Assignment 7.3 – From Legacy to SOA

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WEB-420

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Instructor: Prof. Krasso

To: Legacy Corporation CEO

From: Jonathan Roland

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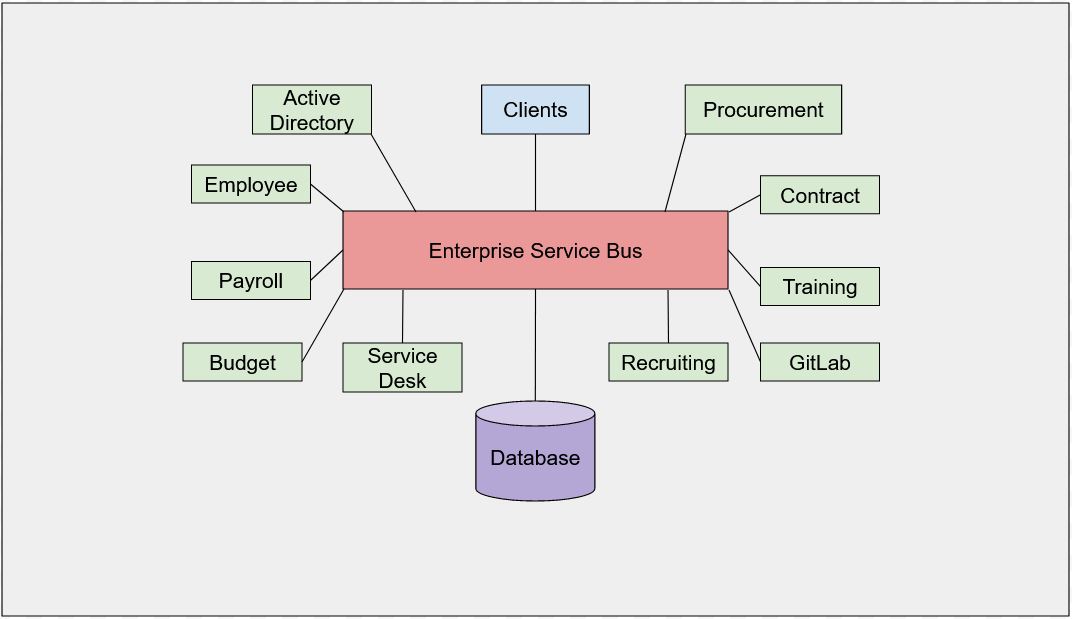
Subject: From Legacy to SOA

Legacy Corporation’s applications serve a broad array of users, and as a result the company has accumulated a wide array of standalone applications. Each one targets a specific user type and runs in isolation. By transitioning from monolithic applications to a Service Oriented Architecture (SOA), Legacy Corporation can meet the future with scalable capability, quick development through code re-use, and modular services to meet changing needs. The current application structure is modelled below:

![Diagram

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Service Oriented Architecture is a style of software organization wherein all application needs are met by services which focus on specific areas of concern. Each service is connected through and Enterprise Service Bus, which translates the often-differing data communication formats of each service. Examining Legacy’s current application structure, we can identify each area of concern and begin to profile a services structure:



The following are recommendations for the order and impact of transition (from lowest to highest) from existing monolithic application systems to a service-oriented model:

* GitLab
  + Priority: Low
  + Impact: Dev group only
* Training
  + Priority: Low
  + Impact: Large window between training certification periods allows time for transition.
* Recruiting
  + Priority: Low
  + Impact: Transition window can target low recruiting windows.
* Procurement
  + Priority: Medium
  + Impact: Transition can be negotiated for lowest impact window with procurement schedule.
* Service Desk
  + Priority: Medium
  + Impact: Transition will need to be highly focused to minimize outage window for support access.
* Contract
  + Priority: Medium
  + Impact: Contract creation frequency allows a planned transition window, but must be done quickly to not disrupt this critical capability.
* Active Directory
  + Priority: High
  + Impact: Active Directory is very important for internal communications. This transition needs to be well vetted and done during a low employee engagement time such as a weekend.
* Employee
  + Priority: High
  + Impact: Employee systems are important so this transition should follow a similar strategy to Active Directory.
* Budget
  + Priority: Very High
  + Impact: This is a critical system and must be transitioned with utmost care.
* Payroll
  + Priority: Very High
  + Impact: This is a critical system and must be transitioned with utmost care.

Once these applications are thoroughly mapped, we can develop each distinct service. After thorough testing of each service, we can then refer to our map of functional needs in each application and rebuild each one as a ‘stack’ of services required. Iterating over this approach will account for most of the SOA environment transition.

An additional effort will be to build our ESB to keep each service decoupled. This critical step ensures that services remain modular for better code reuse, debugging, and exchanging for similar services if needed. The Enterprise Service Bus will also allow us to integrate external services as needed without any communications issues between services.

The importance of transitioning to SOA is not to simply reshuffle our applications, but to find areas where we can normalize common functions between applications into services. These services are then available for reuse as future applications can discover functional needs are already met by existing code. Eventually, with enough services, some applications can be built entirely through stacking existing services together, saving tremendous amounts of time.

With a transition to SOA, the future of Legacy Corporation’s software could rapidly accommodate new ideas like this: a recruiting application for the development team that uses the Recruiting and GitLab services to pull in a programming test and load results to the recruitment team.

![Diagram

Description automatically 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