

Candidate 175  
**Sr. Java/J2EE Developer**  
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**Summary:**

- Having **8+ years** of professional experience in developing web based, distributed architecture, SOA based and **client/server applications in multi-platform environments with Java/J2EE technologies using Object Oriented Analysis and Design (OOAD)**. Involved in all the phases of Life Cycle of Software Development (SDLC).
- Analysis, Design and Development of **J2EE** Business applications, **Web-based and n-tier applications** using the following core technologies - **Java, Servlets, JSP, JSTL, EJB and XML**.
- Experience in developing web based J2EE applications using **Struts/Spring frameworks**.
- Extensive experience and actively involved in **Requirement gathering, Analysis, Design, Reviews, Coding, Code Reviews, Unit and Integration Testing**.
- Expertise in Microservices to communicate through HTTP protocol for implementing SOA approach.
- Extensive experience in designing front end interfaces using **HTML, JSP, CSS, Java Script and Ajax**.
- Experience on developing latest version of Object Oriented JavaScript Libraries like Angular.JS, Node.JS, Backbone.JS and had hands on experience with Web Responsive using Bootstrap's templates.
- Good Experience using Object Relational Mapping tool like **Hibernate**.
- Experience in developing **Service Oriented Applications (SOA)** using **Spring Framework**.
- Experience in Spring Framework such as **Spring MVC, Spring IOC, Spring Resources, Spring JDBC**.
- Experience with various IDEs like **IntelliJ, Eclipse, Web sphere Studio Application Developer(WSAD) and Rational Application Developer (RAD), Visual Age Java**.
- Implemented the projects on **Agile Methodology** and involved in running the scrum meetings.
- Strong working knowledge in Oracle Stored procedures, functions, triggers, sequences.
- Have good knowledge working on **XML Suite of Technologies XML, XSL, XSLT** and validations with **DTD & XML Schema** and processing profile with **SAX, DOM** Parsers.
- Experience in developing web-services using RESTful, **SOAP, WSDL and UDDI**.
- Experience in Business Process Analysis, Detailed Data Analysis.
- Experience in designing and developing UI Screens using **Java Server Pages, Html, CSS and JavaScript**.
- Used **Clear Case, CVS, Maven, and Subversion** for Source code version control.
- Experience in creating **Jasper Reports** which are used to deliver rich content onto the screen, to the printer or into PDF, HTML, XLS, CSV and XML files.
- Experience in designing transaction processing systems deployed on various application servers including **Tomcat, Web Sphere, Web logic**.
- Good Experience on **ITSM, Rally, JIRA, Version One** for tracking the tickets like **accepting** the tickets/defects, **Submitting** the tickets and **closing** the tickets etc.,
- Designed dynamic user interfaces using **AJAX and JQuery** to retrieve data without reloading the page and send asynchronous request.
- Experience in **TDD (Test Driven Development)**.
- Good Experience in **Process Improvement and Continuous Integration**.
- Excellent Experience in **Code Refactoring**.
- Excellent **Client interaction skills and proven experience** in working independently as well as in a team.
- Excellent **communication, analytical, interpersonal** and presentation skills.
- Experience working on migrating traditional services into **micro services** leveraging best practices and deploy into cloud.

**Technical Skills:**

<b>Operating Systems</b>	Windows, UNIX, LINUX
<b>Programming Languages</b>	C++, Java, J2EE, C#, SQL, PL/SQL
<b>J2EE Technologies</b>	JDBC, <b>Servlets, JSP, JMS, EJB, JNDI, RMI</b> , Web services, DOM, SAX.
<b>Frame Works</b>	Struts, <b>Hibernate, Spring, Spring Core, Spring-ORM, Spring-JMS, Spring boot, Spring MVC, Spring JMS</b> , Netflix OSS
<b>XML Technologies</b>	<b>XML, XSL, XSLT, XML Schema</b>
<b>Web Technologies</b>	HTML5, <b>CSS5, JavaScript, JQuery, Angular JS</b> , Bower, Yeoman, NodeJS

<b>Design Methodologies</b>	SDLC, <b>UML, J2EE Design patterns.</b>
<b>Application Servers</b>	Web Sphere, <b>WebLogic, JBOSS.</b>
<b>Web Servers</b>	Apache Tomcat.
<b>Protocol</b>	HTPP, TCP/IP, LDAP, FTP.
<b>Databases</b>	<b>Oracle, MS SQL-Server, Sybase, DB2.</b>
<b>IDE Tools</b>	<b>IntelliJ, Eclipse, RAD, WSAD.</b>
<b>Other Tools</b>	TOAD, <b>Log4J, Ant, JUnit</b> , Microsoft Excel, Microsoft Word, Rational Tool Suite.
<b>Source Control</b>	Clearcase, GIT, CVS, CMVC, SVN, Visual Source Safe (VSS), Maven, Subversion.
<b>Methodology</b>	<b>OOAD, UML, OOP's, J2EE Design Patterns</b> , MVC framework, <b>Agile, SCRUM.</b>
<b>Reporting Tool</b>	JReport Designer and JReport Server.
<b>Ticketing Tools</b>	Version One, JIRA, ITSM and Rally
<b>Other Tools</b>	Microsoft Office, <b>XML Spy, SQL Developer</b> , WinSCP, JUnit.

## PROFESSIONAL EXPERIENCE

**Client:** Pepsi Co. Dallas, Texas,  
**Title:** Sr. Java/J2EE Developer

**Sep16- Present**

### Role & Responsibilities:

- Involved in the lifecycle of the **software design process including, requirement Definition, prototyping, design, interface implementations, unit testing and maintenance.**
- Worked on both SOAP and REST based services to communicate with other services and published services using SOAP and REST.
- Used Java-J2EE patterns like Model View Controller (MVC), Business Delegate, Data Transfer Objects, Data Access Objects, factory patterns.
- Used **Model View Controller (MVC)** based Spring MVC Framework along with JSPs to build web applications.
- Implemented restful web services using **Spring MVC architecture and** Configured Bean properties using dependency injection.
- Developed backend services using Spring-Core and Spring-ORM and Spring-REST.
- Implemented the DAO layer using **Hibernate** and injected Session factory using spring Dependency injection
- Re factored the code to fit optimize leveraging OOP principles, patterns and caching and concurrency and event driven models.
- Developed custom AngularJS directives, tags and integrated with Spring forms.
- Developed web application using AngularJs, Bower, Yeoman, Grunt and deployed in NodeJS runtime.
- Leveraged TCP/IP protocols for web to connect to RESTful services using ajax calls.
- Developed additional UI Components **implemented an asynchronous, AJAX (JQuery) based rich client to improve customer experience.**
- Developed AngularJs based services for reusability and used injection to be used by multiple controllers.
- Log 4j was used to monitor the error logs. Used Git Repository as version control tool.
- Developed Testcases using junit framework and followed test driven approach in building service components.
- Used Dynatrace and Jprofile for performance monitoring of the applications.

**Environment:** Java/J2EE,Jdk1.5, JDBC, Servlets, JSP, **Struts 1.2, Hibernate 4.2, Spring 3.5, SOAP REST**, WSDL, EJB, JMX Console, Spring MVC, Jprofile, **Dynatrace**, Maven, ANT, JSP, TCP/IP, **JQuery**, JSON, AJAX , Html, CSS, Java Script, log4j, **Oracle 11g, jquery**, Groovy, WebLogic , RAD, IBM BPM, SVN, Eclipse, UNIX, Agile ,Spring boot, **AngularJS, NodeJS, Bower, Grunt**

**Client:** American Airlines. *Dallas, Texas,*  
**Title:** Sr. Java/J2EE Developer

Sep'14 – Sep'16

#### Role & Responsibilities:

- Developed both front and end back end applications in an agile driven environment.
- Used **Model View Controller (MVC)** based Struts Framework along with JSPs to build web applications.
- Implemented restful web services using **Spring MVC architecture** and Configured Bean properties using dependency injection.
- Leveraged hibernate for persistence and used Spring-ORM module for injection SessionFactory objects.
- Designed and developed **queries using Hibernate Query Language and data validation via the Hibernate validator framework..**
- Designed, developed a custom, single-page, responsive web application on front end using AngularJS.
- Developed additional UI Components **implemented an asynchronous, AJAX (JQuery) based rich client** to improve customer experience.
- Configured webSphere application server connection polling settings to handle the volume.
- Used **Data Access Objects (DAO)** to abstract and encapsulate all access to the data source.
- Published SOAP based webservices using Jax-ws and consumed web services generating stubs from WSDL.
- Developed the User interface Templates using JSP, JavaScript, CSS, HTML and Ajax.
- Used **MAVEN** as the build tool and **Jenkins** for continuous integration.
- Developed RESTful services using spring MVC and consumed rest services using ajax and spring REST template.
- Developed the **application using Eclipse/IntelliJ IDE.**
- Used **AngularJS** a framework to create a Single Page Application (SPA) which can bind data to specific views and synchronize data with the server.
- Developed RESTful services using spring MVC and used spring REST template to communicate with other REST based services.
- Consumed REST services from Angular apps using \$resource.
- Used Microservices to communicate using synchronous protocols HTTP and REST for implementing SOA approach.
- Developed **micro services** based applications using **spring boot** and **spring cloud** to be deployed on cloud platform.
- Worked on micro service boundaries and exposed them as REST and followed micro services best design practices.
- Isolated the dependencies to make the **micro services** self contained and independent of other domain objects.
- Used NetFlix OSS servers like Eureka for service discovery for micro services.
- Used **Yeoman, Grunt, Bower** to build **angularJs** based application and wrote controllers and services based on angularJs.

**Environment:** Java/J2EE,Jdk1.5, JDBC, Servlets, JSP, **Struts 1.2, Hibernate 4.2, Spring 3.5, SOAP REST, WSDL, EJB, JMX Console, Spring MVC, Jprofile, Dynatrace, Maven, ANT, JSP, TCP/IP, JQuery, JSON, AJAX , Html, CSS, Java Script, log4j, Oracle 11g, jquery, IBM BlueMix, Groovy, Nginx, RAD, IBM BPM, SVN, Eclipse, UNIX, Agile, Spring boot, Spring-cloud, NGINX, AngularJS, NodeJS, Bower, Grunt, NGNix.**

**Client:** Sabre Airline Solutions, *Southlake, Texas, USA*  
**Title:** Sr. Java/J2EE Developer  
**Project:** SSW 2010(Sabre Sonic Web)

Aug'13 – Sep'14

**SabreSonic Web (SSW)** is the e-commerce solution that empowers the customers and revolutionizes the business. SSW (SabreSonic Web) includes a best-in-class Internet booking engine(IBE), configurable shopping and pricing capabilities, self-service check-in, loyalty, and mobile solutions. It has robust analytical and reporting tools. SabreSonic Web supports one-way, round-trip, multicity itineraries, Frequent Flyer program and configures the default search. Sabre sonic web supports mobile booking (Both Check-in and Web).

STAN (Site Administration Tool) Admin is a configuration tool for to customization component behavior, translations, uploading airline specific data, and static content such as HTML, Images, Java Script, and CSS to change view of the page during runtime. Key benefits of this project are Increases revenue, Reduces costs, Enhances the customer experience.

#### Role & Responsibilities:

- Involved in all the phases of **SDLC including Requirements Collection, Design & Analysis** of the Customer Specifications, Development and Customization of the ecommerce based web Application.
- Worked on **Implementation of MVC architecture under Spring Framework**.
- **Implemented Spring MVC architecture and Spring Bean Factory using IOC**. Configured Bean properties using dependency injection.
- Implemented **Hibernate interceptor** to the configuration type changes.
- Responsible for implementing **Presentation, Service, and Data layer coding..**
- Designed and Developed **JMX Bean for uploading, removing configuration to specific airlines**.
- Designed and developed all UI Screens (Forms) using **Java Server Pages, Static Content, Html, CSS and JavaScript**.
- Configured the properties using **JMX Console**.
- Responsible for writing **JUNIT test cases all layers**.
- Created multi-module maven project and used **Maven to build applications**.
- Created **WAR/EAR** files from Maven and deployed them on **Tomcat**.
- Invoking **web services using Axis framework** and generated **WSDL files**.
- Involved in **Unit testing and Integration Testing, and fixing defects**.
- Deployed and moved all configurations to **UAT Environment**.
- Involved in **Process Improvements, Continuous Integration and Code Refactoring**.
- Updated the defects in **JIRA/Version One** tracking tool.
- Reviewing the code and providing the Code review Comments.
- Daily running the **SCRUM Meeting with the team**.
- **Handled client calls** in helpdesk during maintenance period.

**Environment:** Core Java, Jdk1.5, JDBC, Servlets, JSP, **Struts, hibernate, springs, SOAP and Restful Web Services**, WSDL, **EJB**, JMX Console, Maven, ANT, JSP, **JQuery**, JSON, AJAX , Html, CSS, Java Script, log4j, SQL Server, Groovy, Apache Tomcat, SVN, Eclipse, UNIX, IntelliJ, Agile.

**Client:** *Insight, Plano, Texas, USA*

**Dec'12 – Aug13**

**Title:** Sr. Java/J2EE Developer

**Project:** Project One

Insight is a global provider of information technology (IT) hardware, software and service solutions to business and public sector organizations. Worked on developing an Enterprise grade B2B portal from ground up. Insight provides a feature where the client can assign roles and permissions for internal users, based on the user type. These permissions and roles are for the ease of the client for faster decision making with in the company.

Insight clients open accounts with Insight who will be given user name and password to login using insight.com and starts placing orders for all the needs, and all the deliverables of the goods will be taken care by Insight. User can do the online shopping using this link: <https://www.insight.com>

#### **Role & Responsibilities:**

- As a **Senior Programmer** I was involved in the complete life cycle of the project.
- Used **Spring framework for dependency injection** with the help of Configuration files.
- **Implemented Spring MVC architecture and Spring Bean Factory using IOC**. Configured Bean properties using dependency injection.
- Created an **XML configuration file for Hibernate to map to SQL Server Database**.
- Created connections to database using **Hibernate session Factory, using Hibernate APIs** to retrieve and store data to the database with Hibernate transaction control.
- Involved in C# development.
- Worked with **Primesys(Third Party)** team for credit card/Debit Card validation.
- Extensively written unit **test cases using JUnit framework**.
- Designed dynamic user interfaces using **AJAX and JQuery** to retrieve data without reloading the page and send **asynchronous request**.
- Worked on **JQuery functions, Dialoges, Popups**.
- Used **Log4j** to provide central logging facility.
- Created multi-module maven project and used **Maven to build applications**.
- Invoking **web services using Axis framework** and generated **WSDL files**.
- Written test cases and executed.
- Daily running the **SCRUM Meeting with the team**.
- Updated the Tasks/defects in **Rally** Tracking tool.
- Involved in **Requirement Gathering and worked with Business Analysts** for change requests.

**Environment:** Core Java, Jdk1.5, JDBC, Servlets, JSP, **hibernate, springs, Web Services, EJB, C#,** Maven, JSP, JQuery, JSON, AJAX , Html, CSS, Java Script, log4j, SQL Server, JBoss, Apache Tomcat, SVN, Eclipse, DOJO, UNIX, Agile.

**Client:** Cap Gemini, Dallas, Texas, USA

May'12 – Dec12

**Title:** Sr. Java/J2EE Developer

**Project:** EFH (Energy Feature Holdings) Division – Ezpay

Ezpay is Web internet Application. Ezpay is an expense management system for the EFH employees. Whenever an employee is sent on an official trip, he/she will be given travel and expense cards. These cards can be used by the employees against the expenses for accommodation, food and travel during their trip. These transactions which are performed using the travel and expense cards are gathered by the JP Morgan Bank. This bank will further push through the transaction details to the Ezpay application.

The employees whoever use the travel and expense cards need to login into the Ezpay application. After they login they will find few unassigned items which are nothing but their expense details which were carried out through the cards. These expense details have to be double checked by the employees and finally need to be submitted to the manager for the approval.

#### **Role & Responsibilities:**

- Performed full life-cycle solutions, from requirements gathering, to writing specs then after development, writing the user/technical documentation.
- Created Action Classes, Domain Objects Request processor for the application using Model View Controller (MVC) approach.
- Designed and developed all UI Screens (Forms) using Java Server Pages, Struts, Html, CSS and JavaScript.
- Created Action Classes, Action Forms, and Form Bean Request processor for the application using Model View Controller (MVC) approach.
- Wrote JavaScript's for validating the client side user account information based on their business rules.
- Developed Developers test for repeatable test by using JUnit for fixing defects.
- Wrote VO's, DAO's to retrieve & store data the data form the SQL Server Database.
- Configured the hibernate.cfg files to connect to SQL Server database.
- Used Clear Case for Source code version control.
- Jasper Reports are used to generate dynamic reports, including data retrieval using JDBC (Java Database Connectivity)
- Used SAX and DOM for parsing XML documents and XSLT for transformation.
- Involved in creating the ear files using the build tool in the Web logic application server.
- Involved in the Deployment of the application in Web logic Application Server.
- Involved in generating the WSDL (using Web Services) file from Rational Application Developer.
- Wrote Web Service method calls to get Supporting Information, searching/retrieving user accounts, modifying the user.
- Involved in the maintaining of Managed Servers in the Web logic application server.
- Involved in monitoring the batch jobs and checking the log files.
- Worked on ITSM tool for tracking the tickets like accepting the tickets, Submitting the tickets and closing the tickets etc.,
- Involved in the daily health checks.
- Involved in the code fixing and system testing activities.
- Used Clear case for Source code version control.
- Handled client calls in helpdesk 24/7 365 days.

**Environment:** Core Java, Jdk, JDBC, **Struts, Spring Framework, Hibernate, Web Services,** JSP, Tag Libraries(JSTL), SQL Server, XML, Html, CSS, Java Script, AJAX, Ant, Clear case, **Web logic, Junit, log4j, RAD, Unix, ITSM Tool.**

**Client:** IBM, California, USA

Oct 11 – May 12

**Title:** Sr. Java/J2EE Developer

**Project:** Tagging - Social Book Marking Services

This project is about creating a dynamic context aware navigation based on popular chooses for ibm.com pages. This application fetches the popular Tags and related links for every ibm.com page from an external book marking tool called del.icio.us, applies various filtering logic decided by the admin, sorts out and displays the popular Tags and related links on the left side navigation section of every ibm.com page.

This application helps the ibm.com users to find more relevant and useful links about the same subject/topic while browsing ibm.com and increases the sharing of knowledge among the user groups. The application fetches every popular

Tags and their related links from del.icio.us for all ibm.com pages everyday in the form of JSON and RSS feeds and keeps the local database updated to present the most popular and updated set of Tags and links to the ibm.com users.

#### Role & Responsibilities:

- As a Senior Programmer I was involved in the complete life cycle of the project.
- Created **Action Classes, Action Forms and Form Bean Request processor** for the application using Model View Controller (MVC) approach.
- Implemented **Spring MVC architecture** and **Spring Bean Factory using IOC**. Configured Bean properties using setter injection.
- Designed and developed all UI Screens (Forms) using **Java Server Pages, Struts, Html, CSS and JavaScript**.
- Worked extensively with JSP's and Servlets to accommodate all presentation customizations on the front end.
- Developed business logic activities with **Java Beans, Servlets**.
- Developed handlers and DAO's to get the data from Database.
- Developed the front-end using **JSP, Servlets, HTML, and JavaScript**.
- Developed **JSP**'s for the presentation layer.
- Programmed the **Data Access layer** using **DAO** pattern, with **hibernate** being used for data access.
- Involved in coding Oracle Stored **Procedures, functions and pl/sql**.
- Application customized using Flex and JavaScript for extended features. The application is structured as components having reusable flex components with backend data and Java Webservices.
- Created DML statements to insert/update the data in database and also created DDL statements to create/drop tables to/from oracle database.
- Configuring **Hibernate**, obtaining a session, store objects in the database, retrieve objects, querying objects and persisting relationships between objects.
- Configured the **hibernate.cfg** files to connect to our database and engineered the **XML mapping files** for the **value objects**.
- Client side validations were performed **using JavaScript**.
- Wrote **VO's, DAO's to retrieve & store** data the data form Web Services and populate the user account information to admin for modifying or creating the alternate/secondary ids for the primary user id account .
- Deployment of the ear files using the build tool in the Web sphere application server

**Environment:** Core Java, Jdk1.5, JDBC, Servlets, JSP, **Struts, hibernate, springs**, Tiles, Html, CSS, Oracle, Java Script, PL-SQL, Views, **Web sphere**, CVS, Eclipse.

**Client: Comcast Technologies**

**Apr 09 – Oct 11**

**Title: Sr. Java/J2EE Developer**

**Project: Flexible Access Agreement (FAA)**

The user or customer needs to subscribe for a fixed period of time (contract which varies quarterly, yearly and for 50 yrs) and should adhere to the contract during the subscribed period in order to retrieve the information or details of the products. The user is provided with a login account during his subscription period.

The other way for the user to get the detailed information about a product is by requesting one time information from the internal subscription, which means that He can get the required information for once from an internal employee's account.

The website for such requests is: <http://eufinance.dnb.com>

#### Role & Responsibilities:

- My role involved extensive understanding of various business models and the underlying complexities that drive those systems in a commercial market.
- Involved in developing, testing and implementation of the system using **Struts, JSF, and Hibernate**.
- Wrote **Action servlets, form beans using struts MVC framework (Srtuts1.1)** for the modules
- Developed JMS Message Driven Beans and Clients for sales Analysis and Customer report History.
- Wrote many **Java Scripts to do Event Handling, Client side validations**.
- Created various **PL/SQL** procedures, packages and triggers for various modules as required.
- Developed Java beans and used those beans into front-end Jsp forms to get the related data.
- Developed front-end with **JSP's, html, CSS and JavaScript**.
- Created DML statements to insert/update the data in database and also created DDL statements to create/drop tables to/from oracle database.
- Involved in writing SQL queries, Stored procedures
- Used SAX and DOM parsers to process XML messages.
- Designed and Developed **JSP** component, implemented event handling using **Java, AJAX and JavaScript**.

- Used **Log4j** to provide central logging facility.
- Written SQL statements for manipulating database, using **JDBC**.
- Developed common style sheets and common **JavaScript** functions.
- Using JAXP to parse and transform XML documents, XSLT transformations for application integration, and web publishing
- Designed and developed **Web Services** to provide the interface to the various clients running on both Java and Non Java applications using **SOAP** and **WSDL**.
- Used Subversion for source code version control.
- Developed unit test cases using JUnit.
- Involved in the code fixing and system testing activities.
- Involved in Design with UML diagrams and developed the application accordingly.
- Involved in developing stored procedures, triggers & Views.
- Written DML statements to insert update and delete the data to/from the database and DDL statements to create or drop tables in/from Database.
- **Handled client calls** in helpdesk during maintenance period.

**Environment:** Core Java, J2EE, **JSF**, **Web services**, JSP, JSTL, JNDI, HTML, XML, Java Script, Ajax, XML, SAX, DOM, SOAP, DB2, Views, JBoss, Ant, JUnit, Oracle, and UNIX.

**Client:** *Radiant Info Systems*

**June 07 – Apr 09**

**Title:** Java/J2EE Developer

**Project:** Enterprise Hospital Information System (EHIS)

e-HIS is a real-time, on-line, integrated information/management system for healthcare establishments, addressing all critical areas of health care activity. This system deals with the automation of various functions in a Hospital and includes modules like Inpatient Management, Outpatient Management, Pharmacy, Clinician Access and Order Entry Result Reporting.

With the e-HIS product we can perform lot of functionalities which will be beneficial to the patient and the doctor. All the patient's history will be maintained in the database pertaining to that Hospital provided a Patient ID. A Doctor can know to how many patients he needs to do diagnosis for a period of time. A Patient can be diagnosed by the doctor perfectly provided his details (PatientID). No Paper work.

Bills and Pharmacy work can be done by placing the Orders by Doctors and giving reports to the Patients. This project was developed using Java, JSP and Servlets with Apache Struts Framework

#### **Role & Responsibilities:**

- Involved in development, customization and enhancement of the product.
- Designed and developed all UI Screens (Forms) using **Java Server Pages, Struts, CSS, JSTL, Html and JavaScript**.
- In this e-HIS Project, I worked as a J2EE developer in OR (Order Entry & Result Report) module. This module is interlinked to most of the core modules.
- In this module we will provide facilities to the doctors to place orders and reporting the result (state). In this module we will give all the permissions to admin, so that to configure the privileges for the different practitioner (who serves the patient).
- I am one of the 7 members of the team and developed Master Functions and Transaction Functions based on the requirement and done enhancements and optimizations to the existing code.
- Also involved in continuous enhancement, maintenance and bug fixing.
- Provided on call support for the Web application and assisted in resolving business critical issues with the J2EE web application.
- Used CVS for source code version control.
- Performed server side coding using servlets, Jsp and deployed on Bea Web logic server.
- Used Log4j to provide central logging facility, comes under singleton design pattern.

**Environment:** Java, Servlets, JSP, Struts, JDBC, HTML, XML, CVS, CSS, Java Script, Oracle, JReports, Tomcat and UNIX.