Rational Software

Payroll System Architectural Analysis Solution

Version 2004

Revision History

Date	Issue	Description	Author
09/01/2000	2000	Generation for beta	Shawn Siemers
10/2/2000	2000	Final release	Shawn Siemers
01/14/2003	2000	Final Release	Alex Kutsick
05/20/2004	2004	Generation for beta	Alex Kutsick

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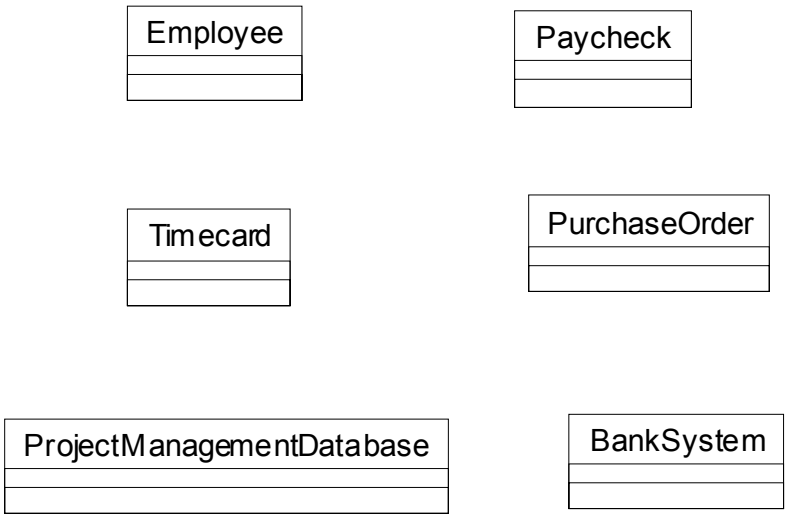
1. Exercise: Architectural Analysis

1.1 Key Abstractions



1.1.1 Key Abstraction Definitions

BankSystem: The external system(s) to which all direct-deposit transactions are sent.

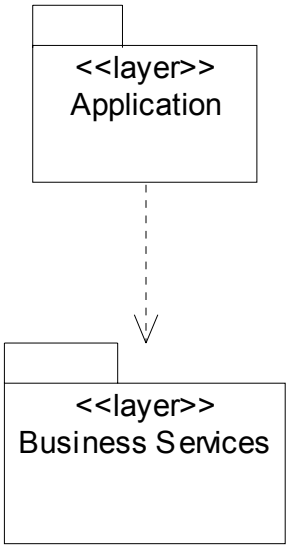
Analysis Mechanisms: Legacy Interface
Employee: An employee that is paid by the hour.
Analysis Mechanisms: Persistence, Security
Paycheck: A record of how much an employee was paid for a given pay period.

Analysis Mechanism: Persistence, Security
ProjectManagementDatabase: The legacy database containing information regarding projects and charge numbers.

Analysis Mechanisms: Legacy Interface
PurchaseOrder: A record of a sale made by an employee.
Analysis Mechanisms: Persistence, Security
Timecard: The timecard contains information regarding the hours worked by an employee for a given time period.

Analysis Mechanisms: Persistence, Security

1.2 Upper-Level Layers and Their Dependencies



1.2.1 Layer Definitions

Application: The Application layer contains application-specific design elements.

Business Services: The Business Services layer contains business-specific elements that are used in several applications.