</a></li>

<li><a href="#">Dealers</a></li>

</ul>

</li>

<li><a href="#">FAQs</a></li>

<li><a href="#">Stock</a></li>

<li><a href="ContactMe.jsp">Contact Us</a></li>

</ul>

<br style="clear: left" />

</div>

<div id="templatemo\_search">

<form action="#" method="get">

<input type="text" value=" " name="keyword" id="keyword" title="keyword" onfocus="clearText(this)" onblur="clearText(this)" class="txt\_field" />

<input type="submit" name="Search" value=" " alt="Search" id="searchbutton" title="Search" class="sub\_btn" />

</form>

</div>

</div>

<div id="templatemo\_main">

<div id="sidebar" class="float\_l">

<div class="sidebar\_box"><span class="bottom"></span>

<h3>Categories</h3>

<div class="content">

<ul class="sidebar\_list">

<li class="first"><a href="register.jsp">Add Security Manager</a></li>

<li><a href="product.jsp">Products</a></li>

<li><a href="#">Purchase Products</a></li>

<li><a href="#">Get Info</a></li>

<li><a href="#">Problem</a></li>

<li><a href="#">New Security Code</a></li>

<li><a href="#"></a>Forgot Code !</li>

<li><a href="#">Request</a></li>

<li><a href="#">Payment Info</a></li><li><a href="#">New Products </a></li>

<li><a href="#">Get Area Code</a></li>

<li><a href="#">Queries</a></li>

<li><a href="#">Our Moto</a></li>

<li><a href="#"></a>Location</li>

<li class="last"><a href="#">Help !</a></li>

</ul>

</div>

</div>

</div>

<div id="content" class="float\_r">

<div id="slider-wrapper">

<div id="slider" class="nivoSlider">

<img src="images/slider/02.jpg" alt="" />

<a href="#"><img src="images/slider/01.jpg" alt="" title="This is an example of a caption" /></a>

<img src="images/slider/03.jpg" alt="" />

<img src="images/slider/04.jpg" alt="" title="#htmlcaption" />

</div>

<div id="htmlcaption" class="nivo-html-caption"><strong>This</strong> is an example of a <em>HTML</em> caption with <a href="#">a link</a>.

</div>

</div>

<script type="text/javascript" src="js/jquery-1.4.3.min.js"></script>

<script type="text/javascript" src="js/jquery.nivo.slider.pack.js"></script>

<script type="text/javascript">

$(window).load(function() {

$('#slider').nivoSlider();

});

</script>

<h1>Welcome Admin</h1>

<p style="font-size: medium">

Inventory Management Systems is an application to track the sales and available inventory. This system communicates with suppliers in near real-time and receive and incorporate other data, such as seasonal demand. System is flexible enough, allowing for a merchant?s intuition and shows the owner when it?s time to reorder and how much to purchase. This system has following modules:

<br>

Inventory Control Management<br>

Contact Management<br>

Accounting Management<br>

Manufacturing Management<br>

Purchase Management<br>

Sales Management<br>

Shipping and Receiving Management<br>

Reports

</font>

</p>

</stron>

</div>

<div class="cleaner"></div>

</div>

<div id="templatemo\_footer"><p><a href="#">Home</a> | <a href="#">Products</a> | <a href="#">About</a> | <a href="#">FAQs</a> | <a href="#">Checkout</a> | <a href="#">Contact Us</a>

</p>

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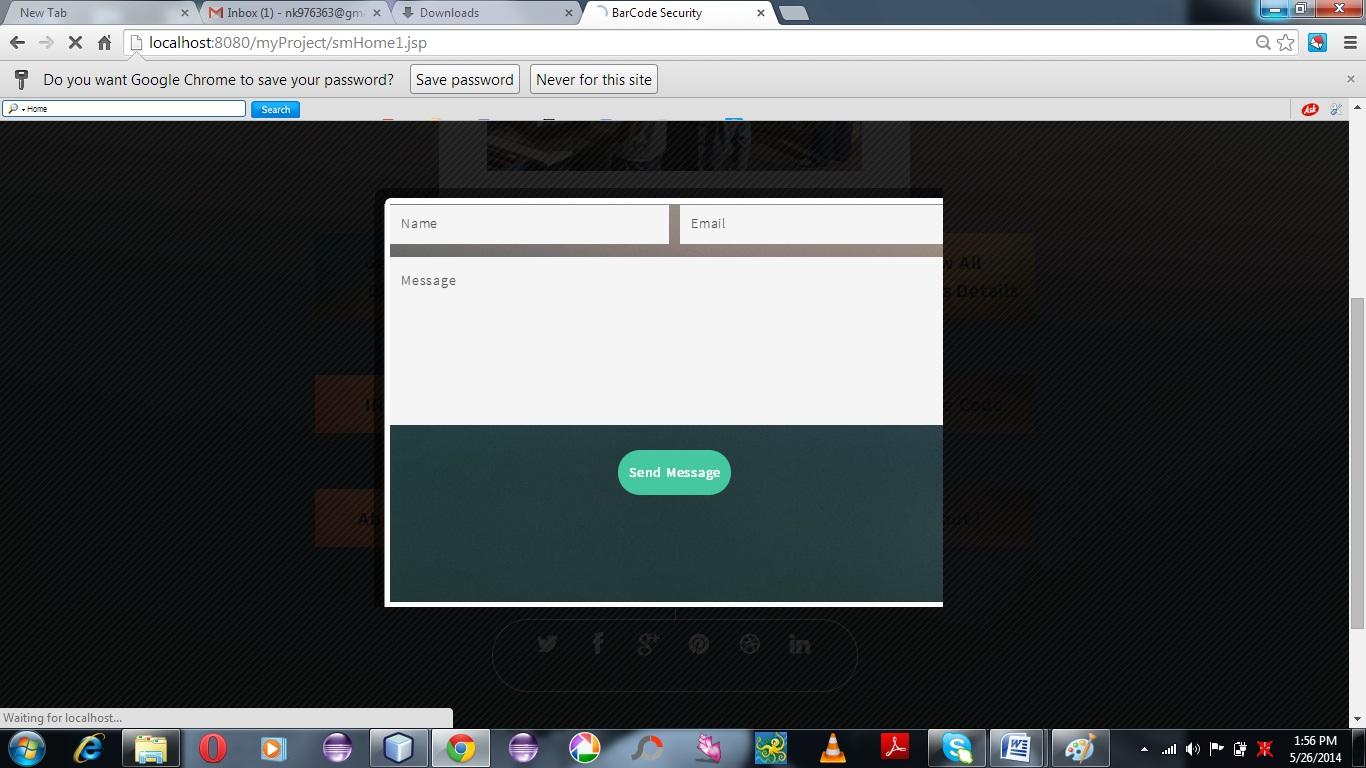
</div>

</div>

</div></body>

</html>

**Contact Us Page**

****

**JSP Coding**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Barcode Inventory Management</title>

<meta name="keywords" content="shoes store, free template, ecommerce, online shop, website templates, CSS, HTML" />

<meta name="description" content="Shoes Store is a free ecommerce template provided by templatemo.com" />

<link href="templatemo\_style.css" rel="stylesheet" type="text/css" />

<link rel="stylesheet" href="nivo-slider.css" type="text/css" media="screen" />

<link rel="stylesheet" type="text/css" href="css/ddsmoothmenu.css" />

<script type="text/javascript" src="js/jquery.min.js"></script>

<script type="text/javascript" src="js/ddsmoothmenu.js">

</script>

<script type="text/javascript">

ddsmoothmenu.init({

mainmenuid: "top\_nav",

orientation: 'h',

classname: 'ddsmoothmenu',

contentsource: "markup"

})

</script>

</head>

<body>

<div id="templatemo\_body\_wrapper">

<div id="templatemo\_wrapper">

<div id="templatemo\_header">

<div id="site\_title"><h1><a href="#"></a></h1></div>

<div id="header\_right">

<p>

<a href="#">Admin Account</a> | <a href="register.jsp"> Register</a> | <a href="#">Login</a> | <a href="#"> Products</a> | <a href="#">T & C</a></p>

<p>  
Secure Your Business

</p>

</div>

<div class="cleaner"></div>

</div>

<div id="templatemo\_menubar">

<div id="top\_nav" class="ddsmoothmenu">

<ul>

<li><a href="index.html" class="selected">Home</a></li>

<li><a href="#">About</a>

<ul>

<li><a href="#">Products</a></li>

<li><a href="#">Head Office</a></li>

<li><a href="#">Dealers</a></li>

</ul></li>

<li><a href="#">FAQs</a></li>

<li><a href="#">Stock</a></li><li><a href="ContactMe.jsp">Contact Us</a></li></ul>

<br style="clear: left" />

</div>

<div id="templatemo\_search">

<form action="#" method="get"><input type="text" value=" " name="keyword" id="keyword" title="keyword" onfocus="clearText(this)" onblur="clearText(this)" class="txt\_field" />

<input type="submit" name="Search" value=" " alt="Search" id="searchbutton" title="Search" class="sub\_btn" />

</form>

</div>

</div>

<div id="templatemo\_main">

<div id="sidebar" class="float\_l">

<div class="sidebar\_box"><span class="bottom"></span>

<h3>Categories</h3>

<div class="content">

<ul class="sidebar\_list">

<li class="first"><a href="register.jsp">Add Security Manager</a></li>

<li><a href="product.jsp">Products</a></li>

<li><a href="#">Purchase Products</a></li>

<li><a href="#">Get Info</a></li>

<li><a href="#">Problem</a></li>

<li><a href="#">New Security Code</a></li>

<li><a href="#"></a>Forgot Code !</li>

<li><a href="#">Request</a></li>

<li><a href="#">Payment Info</a></li>

<li><a href="#">New Products </a></li>

<li><a href="#">Get Area Code</a></li>

<li><a href="#">Queries</a></li>

<li><a href="#">Our Moto</a></li>

<li><a href="#"></a>Location</li>

<li class="last"><a href="#">Help !</a></li>

</ul>

</div>

</div>

<div class="sidebar\_box"><span class="bottom"></span>

<h3>Best Dealers </h3>

<div class="content">

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Karnal Dealer</a></h4>

<p class="price">2.0 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Chandigarh Shivam Dealer</a></h4>

<p class="price">1.7 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Guhwati Dealer</a></h4>

<p class="price">1.5 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Pune Dealer</a></h4>

<p class="price">1.2 Lac</p>

<div class="cleaner"></div>

</div>

</div>

</div>

</div>

<div id="content" class="float\_r">

<h1>Contact Us</h1>

<div class="content\_half float\_l">

<p>Etiam eget leo nisl. Morbi magna, lobortis condimentum eu, ultrices a lacus.</p>

<div id="contact\_form">

<form method="post" name="contact" action="#">

<label for="author">Name:</label> <input type="text" id="author" name="author" class="required input\_field" />

<div class="cleaner h10"></div>

<label for="email">Email:</label> <input type="text" id="email" name="email" class="validate-email required input\_field" />

<div class="cleaner h10"></div>

<label for="phone">Phone:</label> <input type="text" name="phone" id="phone" class="input\_field" />

<div class="cleaner h10"></div>

<label for="text">Message:</label> <textarea id="text" name="text" rows="0" cols="0" class="required"></textarea>

<div class="cleaner h10"></div>

<input type="submit" class="submit\_btn" name="submit" id="submit" value="Send" /> </form>

</div>

</div>

<div class="content\_half float\_r">

<h5>Primary Office</h5>

Netmax Technologies <br />

SCO : 118-120 sec-34 A<br />

Chandigarh (india) <br /><br />

Phone: 0172-4644644<br/>

Email:Training@netmaxtechnologies.com <a href="http://www.netmaxtechnologies.com">[Training@netmaxtechnologies.com</a><br/](about:blank)>

<div class="cleaner h40"></div>

<h5>Secondary Office</h5>

Netmax Technologies <br />

SCO : 198 sec-34 A<br />

Chandigarh (india) <br /><br />

Phone: 0172-4346047<br/>

Email:Training@netmaxtechnologies.com

<ahref="http://www.netmaxtechnologiescom">[Training@netmaxtechnologies.com</a><br/](about:blank)>

<br />

</div>

<div class="cleaner h40"></div>

<iframe width="680" height="350" frameborder="0" scrolling="no" marginheight="0" marginwidth="0" src="https://maps.google.co.in/maps?hl=en&tab=wl"></iframe>

</div>

<div class="cleaner"></div>

</div>

<div id="templatemo\_footer">

<p><a href="#">Home</a> | <a href="#">Products</a> | <a href="#">About</a> | <a href="#">FAQs</a> | <a href="#">Checkout</a> | <a href="#">Contact Us</a>

</p>

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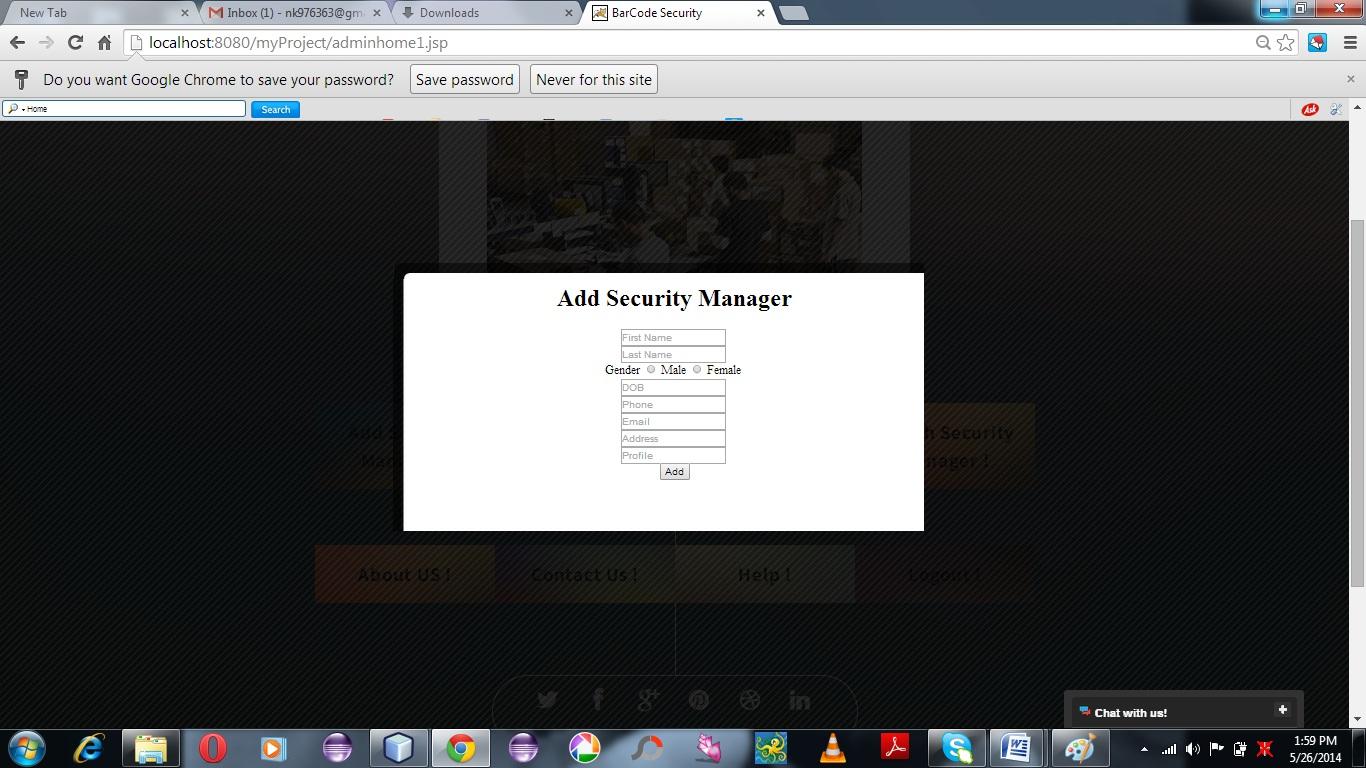
</div>

</div>

</div>

</body></html>

**Registeration Page**

****

**JSP Coding**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Barcode Inventory Management</title>

<meta name="keywords" content="shoes store, free template, ecommerce, online shop, website templates, CSS, HTML" />

<meta name="description" content="Shoes Store is a free ecommerce template provided by templatemo.com" />

<link href="templatemo\_style.css" rel="stylesheet" type="text/css" />

<link rel="stylesheet" href="nivo-slider.css" type="text/css" media="screen" />

<link rel="stylesheet" type="text/css" href="css/ddsmoothmenu.css" /><script type="text/javascript" src="js/jquery.min.js"></script>

<script type="text/javascript" src="js/ddsmoothmenu.js">

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Smooth Navigational Menu- (c) Dynamic Drive DHTML code library (www.dynamicdrive.com)

\* This notice MUST stay intact for legal use

\* Visit Dynamic Drive at http://www.dynamicdrive.com/ for full source code

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

</script>

<script type="text/javascript">

ddsmoothmenu.init({

mainmenuid: "top\_nav", //menu DIV id

orientation: 'h', //Horizontal or vertical menu: Set to "h" or "v"

classname: 'ddsmoothmenu', //class added to menu's outer DIV

//customtheme: ["#1c5a80", "#18374a"],

contentsource: "markup" //"markup" or ["container\_id", "path\_to\_menu\_file"]

})

</script>

</head>

<body>

<div id="templatemo\_body\_wrapper">

<div id="templatemo\_wrapper">

<div id="templatemo\_header">

<div id="site\_title"><h1><a href="#"></a></h1></div>

<div id="header\_right">

<p>

<a href="#">Admin Account</a> | <a href="#"> Register</a> | <a href="#">Login</a> | <a href="#"> Franchise </a> | <a href="#">T & C</a></p>

<p>

Secure Your Business

</p>

</div>

<div class="cleaner"></div>

</div> <!-- END of templatemo\_header -->

<div id="templatemo\_menubar">

<div id="top\_nav" class="ddsmoothmenu">

<ul>

<li><a href="index.html" class="selected">Home</a></li>

<li><a href="about.html">About</a>

<ul>

<li><a href="http://www.templatemo.com/page/1">Products</a></li>

<li><a href="http://www.templatemo.com/page/2">Head Office</a></li>

<li><a href="http://www.templatemo.com/page/3">Dealers</a></li>

</ul>

</li>

<li><a href="faqs.html">FAQs</a></li>

<li><a href="checkout.html">Stock</a></li>

<li><a href="contact.html">Contact Us</a></li>

</ul>

<br style="clear: left" />

</div> <!-- end of ddsmoothmenu -->

<div id="templatemo\_search">

<form action="#" method="get">

<input type="text" value=" " name="keyword" id="keyword" title="keyword" onfocus="clearText(this)" onblur="clearText(this)" class="txt\_field" />

<input type="submit" name="Search" value=" " alt="Search" id="searchbutton" title="Search" class="sub\_btn" />

</form>

</div>

</div> <!-- END of templatemo\_menubar -->

<div id="templatemo\_main">

<div id="sidebar" class="float\_l">

<div class="sidebar\_box"><span class="bottom"></span>

<h3>Categories</h3>

<div class="content">

<ul class="sidebar\_list">

<li class="first"><a href="register.jsp">Register</a></li>

<li><a href="products.jsp">Products</a></li>

<li><a href="#">Purchase Products</a></li>

<li><a href="#">Get Info</a></li>

<li><a href="#">Problem</a></li>

<li><a href="#">New Security Code</a></li>

<li><a href="#"></a>Forgot Code !</li>

<li><a href="#">Request</a></li>

<li><a href="#">Payment Info</a></li>

<li><a href="#">New Products </a></li>

<li><a href="#">Get Area Code</a></li>

<li><a href="#">Queries</a></li>

<li><a href="#">Our Moto</a></li>

<li><a href="#"></a>ßßßLocation</li>

<li class="last"><a href="#">Help !</a></li>

</ul>

</div>

</div>

<div class="sidebar\_box"><span class="bottom"></span>

<h3>Best Dealers </h3>

<div class="content">

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Karnal Dealer</a></h4>

<p class="price">2.0 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Chandigarh Shivam Dealer</a></h4>

<p class="price">1.7 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Guhwati Dealer</a></h4>

<p class="price">1.5 Lac</p>

<div class="cleaner"></div>

</div>

<div class="bs\_box">

<a href="#"><img src="images/templatemo\_image\_01.jpg" alt="image" /></a>

<h4><a href="#">Pune Dealer</a></h4>

<p class="price">1.2 Lac</p>

<div class="cleaner"></div>

</div>

</div>

</div>

</div>

<div id="content" class="float\_r">

<div id="slider-wrapper">

<div id="slider" class="nivoSlider">

<img src="images/slider/02.jpg" alt="" />

<a href="#"><img src="images/slider/01.jpg" alt="" title="This is an example of a caption" /></a>

<img src="images/slider/03.jpg" alt="" />

<img src="images/slider/04.jpg" alt="" title="#htmlcaption" />

</div>

<div id="htmlcaption" class="nivo-html-caption">

<strong>This</strong> is an example of a <em>HTML</em> caption with <a href="#">a link</a>.

</div>

</div>

<script type="text/javascript" src="js/jquery-1.4.3.min.js"></script>

<script type="text/javascript" src="js/jquery.nivo.slider.pack.js"></script>

<script type="text/javascript">

$(window).load(function() {

$('#slider').nivoSlider();

});

</script>

<h1>Register Here !</h1>

<form action="emp\_reg">

<center>

<input type="text" name="fname" placeholder="Enter First Name" class="rt"/><br><br>

<input type="text" name="lname" placeholder="Enter Last Name" class="rt"/><br><br>

<input type="email" name="email" placeholder="Enter Email ID" class="rt"/><br><br>

<input type="text" name="dob" placeholder="Enter DOB" class="rt"/><br><br>

</center>

Gender <center> Male <input type="radio" name="gender" value="Male"/> Female <input type="radio" name="gender" value="Female"/><br><br>

<textarea name="caddress" placeholder="Enter Company Address" style="width: 300px;"> </textarea><br><br>

<input type="text" name="cno" placeholder="Contact No." class="rt"/><br><br>

<input type="password" name="pass" placeholder="Enter Password" class="rt"/><br><br>

<input type="password" name="pass" placeholder="Confirm Password" class="rt"/><br><br>

<select name="mperiod" class="rt">

<option value="unknown">select Level</option>

<option value="1 Year">Admin</option>

<option value="2 Year">Non-Admin</option>

</select>

<br><br>

<input type="submit" value="Add Security Manager">

<br>

</center>

</form>

</strong>

</div>

<div class="cleaner"></div>

</div> <!-- END of templatemo\_main -->

<div id="templatemo\_footer">

<p><a href="#">Home</a> | <a href="#">Products</a> | <a href="#">About</a> | <a href="#">FAQs</a> | <a href="#">Checkout</a> | <a href="#">Contact Us</a>

</p>

Copyright © 2072 <a href="#">Your Company Name</a> | Designed by <a href="http://www.templatemo.com" target="\_parent">Free CSS Templates</a>

</div> <!-- END of templatemo\_footer -->

</div> <!-- END of templatemo\_wrapper -->

</div> <!-- END of templatemo\_body\_wrapper -->

</body>

</html>

**Admin login.java**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class adminlogin extends HttpServlet {

Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

@throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

String name=request.getParameter("id");

String pass=request.getParameter("pass");

if(name.equalsIgnoreCase("Admin") && pass.equals("admin"))

{

response.sendRedirect("index.jsp");

}

else

{

request.setAttribute("error", "Invalid User");

RequestDispatcher rd=request.getRequestDispatcher("home.jsp");

rd.forward(request, response);

}

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet adminlogin</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Servlet adminlogin at " + request.getContextPath() + "</h1>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

@throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

public String getServletInfo() {

return "Short description";

}// </editor-fold>

}

**Emp\_reg.java**

/\*

\* To change this template, choose Tools | Templates

\* and open the template in the editor.

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.util.Properties;

import javax.mail.Message;

import javax.mail.MessagingException;

import javax.mail.PasswordAuthentication;

import javax.mail.Session;

import javax.mail.Transport;

import javax.mail.internet.InternetAddress;

import javax.mail.internet.MimeMessage;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.swing.JOptionPane;

@author Tanu

\*/

public class emp\_reg extends HttpServlet {

@param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

String fname=request.getParameter("fname");

String lname=request.getParameter("lname");

String email=request.getParameter("email");

String dob=request.getParameter("dob");

String gender=request.getParameter("gender");

String caddress=request.getParameter("caddress");

String cno=request.getParameter("cno");

String pass=request.getParameter("pass");

String role=request.getParameter("role");

Connection con= factory.confac.getConnection();

Stringq="insertinto empregister(fname,lname,email,dob,gender,caddress,cno,pass,role) values(?,?,?,?,?,?,?,?,?)";

PreparedStatement ps= con.prepareStatement(q);

ps.setString(1, fname);

ps.setString(2, lname);

ps.setString(3, email);

ps.setString(4, dob);

ps.setString(5, gender);

ps.setString(6, caddress);

ps.setString(7, cno);

ps.setString(8, pass);

ps.setString(9, role);

ps.executeUpdate();

final String username="";

final String password="";

Properties props = new Properties()

props.put("mail.smtp.auth", "true");

props.put("mail.smtp.starttls.enable", "true");

props.put("mail.smtp.host", "smtp.gmail.com");

props.put("mail.smtp.port", "587");

Session session = Session.getInstance(props, new javax.mail.Authenticator() {protected PasswordAuthentication getPasswordAuthentication() {return new PasswordAuthentication(username, password);

}

});

Message message = new MimeMessage(session);

message.setFrom(new InternetAddress(username));

message.setRecipients(Message.RecipientType.TO, InternetAddress.parse(email));

message.setSubject("Login Details");

message.setText("Dear "+fname+"\n"+"Congo You are now part of Our Team "+"\n"+"Your Login Details given Below :"+"\n"+ "Id : "+email+"\n"+"password : "+pass+"\n"+"Regards, "+"BIN Team");

Transport.send(message);

System.out.println("Done");

JOptionPane.showMessageDialog(null, "Mail sent");

response.sendRedirect("empregsuccess.jsp");

}

catch(Exception e)

{

out.println(e);

}

}

<editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

@param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

Handles the HTTP

\* <code>POST</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

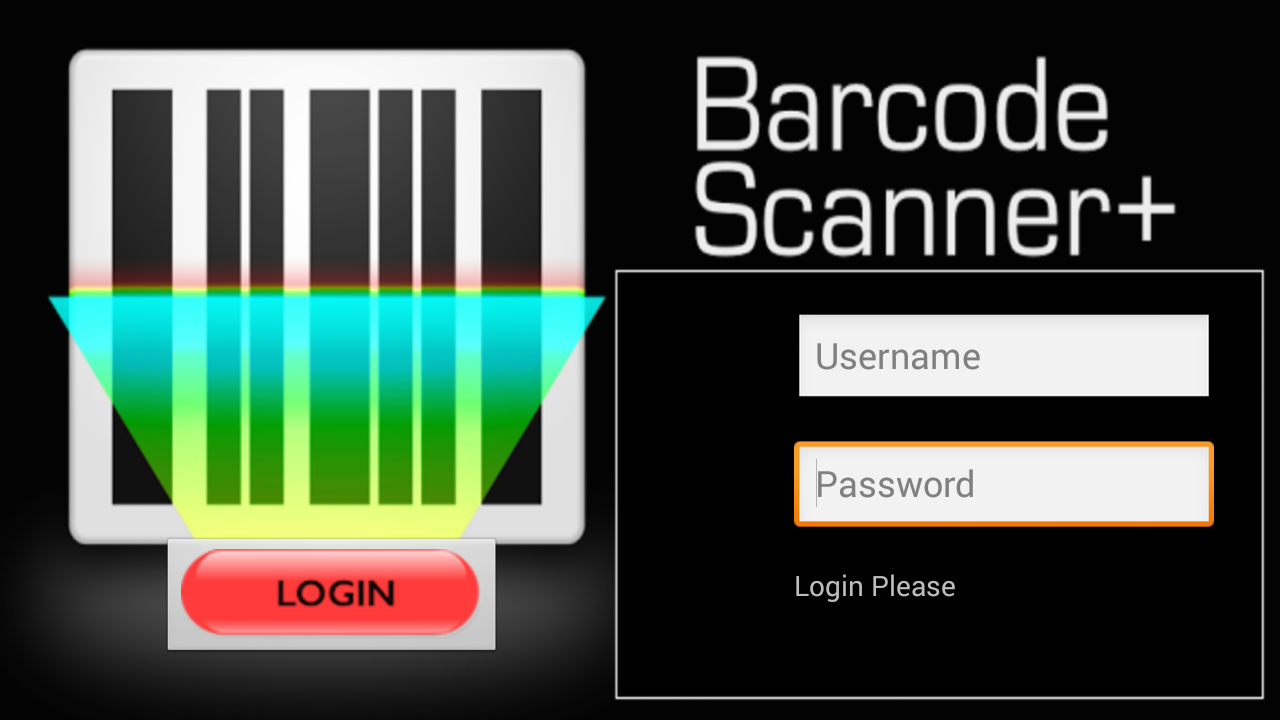
public String getServletInfo() {

return "Short description";

}</editor-fold>

}

**Login Snapshot in Android**

****

**Android file java :-**

package com.example.barcode1;

import java.util.concurrent.ExecutionException;

import android.app.Activity;

import android.content.Intent;

import android.os.AsyncTask;

import android.os.Bundle;

import android.preference.PreferenceManager;

import android.text.TextUtils;

import android.view.Menu;

import android.view.MenuInflater;

import android.view.MenuItem;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.EditText;

import android.widget.ImageButton;

import android.widget.ImageView;

import android.widget.TextView;

import android.widget.Toast;

public class login extends Activity implements OnClickListener{

ImageButton im1;

EditText ed1,ed2;

TextView t1;

serverconn con1;

Intent in;

@Override

protected void onCreate(Bundle savedInstanceState) {

// TODO Auto-generated method stub

super.onCreate(savedInstanceState);

setContentView(R.layout.adminlogin);

t1 = (TextView)findViewById(R.id.textView1);

t1.setText("Login Please");

con1 = new serverconn(this);

im1=(ImageButton)findViewById(R.id.imageButton1);

im1.setOnClickListener(this);

ed1=(EditText)findViewById(R.id.et4);

ed2=(EditText)findViewById(R.id.et5);

}

@Override

public void onClick(View arg0) {

// TODO Auto-generated method stub

if(TextUtils.isEmpty(ed1.getText().toString()))

{

return;

}

if(TextUtils.isEmpty(ed2.getText().toString()))

{

return;

}

t1.setText("Please Wait...");

String uname=ed1.getText().toString();

//String n=PreferenceManager.getDefaultSharedPreferences(this).getString("uname", "abc") ;

String pass=ed2.getText().toString();

//String p=PreferenceManager.getDefaultSharedPreferences(this).getString("pass", "123") ;

in= new Intent(this, MainActivity.class);

con1.addDataToJson(uname, pass);

String result="";

try {

result = (new logintask().execute()).get();

} catch (InterruptedException e) {

// TODO Auto-generated catch block

e.printStackTrace();

} catch (ExecutionException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

if(result.equals("true"))

{

startActivity(in);

finish();

}

else

{

Toast.makeText(this, "Invalid Username/Password", Toast.LENGTH\_SHORT).show();

}

}

private class logintask extends AsyncTask<Void, Void, String>

{

@Override

protected String doInBackground(Void... arg0) {

// TODO Auto-generated method stub

String res = con1.putJson();

return res;

}

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// TODO Auto-generated method stub

MenuInflater mi = new MenuInflater(this);

mi.inflate(R.menu.main, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

// TODO Auto-generated method stub

Intent in = new Intent(this, Pref.class);

startActivity(in);

return true;

}

}

**CHAPTER-6**

**6.1 INTRODUCTION TO ANDROID**

**6.2. Android Operation System**

Android is an operating system based on Linux with a Java programming interface. The Android Software Development Kit (Android SDK) provides all necessary tools to develop Android applications. This includes a compiler, debugger and a device emulator, as well as its own virtual machine to run Android programs. Android is currently primarily developed by Google. Android allows background processing, provides a rich user interface library, supports 2-D and 3-D graphics using the OpenGL libraries, access to the file system and provides an embedded SQLite database.

Android applications consist of different components and can re-use components of other applications. This leads to the concept of a task in Android; an application can re-use other Android components to archive a task.

For example you can write an application which use the Android Gallery application to pick a photo.

**6.3. Google Play (Android Market)**

Google offers the *Google Play* service in which programmers can offer their Android application to Android users. Google phones include the *Google Play* application which allows to install applications. Google Play also offers an update service, e.g. if a programmer uploads a new version of his application to Google Play, this service will notify existing users that an update is available and allow to install it. Google Play used to be called *Android Market*.

**6.4. Security and permissions**

During deployment on an Android device, the Android system will create a unique user and group ID for every Android application. Each application file is private to this generated user, e.g. other applications cannot access these files In addition each Android application will be started in its own process. Therefore by means of the underlying Linux operating system, every Android application is isolated from other running applications. If data should be shared, the application must do this explicitly, e.g. via a Service or a ContentProvider. Android also contains a permission system. Android predefines permissions for certain tasks but every application can define additional permissions. An Android application declare its required permissions in its AndroidManifest.xml configuration file.For example an application may declare that it requires Internet Permissions have different levels. Some permissions are automatically granted by the Android system, some are automatically rejected. In most cases the requested permissions will be presented to the user before installation of the application. The user needs to decided if these permissions should be given to the application. If the user denies a permission required by the application, this application cannot be installed. The check of the permission is only performed during installation, permissions cannot be denied or granted after the installation.

**CHAPTER-7**

**7.1 ANDROID COMPONENTS**

The following gives a short overview of the most important Android components.

**7.2. Activity**

Activity represents the presentation layer of an Android application. A simplified description is that an Activity represents a screen in your Android application. This is slightly incorrect as Activities can be displayed as Dialogs or can be transparent. An Android application can have several Activities.

**7.3. Views and ViewGroups**

Views are user interface widgets, e.g. buttons or text fields. The base class for all Views is android.view.View. Views often have attributes which can be used to change their appearance and behavior. A ViewGroup is responsible for arranging other Views. A ViewGroup is also called layout manager. The base class for a layout manager is android.view.ViewGroups which extends View. ViewGroups can be nestled to create complex layouts. You should not nestle ViewGroups too deeply as this has a negative impact on the performance.

**7.4. Intents**

Intents are asynchronous messages which allow the application to request functionality from other components of the Android system, e.g. from Services or Activities. An application can call a component directly (explicit Intent) or ask the Android system to evaluate registered components for a certain Intent (implicit Intents). For example the application could implement sharing of data via an Intent and all components which allow sharing of data would be available for the user to select. Applications register themselves to an Intent via an IntentFilter. Intents allow to combine loosely coupled components to perform certain tasks.

**7.5. Services**

Services perform background tasks without providing a user interface. They can notify the user via the notification framework in Android.

**7.6. ContentProvider**

ContentProvider provides a structured interface to application data. Via a ContentProvider your application can share data with other applications. Android contains an SQLite database which is frequently used in conjunction with a ContentProvider. The SQLite database would store the data, which would be accessed via the ContentProvider.

**BIBLIOGRAPHY**

I have referred to some books and have also sought help from various websites during the course of the project. The books and websites referred are as follows:

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