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# 101131147 | MONIQUE KUHN

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SWE30010 Development Project 2: Design, planning and Management

**Project Proposal:** PHP-SRePS

### **Background**

Please visit the project documentation generated up till this point at: https://github.com/Wabi-Mink/DP2 pass/wiki

#### **Resources**

- https://existek.com/blog/web-application-architecture/
- https://existek.com/java-application-development-services/
- <a href="https://www.devteam.space/blog/why-should-you-use-java-for-your-backend-infrastructure/">https://www.devteam.space/blog/why-should-you-use-java-for-your-backend-infrastructure/</a>

#### **Solution Direction**

The team proposes the development of a desktop application which interfaces with a database. The database will enable storage and manipulation of sales data.

There are numerous ways to achieve this, and selecting the best option depends on the team's abilities and suitability of the solution. Some possible routes include:

- Storing Data locally
- Hosting database on mySQL
- Ruby and Rails web application
- Using windows forms for application
- Storing data with cloud-based solutions
- Outsourcing and using a GUI for front end development
- Java web app

In this document, I am proposing a Java-based web application for the following reasons:

- Versatile framework
- Well documented online with many resources
- It is acclaimed to be simple & easy learn which is suitable for a team with varying experience
- Most students involved in the project have experience with C/C++ which rings similar to Java
- It is considered a secure language
- It supports object-oriented programming and multithreading

In such an application the following elements will be required:

Element	Brief Description	Roles/Responsibilities
Web Browser	software application for accessing information	Access the website and interact as designed
Web Container	Manages lifecycle of servlets; handling requests and access-rights	Servlets don't have a main() method so the container loads them
EJB Container	The Enterprise java bean contains business logic	Life cycle management, security, transaction management, object pooling
Database	Structured set of data held in a computer	Organizes data; storing & accessing requested information as required

## Java-based web application server

## Client/User Machine Enterprise Server

