GP1008	Design and Development of SOA for MSRSAS Accounts Department		
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Enterprise computing refers to business-oriented information technology which is critical to a company's operations. Enterprise computing is usually seen as a collection of big business software solutions to common problems such as resource management and streamlining processes. Large organizations require efficient distributed information management systems. Such enterprise systems can be efficiently designed using service oriented computing.

The project "SOA for MSRSAS Accounts Department" is based on the Service Oriented Architecture; an information technology approach in which applications can make use of SOAP based Web Services available on the network. Services provide specific functionality, typically business functionality, and Web Services provide a standardized way of integrating web based applications using web technologies and open standards over an Internet Protocol backbone. The project is developed in Enterprise Java platform following V-Model development process. It uses remote procedure calls to provide Web Services, JSP pages to implement application server logic, and MySQL to interact with databases.

The system consists of two servers authentication server and accounts server and a client which acts as portal to access the accounts system. The application server provides the interface to users for usage of services. The DNS registry helps in locating the servers that provide the services. The Authentication server authenticates the registered users such as students and staff. Once they are authenticated, they are redirected to the accounts server to access their services respectively. The accounts server holds services such as users can make payments, view payments, view salary slips and issue receipts.

The system is designed, developed and tested using computing resources provided by the MSRSAS. The system works well and meets the requirements listed by the MSRSAS accounts department. The developed project is SOA based and this approach could be utilized in other related project works at the enterprise level. Registry implementation is possible using DNS as the system is integrated with light weight services.
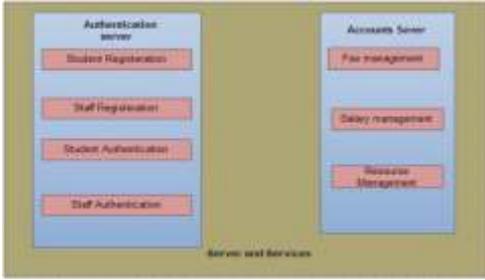
Development stages and result