Model-driven Software Development (MDSE) for the Cloud

Internet Bank Portal (IBP) – Business modelling scoping exercise

Outline

- Internet Bank Portal (IBP)
  - Introduction

- Hands-on exercise
  - Create a rich picture/domain model (flip-over)

Internet Bank Portal (IBP)

- Internet Bank Portal (IBP)
  - Cloud-based application
  - running on Amazon Elastic Compute Cloud (EC2)
- Series of hands-on exercises
  - business and architecture modelling
  - requirements and design
  - code generation and implementation
  - deployment into the Cloud
- Hands-on focuses on the server-side (Web Services)
  - a simple GUI client is provided

IBP: Context

- Web portal client
  - Login
  - Show account info
  - Show transaction history
  - Pay bill

- Cloud services
  - Create account
  - Get account info
  - Get transaction history
  - Deposit money
  - Pay bill

IBP: Hands-on exercise #1

- Create a rich picture/domain model
    - Domain model in a rich picture (or more formal) including main concepts, their relations and interactions
    - What is the scope for implementation?

IBP: Rich Picture

- User **emits** Account Request
- Account Request **validates** Approver
- Approver **verification** Bank
- **results**
- User **pay bill** Account
- Account **managed by** Bank
- Account **deposits salary** Employeer
- User **money**
- Account **balance** Savings/Funds
- Account **history** Transaction