**SR. JAVA/J2EE FULL STACK DEVELOPER**

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**PROFESSIONAL SUMMARY:**

Over **8+ years** of experience as **Full Stack Java develop** involving analysis, design, implementation, integration, administration, and testing of various enterprise applications.

* Good experience in Software Development life cycle using various methodologies like **Waterfall, Agile and Test-Driven Development.**
* Experience in developing applications using **Core Java, J2EE, JSP, Servlets, Struts, Spring 3.2, Spring 4.0, Hibernate, Web Services (SOAP, REST), JAX-RS, JAX-WS, JMS, JDBC, XML, JavaScript, Angular, XSLT, JSON, Ajax and jQuery.**
* Experienced in developing front end applications **using HTML, HTML5, XML, XHTML, DHTML, CSS, CSS3, Bootstrap, SAAS, JavaScript, DOM, jQuery, Ajax, JSON, and JSP.**
* Proficient in implementation of frameworks like **Struts, spring, Spring Boot, JSF, AJAX** and **Hibernate[ORM]**.
* Extensive experience in design, development and support **Model View Controller** using Struts and Spring framework.
* Experienced with **XML** related technologies such as **XML, XSL, XSLT, DTD, Schema, XPath, DOM, SAX, Node JS, React JS and JAXB.**
* Experience in deployment of the **J2EE applications** on **Tomcat, IBM Web Sphere, BEA Web logic and JBOSS.**
* Experience in **RDBMS including Oracle, DB2, Couchbase, MongoDB, Hadoop, MySQL, PL/SQL, and MS SQL Server.**
* Experience on **Single Page Application development**, working with Directives, Services, Filters, Guard and Validations in the **Angular 2, Angular 4 and Angular 5.**
* Good experience in **Amazon Web Services (AWS)** environment and good knowledge of AWS services like **Elastic Compute Cloud(EC2), Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic Filesystem, RDS, DMS, VPC, Route53, Cloud Watch, Cloud Trail, Cloud Formation, IAM**.
* Expertise in building real time data pipelines using **spring Kafka and zookeeper** apart from **JMS** and messaging.
* Experience with **Docker**, leveraging **Linux** Containers and AMI's to create **Docker Images/ containers**.
* Experienced in working **Spring AOP** for Logging, Transactions and Messaging.
* Worked with Version Control Systems like **CVS, SVN (Sub Version), GIT, GitHub, Clear case.**
* Efficient in using Web services like **SOAP** and **Restful** Web Services.
* Expertise in designing **Java, J2EE** applications using **Servlets, JSP, Spring, Hibernate, Scala, Web services**

**(SOAP, RESTful), Amazon Web Services** and **AWS Elastic Compute Cloud EC2.**

* Experienced with the entire **Software Development Lifecycle (SDLC**) of applications: gathering requirements, analysis, conceptual and detail design, development, verification and testing.
* Experience in writing **JSON REST APIs** using **Golang**
* Highly proficient in designing n-tier Enterprise application with **J2EE** design patterns like **IOC, AOP, MVC, Business Delegate, Service Locator, Session Facade, DTO, DAO, Front Controller, Factory and Singleton.**
* Experience in implementing **Java EE design patterns such as MVC, Singleton, Session Façade, DAO, DTO,** and **Business Delegate** in the **development of Multi-Tier distributed Enterprise Applications**.
* Experienced in **Splunk Log Management Creating dash boards, monitoring, reporting, Email Notification to Users for threshold limit**.
* Good Experience with **Springs, Spring IOC, AOP, MVC, Spring Security, Spring JPA, Spring Batch**
* Used **Hibernate** as an **ORM** mapping tool like **JPA** Entities for mapping Java classes using **HQL**.
* **Experience with build tools like CICD-ANT, Maven and logging tools like Log4J.**
* Experience in creating Asynchronous Messaging configuration in **Tomcat, Web logic** and **web sphere Servers**.
* Experience with and solid understanding of **Microservices.**
* Hands on experience with persistence layer using **SQL, Hibernate, JPA, JDBC, PL/SQL-**Stored procedures, functions, triggers and Cursors etc.
* Experience in working with **Eclipse IDE and build tools like Ant and Maven and source controllers like CVS, SVN,**

**and GITHUB.**

* Good experience in unit testing with **Karma, Jasmine and JUnit**.

**TECHNICAL SKILLS**

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| --- | --- |
| **Programming Languages** | Java JDK1.4/1.5/1.6, C, SQL, PL/SQL |
| **Java/J2EE Technologies** | Servlets, JSP, JSTL, JDBC, JMS, JNDI, RMI, EJB, JFC/Swing, AWT, Applets, Multi-threading, Java Networking |
| **Web Technologies** | JSP 3.0, JavaBeans 3.0, Java Servlets API 3.0, AngularJS, JSP, JavaScript, JSON, jQuery, AJAX, XML, XSLT, HTML, DHTML, CSS |
| **Frameworks** | Struts 2.x/1.x, Spring 3.x/ 2.x, Hibernate 3.x/4.x, JSF 1.2/2.0, Angular JS 1.0/1.5/2.0, Spring Security 3.2, Spring MVC, Spring Boot, Struts, Servlets, Java Swing, Applets, Spark |
| **IDEs** | Eclipse 3.x, IBM WSAD, IBM RAD 7.x/6/x, IntelliJ |
| **Web Services** | JAX-WS, JAX-RPC, JAX-RS, SOAP, REST, SOAP UI |
| **Methodologies** | Agile, Scrum, RUP, TDD, OOAD, SDLC |
| **Testing Tools** | JUNIT4.12, JMeter, Mockito, TestNG, Jasmine, Karma |
| **Build Tools** | Maven, Gradle, ANT |
| **Messaging** | JMS MQ, IBM MQ, Rabbit MQ, IBM MQ 8.0, Apache Kafka |
| **Version and Source Control** | GIT, Bit Bucket, CVS, SVN, GITHUB 2.12.0 |
| **Databases** | MySQL, ORACLE, NoSQL, Mongo DB, DB2, MS SQL, SQL Server, RDBMS |
| **Modelling Tools** | Microsoft Visio, Rational Rose |
| **Operating system** | Windows 10, Linux Mint 18.1, Unix |
| **Application Servers** | Apache Tomcat Server, IBM Web Sphere, JBOSS, Oracle Web Logic  Version Control Git |
| **Testing &logging** | Jasmine, Junit, Log4J, SoapUI, Test NG, Karma, Protractor, Mockito, Selenium,  Docker, Jenkins. |
| **Cloud Technologies** | AWS EC2, Elastic Beanstalk, ELB, Route53, S3, Cloud watch, SNS, RDS, IAM, Cloud Formation |

**Professional Experience:**

**Client: Principal Financial Group, Des Moines, IA Dec 2016– Present**

**Role: Sr. Java/J2EE Full Stack Developer**

**Description:** The Principal Financial Group (Principal) offers businesses individuals and institutional clients a wide range of financial products and services including retirement, asset management and insurance, through its diverse family of financial services companies.

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle **(SDLC)** of the application like Requirement gathering, Design Analysis, and Code development.
* Worked as **a Senior Java Developer**, assisting the team in developing a Web-based application.
* Developed interactive web application using **Spring MVC, Ajax, jQuery, CSS and HTML**
* Developed UI components using **Angular 4 dependency Injection**, Models, data binding and controllers
* Used the functionalities for writing code **in HTML, CSS, Angular.js, D3.js, Node.js, JavaScript, JQUERY, Ajax, JSON, and Bootstrap with MySQL database.**
* Implemented various **J2EE design patterns** like **Singleton, Factory, Builder** etc.
* Experience in writing Components, Pipes and Services to separate concern and handle different situations by applying **Angular4**
* Developed user interfaces which are single page applications using **JavaScript, CSS, HTML, Angular JS.**
* Developed view components using **JSP, JSTL, JavaScript, CSS, Struts Logic tags and struts tag libraries.**
* Developed presentation layer using **HTML5, CSS3** and client validation using **JavaScript, DOM, JSON.**
* Developed interactive web application **using Spring MVC, Ajax, jQuery, CSS and HTML.**
* **Microservices** have been built using **Spring boot**, **Spring security** and deployed to **AWS cloud**.
* Used **Spring Ribbon** along with **Spring Boot** for **load balancing** and **Fault tolerance** of the application.
* Worked on **RESTful services** for transferring and retrieving **XML** and **JSON** data between different applications.
* Implemented **MVC architecture** by applying **Angular JS framework**.
* Created a Collections in **MongoDB** by writing Java code through **Spring Boot**
* Set up **Jenkins server** and **created Jenkins jobs** to build and deploy the application in different environments using **Maven**.
* Strong understanding of **Microservice** architectures, patterns, related frameworks and prior hands-on experience in developing and deploying **Microservice** solutions
* Used version control repository **GIT** and **JIRA** for issue tracking
* Developed Business rules using **DROOLS** and integrated with Application.
* Developed build script using **MAVEN** to build, package, test and deployed the application in **WebLogic**
* Used **Hibernate** for **Object Relational Mapping (ORM**) and data persistence
* Utilized various **JavaScript** and **jQuery libraries, AJAX** for form validation and other interactive features.
* Used **Apache Maven** build tool to automate the build process and **Jenkins CI** for continuous integration.
* Involved in converting **SQL** queries into **Apache Spark** transformations using Apache Spark RDDs and **Scala**.
* Used **Log4j** framework to log/track application.
* Experience with features of **Angular 4** such as directives, dependency injection, modules and routing.
* Experience in Cloud Solutions on **AWS** utilizing **EC2, S3, IAM, ECS** and **RDS** etc.
* Developed and maintained automated regression test cases in **Selenium** Web Driver using **Java programming.**
* Provide production support and address issues that may occur in production and Involved on build and deployment process.

**Environment**: **Java/J2EE, Servlets, JSP, Spring, XML, XSLT, JDBC, AJAX, HTML, CSS, Bootstrap, JavaScript, Angular JS, Web Logic application server, Eclipse, Apache Axis, Log4J, Splunk, Maven, Windows, CVS, Junit, JIRA, Jenkins GIT, jQuery, MongoDB, Spring Boot, Selenium**

**Client: Goldman Sachs, Jersey City, NJ July 2015 – Nov 2016**

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

**Description:** Project Apple is the acquisition and integration of GE Capital Bank’s online deposit platform into Goldman Sachs. The purpose of this project is to keep a continuous monitor on the activities of the account holders. Feed comes in from upstream (DWH), application process the feed and dumps in the data into multiple DB’s. application consist of various modules like, FRAUD UI, Feedback loop, Alert-Generation and Reporting.

**Responsibilities:**

* Followed **Test Driven Development (TDD),** Scrum concepts of the **Agile** Methodology to produce high Quality Software, involved in System Requirements study and conceptual design.
* Designed and developed web UI screens using **Angular-JS, Bootstrap, HTML, CSS and JavaScript**.
* Developed various **J2EE components like Servlets, JSP, JSTL and JMS**.
* Hands on experience **Spring Boot Actuator**, **Spring Cloud**, and **Netflix Eureka.**
* Developed **REST and SOAP** based Web Services for data retrieval to make it independent of the current application.
* Implemented **SOA** to develop **REST** Based Web services using **Apache Axis**.
* Maintained **CSS and HTML, JavaScript, JSON, JSF, AngularJS, Bootstrap** for designing Web Pages
* Experienced with event-driven and scheduled **AWS** **Lambda** functions to trigger various **AWS** resources.
* Used **Spring framework** to achieve loose coupling between the layers thus moving towards **Service Oriented Architecture** (**SOA**) exposed through **RESTful**.
* Developed **Microservices** using **Spring Boot,** **Spring Cloud** with **Netflix Eureka** to create the discovery Server, service, discovery clients and integrated **Apache Kafka** and **Zoo Keeper** as message broker.
* Designed and developed **RESTful** Web services. Created and compiled XML Schema to generate Java Bean classes using **Apache Axis**.
* Build **REST web service** by building Node JS Server in the back-end to handle requests sent from the front-end **JQUERY, AJAX via JSON**
* Implemented **MVC architecture** by applying **Angular JS** framework.
* Utilized various **JavaScript and jQuery** libraries, **AJAX** for form validation and other interactive features.
* Used **AWS SDK** to connect with **Amazon SQS** for bulk email processing
* Implemented **AWS IAM** for managing the credentials of applications that runs **on EC2instances**.
* Worked on Code builds and code changes are made in **JavaScript, Python and Shell scripts**
* Implemented the database connectivity using **JDBC** with **Oracle** database as backend.
* Used **Spring Framework AOP Module** to implement **logging** in the application to know the application status.
* Implemented **Java/J2EE** design patterns such as Factory, **DAO, and Singleton**.
* Used **Angular JS** as framework to create a **Single Page Application (SPA**), which can bind data to specific views and synchronize data with server.
* Used **JavaScript** for the client-side validation. Used **XML HTTP Request** Object to provide asynchronous communication as part of **AJAX** implementation.
* Configured the **Docker** Containers and creating **Dockers** files for different environments.
* Extensively used **MVC**, **Factory**, **Delegate** and **Singleton** design patterns
* Created and maintained documentation for launching **HADOOP** Clusters and executing **Hive** queries, **Pig Scripts**.
* **Active MQ** was used to provide a single unifying transport that reduces cost and maintenance efforts, including support for **HTTP, REST**. And **WSDL** was used for publishing Web Service interfaces.
* Used **Rational Clear Case** for version control and **JUnit** for unit testing.
* Extensively used Selectors in **jQuery** for updating content on **DOM** nodes.
* Installed and maintained **NoSQL** Database **MongoDB**
* Used **GitHub** to maintain the versions of the source code of the project
* Used **Apache Camel** for message routing
* **Junit** tests were written to test each module in the application.

**Environment: Java/J2EE, Java Spring, XML, XSLT, JDBC, AJAX, JDBC, Oracle 10g, WSAD, IBM MQ, HTML, CSS, Ajax, RESTful, JavaScript, Hadoop, Angular JS, jQuery, Bootstrap, Eclipse, UML, Rational Rose, CVS, JUnit, MongoDB, GitHub, Apache, AWS, NoSQL, Docker.**

**Client: Commerce Bank, Cherry Hill, NJ May 2014 – June 2015**

**Role: Sr. Java/J2EE Full Stack Developer**

**Description:** Account Information System provides new functionalities to modify existing banking application, which supported Customer/Account relationship, Loan Account profile, Transaction and Account Management and Funds Transfer functions. I was involved in developing an enterprise web application that helps the organization in accepting and processing the payments in the form of electronic checks and provide the option for automatic enrolling in payment plan.

**Responsibilities:**

* Analyzed the business requirements of the project by studying the Business Requirement Specification document.
* The application is designed using **J2EE design patterns** and technologies based on **MVC** architecture.
* Used **HTML DOM** which is a standard object model and programming interface for HTML
* Used **AJAX and JavaScript** for validations and integrating business server-side components on the client side with in the browser.
* Used **NoSQL** database **Cassandra** for proof of concept and having experience in create a **Stored Procedures** and having experience in Remote Procedure call (**RPC**).
* Developed automated solutions to include web interfaces using **HTML, CSS, JavaScript** and **Web services**.
* Used **Spring MVC** as Web module, involved in design, development of new Action classes to interact with business logic and Used **Hibernate** as **ORM** to map Java classes to data base tables.
* Written **Web Services (JAX-WS)** for external system via **SOAP/HTTP** call.
* Creation of **WebLogic** domains and setup Admin & Managed servers for **JAVA/J2EE** applications on Non-Production and Production environments.
* Creation of Connection Pools, Data Sources in **WebLogic** console.
* Wrote **Docker files** for creating **Docker images** for **micro services** and **Docker containers**for environment. Used **Kubernetes**to deploy **Docker containers**.
* Used **Spring Framework** for developing the application. Implemented the persistence layer using Hibernate and configured Hibernate with spring to interact with the **Oracle Database** from the **DAO.**
* Used spring framework for middle tier and **Spring-hibernate** for data access.
* Involved in developing **SQL queries, stored procedures**, and functions.
* Developed complicated **SQL queries,** multiple joins and Stored Procedure for reports and business needs.
* Prepared and presented **UNIX** production and implementation schedules to the Project Manager and client.
* Used **AJAX and JavaScript** for validations and integrating business server-side components on the client side with in the browser.
* Created interactive data charts on customer portal web application using High charts JavaScript library with data coming from Apache **Cassandra.**
* Accessed Restful resources with **HTTP protocol**, the **URL** of the resource serve as the resource as the resource identifier and **GET, PUT, DELETE, POST and HEAD** are the standard operations.
* **Microservices** have been built using **Spring boot**, **Spring security** and deployed to **AWS cloud**.
* **JIRA** tool for project management used in the application to tack bugs, issues and project management functions.
* Worked on **Selenium** WebDriver with **Java and Test NG,Cucumber framework.**
* Implemented validation rules using **JBOSS BRMS** (Business Rule Management System), a version of **DROOLS**.
* ECAWS Worked with an agile team, involved in grooming the stories based on technical discussion with product owners, creating **JIRA** epics for the projects.
* Installed, maintained and fine-tuned the **Apache-Tomcat server** and **WebSphere Application Server** in **Linux Platform.**
* Experienced in build, deploy multi module applications using Maven and CI servers like **Jenkins**.

**Environment: J2EE, MVC, HTML, CSS, Java Scripting, AJAX, Cassandra, Shell Scripting, Hibernate, Spring, DAO, cucumber, JIRA, Apache-Tomcat server, Maven, ANT, IBM WebSphere, Docker, Kubernetes.**

**Client: Intermountain Healthcare (IHC), Salt Lake City, Utah July 2012 – Apr 2014**

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

**Description:** The Health Insurance Application allows customers to access their account online. This application provides employee to access customer information to process & authorize claims of the customers and generates free quotes for the customers depending on the type of insurance package they selected.

**Responsibilities:**

* Involved in design and developing phases of SDLC in Agile methodology.
* Developed the Front End using **HTML, JavaScript and CSS.**
* Wrote server-side programs by using **Servlets and JSP**
* Strong technical knowledge in **Core Java, J2EE and JEE** development. Extensive experience design and coding in **J2EE (Servlets, JSP)** Environment with **Eclipse IDE**.
* Involved in developing **UI** components using **AngularJS, HTML, CSS framework**
* Developed the middle tier using **EJBs, Java Servlets**. Developed **session,** entity beans and message driven beans.
* Worked on the **Spring MVC Restful Web services**, exposing services and consuming the third party.
* Wrote **Ant Scripts** to automate the build and deploy process
* Developed the application with spring **MVC, JSF, web flow framework** and **struts**
* Developed the User Interface Screens for presentation using **JSP, Angular 2, HTML and Java Script.**
* Work Exclusively with Core layer of Framework to Implement View Controller **in MVC** Architecture. Creating **SOAP Web Services using WSDL** to connect with external clients.
* Extensively worked with **XML using DOM and SAX parsers** for transferring the data between different components
* Developed the Junit test cases and **used GIT** as Distributed version control system. Used Log4j and commons-logging frameworks for logging the application flow
* Developed dynamic **EJS templates using HTML5, CSS3 and JavaScript.**
* Used in-built market place services of **PCF** for **RabbitMQ** config.
* Composed and executed **MongoDB** document scripts to insert, update NoSQL database, automating data changes, reporting and wrote **MongoDB** client to receive data from AMC for Companies.
* Worked with **D3.js** for generating reports and stats for customer services.
* Developed and deployed **EJBs on the server**.
* Extensively used **JDBC** to access the database objects.
* Created and implemented **PL/SQL** stored procedures, **triggers**
* Developed test cases for **TDD in Karma and Jasmine**

**Environment: Java, servlets, JSP, JEE, EJBs, MVC, JSF, struts, Angular2, Java Scripting, XML, Git, JDBC, PL/SQL, Eclipse, karma, jasmine, tomcat, stored procedures.**

**Client: Qwest, Denver, CO Oct 2010 – Jun 2012**

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

**Description:**Consulting+ is a web based order management system for Qwest residential service. Qwest Customer Service Representatives will use Consulting + thin client application to order various telephone services for the residential customers. This application replaces the existing thick client application to place the orders.

**Responsibilities:**

* Followed **Test Driven Development (TDD),** Scrum concepts of the Agile Methodology to produce high Quality Software, involved in System Requirements study and conceptual design.
* Experience in creating **JSON** files that mock the **Microservices** locally.
* Created prototypes in **HTML5, CSS3, JavaScript 1.8.x and jQuery 1.4 for different UI page**s such as Login, Register, User Information Summary, coupons, and Periodic payments.
* Expertise in Client Side designing and validations using **HTML, DHTML, and JavaScript**
* Extensively logged the data in the application **using Log4j** and used Eclipse as the IDE for the application.
* Made use **of jQuery, JSPs, HTML, JavaScript and CSS** to develop the frontend UI.
* Used **React JS** for creating components and to render views and to update the DOM dynamically.
* Used **Bootstrap, React JS** to create Controllers to handle events triggered by clients and send request to server.
* With the concept of **React JS** Worked on usage metrics and end to end events tracing for analysis purpose.
* Involved in maintenance of existing **PERL** application and wrote Perl scripts to enhance the application.
* Extensively worked with **XML** schema **(XSD), XSL/XSLT, and XML** to navigate in XML documents, and **SAX** to process and parse xml files.
* Extensively used **Java Scripts** to enforce client-side validations and also used jQuery for Ajax processing.
* Involved in development/ maintenance of various web services using **IBM WebSphere** to interact with other Applications.
* Developed programs for accessing the database using **JDBC** thin driver to execute queries, Prepared statements, Stored Procedures and to manipulate the data in the **DB2 database.**
* Tested the response format of **REST services in XML, and JSON.**
* Performed Installation, Configuration and Maintenance of production Cloud Environments such as **Tomcat, Apache**.
* Published and consumed stream of records using **Producer**and **Consumer APIs**with **Spring** for **Apache Kafka**.
* Developed a set of the application functionality using **CRUD (Create, read, update, delete)** features of Backbone.js.
* Used **SQL and PL/SQL** queries to perform database operations on WebSphere.
* Involved in **Core Java** coding by using **Java APIs** such as **Collections, Multithreading, Exception Handling, Generics, Enumeration,**and**Java I/O** to fulfil the implementation of business logic.
* Used **Java Messaging Services (JMS)** for reliable and asynchronous exchange of important information such as payment status report.
* Developed **XML** applications using **XSLT** transformations
* Created **XML** document using **XML API** to pass the **XML** structure to Web Services.
* Configured **WebSphere** Application server and deployed the web components.
* Used **Spring BOOT** to create stand-alone spring applications. Developed backend services using **Spring MVC, Spring Boot, Spring AOP and Dependency Injection and JPA.**

**Environment**: J**SP, AJAX, Struts framework, Hibernate Framework, JMS, React JS, SOAP, XML, Spring Framework, Java Script, HTML, SQL, PL/SQL, Web Sphere, Junit, CSS, Jenkins, Spring Boot, MVC, web Sphere, Kafka.**

**Client: ICrea Infotech, Hyderabad, India June 2009 – Sep 2010**

**Role: Java/J2EE Developer**

**Description:**This project is about comprehensive and integrated Hospital Management System for a Super Specialty Hospital. This package is used to computerize the activities of a servicing system. This package contains four modules. They are Administration, Patient Care System, Health Services, and Auxiliary Services. Each module is having sub modules with in this sub modules will maintain storing, registering, details of joining patient details, and over all day activities maintains one database.

**Responsibilities:**

* Worked with **OOPS** concepts and developed the project for Mobile Application.
* Developed the Web Services using Core Java and **XML.**
* Designing **UI screen** for Insurance Quote to get User information with **JSP.**
* Used **Struts** Framework in the application which is based on **MVC** design pattern.
* Writing custom tag handlers for Insurance Quote page to calculate the age of the person using the date of birth information entered.
* Developing Action Classes, Service Classes for Resident Insurance Premium payment module.
* Developed reusable **web components, JSP, Servlets and Java Beans that use the MVC pattern** to access EJB (Entity Beans) for the modules of user registration.
* Used **DB2** as the Backend for the application.
* Deployed Applications on **Apache Tomcat** Server.
* Writing **PL/SQL** Queries to get schedule of policy payment and defaults.
* Developing Session beans, Entity for Insurance Quotes.
* Involved in unit **testing, troubleshooting and debugging.** Modifying existing programs with enhancements.
* Developed the Training and Appraisal modules using **Java, JSP, Servlets and JavaScript.**
* Fixing the bugs identified in test phase.

**Environment: Java, JDK 1.6, JSP, Web Services, XML, Oracle, Eclipse, Struts, servlets, MVC Pattern, JavaScript, Apache Tomcat, PL/SQL.**