Project Report

INDIRA GANDHI NATIONAL OPEN UNIVERSITY

MCSP - 232

Movie Ticket Booking System

by

Vishwas Bhati

Enrollment No: 2300988066

Under Guidance

of

Shantanu Kumar

Submitted to the School of Computer and Information Sciences, IGNOU

in partial fulfilment of the requirements

for the award of the degree

Master of Computer Applications (MCA)

December 2024

Indira Gandhi National Open University
Maidan Garhi
New Delhi – 110068.

Shantanu Kumar

Mobile: +91 8826313018   **E-mail: Shantanu5521@gmail.com**

SUMMARY:

5+ years of professional experience in Object Oriented development, implementation and maintenance of **web and distributed Enterprise applications** using **Java/J2EE technologies**.

♦ Experience in client server, multi-tier applications and Web technologies using Java/J2EE technologies involving **System Analysis, Design, Technical Architecture, Development, Unit Testing and Implementation.**

♦ Solid experience in **Kubernetes, Docker** and **AWS EC2, CloudWatch.**

♦ Solid experience in **leading the team globally located** in order to execute the projects.

♦ Strong experience in **Enterprise, MVC Architecture and SOA Architecture** etc.

♦ Good experience in technologies like **Spring Framework 4.0, Hibernate 3.0 and JPA.**

♦ Experience in developing web applications using technologies like **HTML, XML, Java Script, Angular, JQuery, AJAX, CSS, Node.js, JSP Tag libraries and Tiles.**

♦ Experience in **OOP**, **Object Oriented Analysis (OOA) and Design (OOD) using UML.**

♦ Strong experience in developing **Web Services** using **Spring Boot**, **REST, SOAP, WSDL** and solid knowledge in **SOA** and testing services using **SOAPUI and Postman** tools.

♦ Experience in using **Jenkins, ANT and Maven** build tools in building and deploying the applications in web/App servers and logging using **log4j**.

♦ Experience in **SDLC, DevOps and Agile development (SCRUM)** methodologies.

♦ Expertise in **JEE Design Patterns** such as **MVC, Singleton, DAO, Composite view.**

♦ Experience in developing and deploying JEE components on application servers such as **WebLogic Server 10.0/11g/12c, Apache Tomcat** and **IBM WebSphere 7.0/8.0/8.5.**

♦ Experience in User Interaction, Business Analysis, Development, Integration, Documentation, Testing, Deployment, Building, Configuration and Production/Customer Support, Maintenance and Enhancements of both **Web and Client/Server Technologies.**

♦ Strong experience in Configuration tools like **GITHUB, GIT, CVS, and SVN.**

♦ Strong Experience in Relational database like **DB2, Oracle 9i/10g/11g/12c (SQL & PL/SQL)**.

♦ Good domain knowledge in **Telecom, Network Management System (NMS), Health care, and Legal** sectors**.**

♦ Experience in developing and deploying applications using **Cloud and AWS** and great exposure to most commonly used services like **EC2, VPC, S3, RDS, Route 53, ELB and Auto Scaling.**

♦ Good understanding of container based deployment and management using **Docker and Kubernetes.**

♦ Ability to handle multiple tasks and to work independently as well as in a team, experienced in interacting with **Business and Technology groups**.

♦ Worked for **Fortune 500 companies** including Verizon Business, Cisco, MetLife and LexisNexis.

EDUCATION:

• **Bachelor of Technology [**I.T**]** from Narayana Engineering College GUDUR.

• **Board of Intermediate Education** from Sanghamitra Junior College.

• **Board of Secondary Education** from Lily Little Flower High School.

- **Operating Systems**   **:** Windows 7/10, Linux, UNIX, MAC
- **Java Skills**   **:** JDBC3.0, Servlets2.4, JSP2.0, JMS, Kafka, EJB3.0, Java Beans
- **Frame works**   **:** Struts1.3/2.0, Spring4.0, Hibernate3.0, iBatis3.0, JPA
- **Web Services**   **:** REST, SOAP, WSDL, JAXP, JAXB, Apache Axis, CXF
- **Languages**   **:** Java, SQL, PL/SQL
- **RDBMS**   **:** Oracle9i/10g/11g/12c, SQL Developer
- **Web Technologies**   **:** HTML, XML, AJAX, JavaScript, Node.js, Angular, JQuery
- **Scripting languages**   **:** JavaScript, JSON, UNIX Shell Script
- **Tools**   **:** ANT, Maven, Log4J, JUnit, Docker, Kubernetes, Postman
- **Web/App Servers**   **:** Tomcat 6.0, WebLogic 10.0/11g/12c, JBoss, WebSphere 8.0/8.5
- **Version Control tools** **:** GitHub, SVN, CVS
- **IDES/Tools**   **:** STS3.9, Eclipse4.2, Net Beans, RAD 7.5/8.0/9.1.0, Jira, Cisco QDETS, TOAD, SQL Developer

PROFESSIONAL EXPERIENCE:

Java Developer
Client: Department of Health and Human Services (DHHS) / GrantSolutions (GS)
GMM/GS Application development
GrantSolutions supports Federal agencies throughout the full grants lifecycle – from pre-award planning through application, award, and closeout. As a shared service provider, GrantSolutions offerings solve for shared mission needs across agencies while incorporating unique business and regulatory processes for grant programs.

Responsibilities:
- Involved in developing a new Financial Interface from scratch for USDA-FMMI.
- Involved in **analysis, detailed design, design reviews, code refactoring**, development, code reviews, unit testing, performance tuning, integration testing, regression testing and Acceptance testing of the various use cases that are part of our development tasks.
- Designed and developed **Microservices business components** and **RESTful service endpoints** using **spring boot.**
- Responsible for **Java, J2EE, Hibernate, Spring (Batch, Boot, MVC), Web Services** components design and coding/development.
- Involved in gathering WSDL's from partner services team.
- Implemented security features in the UASD financial interface to have proper handshake with external partners.
- Involved in building **micro services** in AWS **ECS**, setting up **route53, Target groups, Auto scaling** on load balancer. Pushing java code using **docker image.**
- Application development using **STS IDE,** building of applications with **Maven scripts,** testing of application**.**
- Involved in writing DAO layer using **Hibernate** to access the **Oracle** database.
- For application logging, notification, tracing mechanisms used **Log4J** and executing unit test cases using **JUnit and Mockito.**
- Used **Jenkins** for continuous integration and **Maven** for building the EAR file.

- ♦ Conduct thorough testing in **Development integration, Systems integration**, and Business Acceptance testing environments.
- ♦ Responsible for setting up **continuous integration** and continuous delivery pipelines.

Environment: JDK1.8, Spring 4.0, JPA, Spring Boot, Oracle12c, JSON, OAuth 2.0, Log4J, SOAP UI 5.2, AWS, Postman, JWT, Restful Web Services, Jira, Maven, Tomcat 6.0, Jenkins, STS, Git, Junit, Mockito, SQL, PL/SQL, UNIX, Windows

Sr. Java/JEE Developer/Team lead
NC/Infosys
XO/SNM Integration
XO/SNM Integration is the VzB application that takes care of configuring, setting up and 'talk' to the network devices, such as routers and switches. As part of XO/SNM integration, we have to migrate all the **XO related User profiles, Customer orders, Sites, Switches, Routers, Circuits, NNI'S and also PVC'S**. So that VzB applications can read that data in the network and sync up with the existing VzB features. The most important work being done by SNM is the network inventory! SNM was originally created as a network inventory application, in charge of storing the current status of all network elements, such as devices, ports, etc. The intension of the application is to keep in synch SNM database and network devices of XO at all time, so we can easily recognize where we have some capacity, port to connect a new customer.

Responsibilities:
- ♦ Participate in **requirement gatherings** and the **project kickoff meetings** to share expertise.
- ♦ Experience in taking a leading role in **building complex software systems.**
- ♦ Experience in **leading the team and mentoring the junior developer**s in design and development efforts.
- ♦ Involved in the development of presentation layer and GUI framework using **JSP**, **JavaScript, CSS, HTML, Angular** and client side validations were done using **JavaScript.**
- ♦ Implemented **modern engineering, DevOps and CI/CD programs** and best practices using **Jenkins, Maven and GIT.**
- ♦ Responsible for Design, Develop components for various **Routers and Switches** as part of **SNM/XO integration**.
- ♦ Involved in building **micro services** in AWS **ECS**, setting up **route53, Target groups, Auto scaling** on load balancer. Pushing java code using **docker image.**
- ♦ Application development using **STS IDE,** building of applications with **Maven scripts,** testing of application with **Web Logic 10.3.**
- ♦ Involved in writing DAO layer using **Hibernate** to access the **Oracle** database.
- ♦ For application logging, notification, tracing mechanisms used **Log4J** and executing unit test cases using **JUnit and Mockito.**
- ♦ Used **Jenkins** for continuous integration and **Maven** for building the EAR file.
- ♦ Conduct thorough testing in **Development integration, Systems integration**, and Business Acceptance testing environments.
- ♦ Responsible for setting up **continuous integration** and continuous delivery pipelines.
- ♦ Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
- ♦ Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.

SCHOOL OF COMPUTER AND INFORMATION SCIENCES
IGNOU, MAIDAN GARHI, NEW DELHI – 110 068

II.   PROFORMA FOR THE APPROVAL OF MCA PROJECT PROPOSAL (MCSP-232)

(Note: All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete proforma of approval in any respect will be summarily rejected.)

Enrolment No.: 2300988066

Study Centre: 0758P NSIC

Regional Centre: Delhi-1 **RC Code:** 07

E-mail: vishwasbhati96@gmail.com

Mobile/Tel No.: 9999270051

Project Proposal No :……………………..
(for office use only)

1. Name and Address of the Student:
Vishwas Bhati House No-39 St no-3 Siyaram Encalve
Gurugram Harayana -122102

2. Title of the Project***:
Movie Ticket Booking System

3. Name and Address of the Guide:
Shantanu Kumar - Baliyari Post Sukhet Jhanjharpur Dis Bihar-
847404

4. Educational Qualification of the Guide:
   (Attach bio-data also)

Ph.D*	M.Tech.*	B.E*/B.Tech.*	MCA	M.Sc.*
☐	☐	☑	☐	☐

(*in Computer Science / IT only)

5. Working / Teaching experience of the Guide**:……………………………………………………
5+ years of Industry Experience in java Development backend development

(**Note: At any given point of time, a guide should not provide guidance for more than 5 MCA students of IGNOU)

6. Software used in the Project***: Frontend:Bootstrap   Backend:java Springboot
(*** Please refer to section VIII of these guidelines)

7. Is this your first submission?   ☐ Yes   ☐ No

Signature of the Student
Date: …………………

Signature of the Guide
Date: ……………………

For Office Use Only

☐   ☐

Approved   Not Approved

Name:……………………….............

……………………………………….
Signature, Designation, Stamp of the
Project Proposal Evaluator
Date: …………………….

Suggestions for reformulating the Project:

Ensure that you include the following while submitting the Project Proposal: