**ABSTRACT**

Developing a model for an industrial strength software system prior to its construction or renovation is as essential as having blue print for large building. Good models are essential for communication among project teams and to assure architecture soundness. As the complexity of systems increase, so does the importance of good modeling techniques. In order to understand the importance of these techniques I have undergone this training and have been taught on some of the basic and important concepts which are necessary to build working system software and these concepts are namely:

* Basic java
* Java server page
* Servlets
* JDBC
* Ajax
* Web services
* Angular JS
* UML

Basic java: Java is a high-level programming language originally developed by Sun Microsystems. Java runs on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX.

Java server page: It is a technology that helps software developers creates dynamically generated web pages based on HTML, XML, or other document types, it is similar to PHP and ASP, but it uses the Java programming language.

Servlets: A java Servlets is a java program that extends the capabilities of a server. Although Servlets can respond to any types of requests, they most commonly implement applications hosted on Web servers. Such web Servlets are the java counterpart to other dynamic web content technologies such as PHP and ASP.NET.

JDBC: Java Database Connectivity is an application programming interface for the programming language Java, which defines how a client may access a database. It is Java based data access technology and used for Java database connectivity. It is part of the java standard edition platform, from Oracle Corporation.

Ajax: It stands for Asynchronous JavaScript and XML. In a nutshell, it is the use of the [XMLHttpRequest](https://developer.mozilla.org/en/DOM/XMLHttpRequest) object to communicate with servers. It can send and receive information in various formats, including JSON, XML, HTML, and text files.

Web Services: The term “web service” describes a standardized way of integrating web-based applications using the XML, SOAP, WSDL and UDDI open standards over an internet protocol backbone.

Angular JS: It is a JavaScript-based open source front-end web application framework mainly maintained by Google and a community of individuals and corporations to address many of the challenges encountered in developing single-page applications.

UML: The Unified Modeling Language is a general-purpose, developmental, modeling language in the field of software engineering that is intended way to visualize the design of the system.

By using these as our basics I had been assigned a topic on which I was asked to design a Web page on Elective Registration System. The following states the question:

