**ASSIGNMENT 2**

**Case Study: Vaishnavi Supply Chain Management System**

Vaishnavi, a leading entity in its field, partnered with Interstate to develop a new supply chain management system. The project’s large scope, complex features, and many stakeholders made it a perfect example of the SDLC phases’ implementation.

* **Requirement Gathering**: Vaishnavi supply chain was complex and data-heavy, involving many stakeholders and suppliers worldwide. The old system had noticeable frictions resulting in efficiency bottlenecks. The main requirement was to create a robust online supply chain solution that would encompass the entire logistics process.
* **Design**: The design phase involved planning how to streamline data input and eliminate redundancies from the old system. The goal was to ensure a coherent line of communication and cooperation with all involved suppliers.
* **Implementation**: The implementation phase saw the development of the new supply chain management system. This phase brought the design to life, transforming the plans into a functional system.
* **Testing**: The testing phase ensured that the new system worked as expected. Any bugs or issues identified during this phase were fixed before the system was deployed.
* **Deployment**: The deployment phase involved integrating the new system into Vaishnavi existing infrastructure. This phase marked the delivery of the product to the client.
* **Maintenance**: Post-deployment, any issues or changes were noted for the next cycle. This allowed for continuous improvement and adaptation to changing requirement.
* **Evaluation**

The implementation of the SDLC phases contributed significantly to the project’s outcomes. The Requirement Gathering phase helped identify the key issues with the old system and set the direction for the project. The Design phase provided a road map for the developers, while the Implementation phase brought the plans to life. The Testing phase ensured the system was error-free, and the Deployment phase marked the delivery of the product to the client. Finally, the Maintenance phase allowed for continuous improvement and adaptation to changing requirements. This case study demonstrates the importance of each SDLC phase in ensuring the successful delivery of a software product.