



## **JOB DESCRIPTION**

Job Title : Software Architect / Sr. Software Engineer ( Java/ J2EE )  
Reports To : Software Engineering Manager  
Division/Dept : Software Engineering Department

### **1. JOB PURPOSE**

To produce efficient, maintainable and robust software with a view of being involved in the end to end software development process and production of high quality artifacts such as code, test cases, user guides and others.

To provide technical guidance and leadership to project team members as well as advising project managers on technical aspects of project





## **2. KEY ACCOUNTABILITIES**

### **Design/Architect**

- Participating in requirements gathering and elicitation
- Complementing system requirements by quantifying non functional requirements
- Translating business requirements and business rules into technical specification
- Depicting and delineating system processes and flows using various system engineering tools, charts and diagrams
- Software Architects advises Project Managers on technical items & issues on a project

### **Programming**

- Manifestation of business and system requirements through coding
- Code and query optimisation to increase code readability and to enhance performance of applications.
- Defining and maintaining coding standards and naming conventions through documents and code review.
  1. Reviewing is done by senior engineers to architects and verified by Software Engineering Manager. This is to ensure software written is easily and maintainable by everyone if the team.
- Exploring, accessing and piloting new technology and framework by embracing the learning curve through never ending learning process, discussion and knowledge sharing sessions, this is common to everyone in team.
- Ensuring projects/product worked on can be built automatically and regularly on continuous integration servers (e.g. hudson)
- Maintaining and updating knowledge content in portal (wiki and automaton)
  1. This is done by all software engineering project team members but accountability lies in software engineering project team lead.





## **Testing**

- Conduct unit testing and establishment of test data for unit testing
- Advising QA on discrepancy and feasibility of QA artefacts during QA artefacts reviews and system requirements

## **Release Management**

- Troubleshooting system deployment in test environment. This is done via the dev environment since test environment is off-limits for developers
  - Preparing release note assist SI team in production deployment.
  - Assisting and participating in system support and troubleshooting when requested by SI team.
1. Software Engineering team members in a project are usually 3<sup>rd</sup> / 4<sup>th</sup> level support line where support requests are handled during normal office hours.

## **Presales**

- Preparing prototype for demo for presales requirements or for technology showcase.
- Writing technical write-ups for proposals





#### 4. QUALIFICATIONS, SKILLS AND KNOWLEDGE

##### **EDUCATIONAL QUALIFICATIONS**

Candidate must possess at least a Diploma, Advanced/Higher/Graduate Diploma, Bachelor's Degree, Post Graduate Diploma or Professional Degree in Computer Science/Information Technology or equivalent.

##### **RELEVANT EXPERIENCE**

- 4 + years solid Java coding experience
- Strong skills in Java, J2EE, XHTML, JSP, XML, XSLT, SOAP
- Strong knowledge of Internet communication protocols (HTTP) and relevant Web Service standards
- Passion for open source technology, regularly using projects at Apache Jakarta, OpenSymphony. Contribution to open source projects are highly regarded.
- Excellent understanding of developing in both Unix/Linux and Windows environments
- Skill in Jboss, Oracle database, PL/SQL, Perl, Python, Ruby would be advantageous
- Experience of the principles of Object Oriented design and modeling OO design in UML
- Experience in the implementation of Java Design Patterns
- Experience in developing Internet or Mobile Internet applications is preferred

##### **PERSONAL CHARACTERISTICS AND BEHAVIOURS**

- Excellent interpersonal and good communications skills in English

