For this Lab4 assignment, you will perform a first iteration of Architectural Analysis and produce an initial System (Solution) Architecture, for your course project. Having created the Vision document and with a good understanding of the problem you wish to implement a solution for; and having also done the Requirements analysis and identified the various Use-cases, you are now ready to perform architectural analysis and then select a suitable system architecture; taking into consideration all the existing constraints and the various guidelines/factors which you learnt about in lesson 6.

From this activity, you will produce an initial draft of a High-level System Architecture diagram, which will form part of your course project's technical documentation, along with the SRS and Vision documents. Also, include the Key Abstractions which you have identified for the project.

Attached, is a sample architecture diagram, which you may use as a guide.

**Initial System Architecture**

* **System type:** Web Application

**Architectural Mechanisms**

|  |  |
| --- | --- |
| **Distribution of components** | Web Services - SOAP or RESTFUL |
| **Transaction Management** | JDBC |
| **Concurrency** | JEE Server or Tomcat |
| **Persistence (Object Relational Mapping)** | Hibernate or SimpleORM or Avaje |
| **Security** | Java Authentication and Authorization |
| **Rules engine** | Unknown |
| **Wrapping of legacy systems** | Unknown |
| **Web Application Framework** | SpringMVC, Angular, Vue or React |
| **User Interface Framework** | Bootstrap or Material Design |

### **Key Abstractions**

* Customer
* Admin
* Car
* Registration

