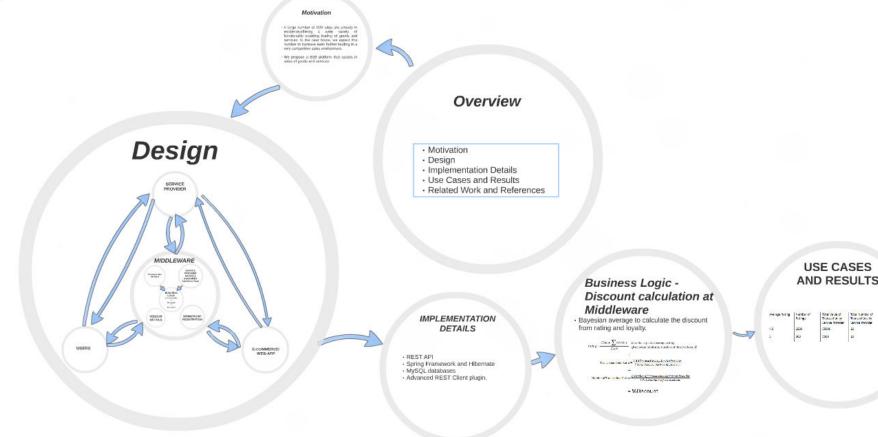
Reputation Based Enterprise Sales Service Provider

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Overview

- Motivation
- Design
- Implementation Details
- Use Cases and Results
- Related Work and References

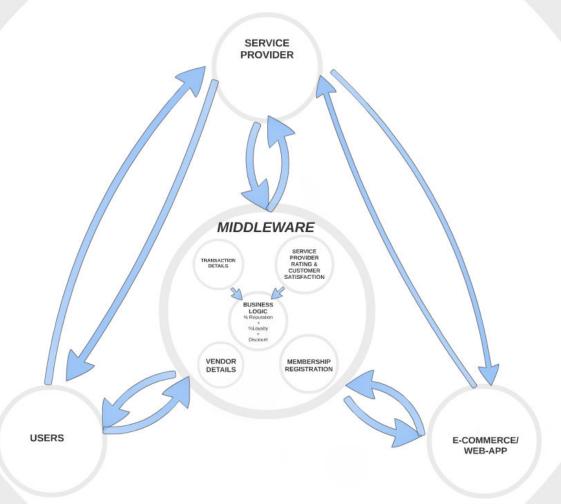


Motivation

- A large number of B2B sites are already in existence, offering a wide variety of functionality enabling trading of goods and services. In the near future, we expect this number to increase even further leading to a very competitive sales environment.
- We propose a B2B platform that assists in sales of goods and services



Design





MIDDLEWARE

TRANSACTION DETAILS

SERVICE
PROVIDER
RATING &
CUSTOMER
SATISFACTION



% Reputation

+

%Loyalty

=

Discount

VENDOR DETAILS

MEMBERSHIP REGISTRATION

IMPLEMENTATION DETAILS



- Spring Framework and Hibernate
- MySQL databases
- Advanced REST Client plugin.





Business Logic -Discount calculation at Middleware

 Bayesian average to calculate the discount from rating and loyalty.

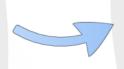
$$rating = \frac{C \times m + \sum reviews}{C + N}$$
 m is the expected average rating, given some minimum number of observations, C +
$$\frac{\sum All\ Transactions\ by\ Service\ Provider}{\sum Total\ Sales\ of\ the\ Web\ Application} + \\ \text{Number of\ Transactions\ Ratio} = \frac{\sum NUmber\ of\ Transactions\ by\ Service\ Provider}{\sum Total\ number\ of\ transactions}$$

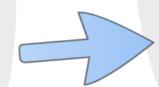
$$= \% \text{Discount}$$



USE CASES AND RESULTS

Average Rating	Number of Ratings	Total Value of Transaction by Service Provider	Total Number of Transactions by Service Provider	Discount Calculated by Middleware
4.5	1500	\$5000	20	11%
5	500	\$500	10	4.5%

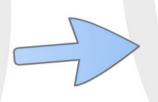






RELATED WORK AND REFERENCES

- A platform for business-to-business sellside, private exchanges and marketplaces by J. Sairamesh and C. Bender
- Service Communities: Applications and Middleware by Stefan Tai - IBM Research
- Computing a Bayesian Estimate of Star Rating Means - Benjamin Bengfort
- Bayesian Model Averaging by Jennifer A. Hoeting, David Madigan







THANK YOU

