

Mortgage Calculator

The aim of this system is to provide guidance to someone on what loan they could obtain, based on current rate of interest, length of loan, and monthly income (after tax). Could be used as part of a property search system, and possibly internally by an estate agent.

We have stereotyped dependencies from presentation tier to business tier as *remote*, and loan calc component as a stateless session bean. Web interface component will be a *view*, such as a PHP, JSP, ASP or other component designed to generate web pages.

LoanCalc

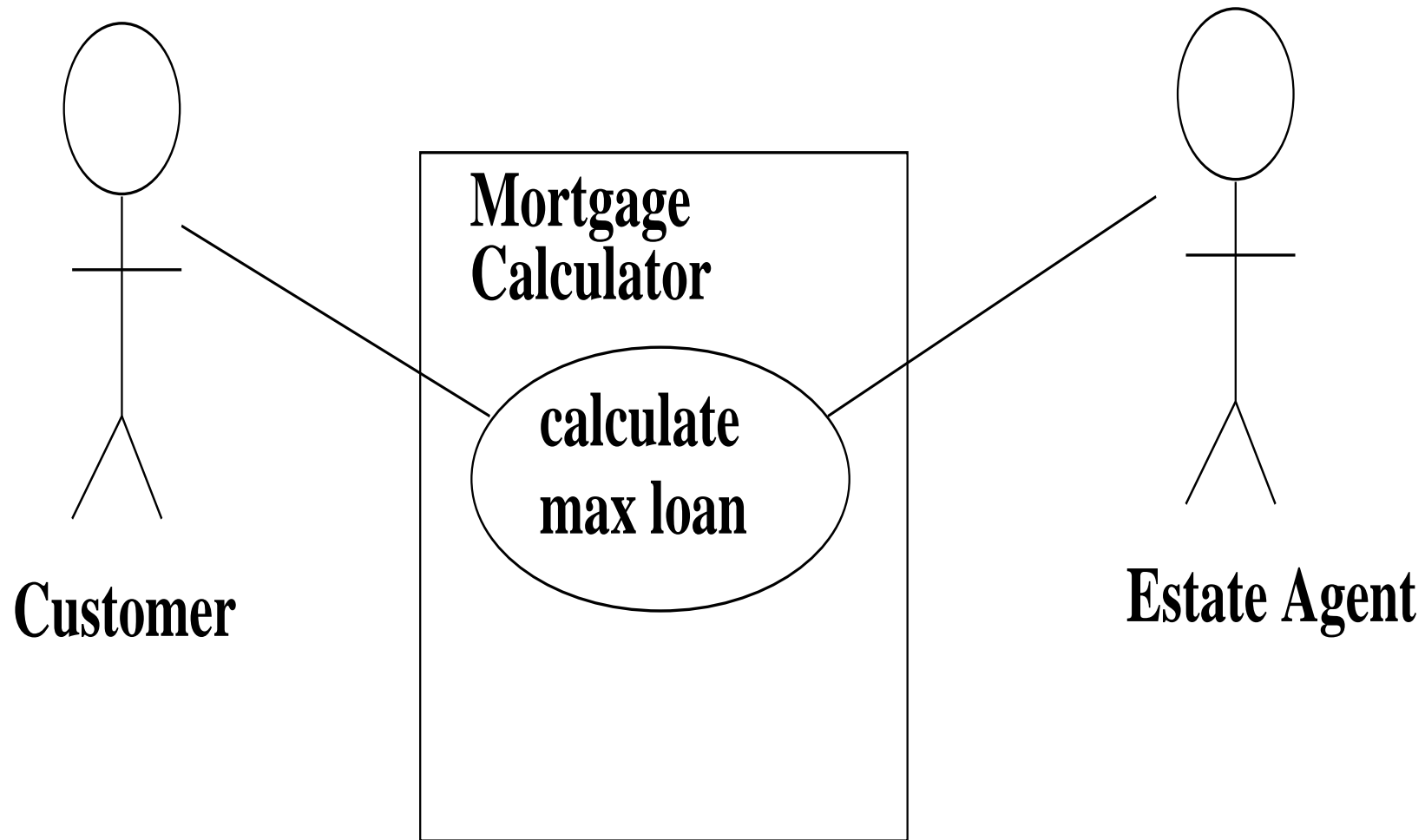
**maxLoan(rate: Integer,
years: Integer,
sal: Integer): Integer**

**pre: rate >= 0 &
years >= 0 & sal >= 0**

post:

**result = (400*years*sal)/
(rate*years + 100)**

PIM class diagram of loan calculator



Use case diagram of loan calculator

Presentation Tier

**Loan
Client**

**<<view>>
Loan
Calc**

<<remote>>

<<remote>>

Business Tier

**<<stateless
session bean>>
LoanCalc**

PIM design of loan calculator