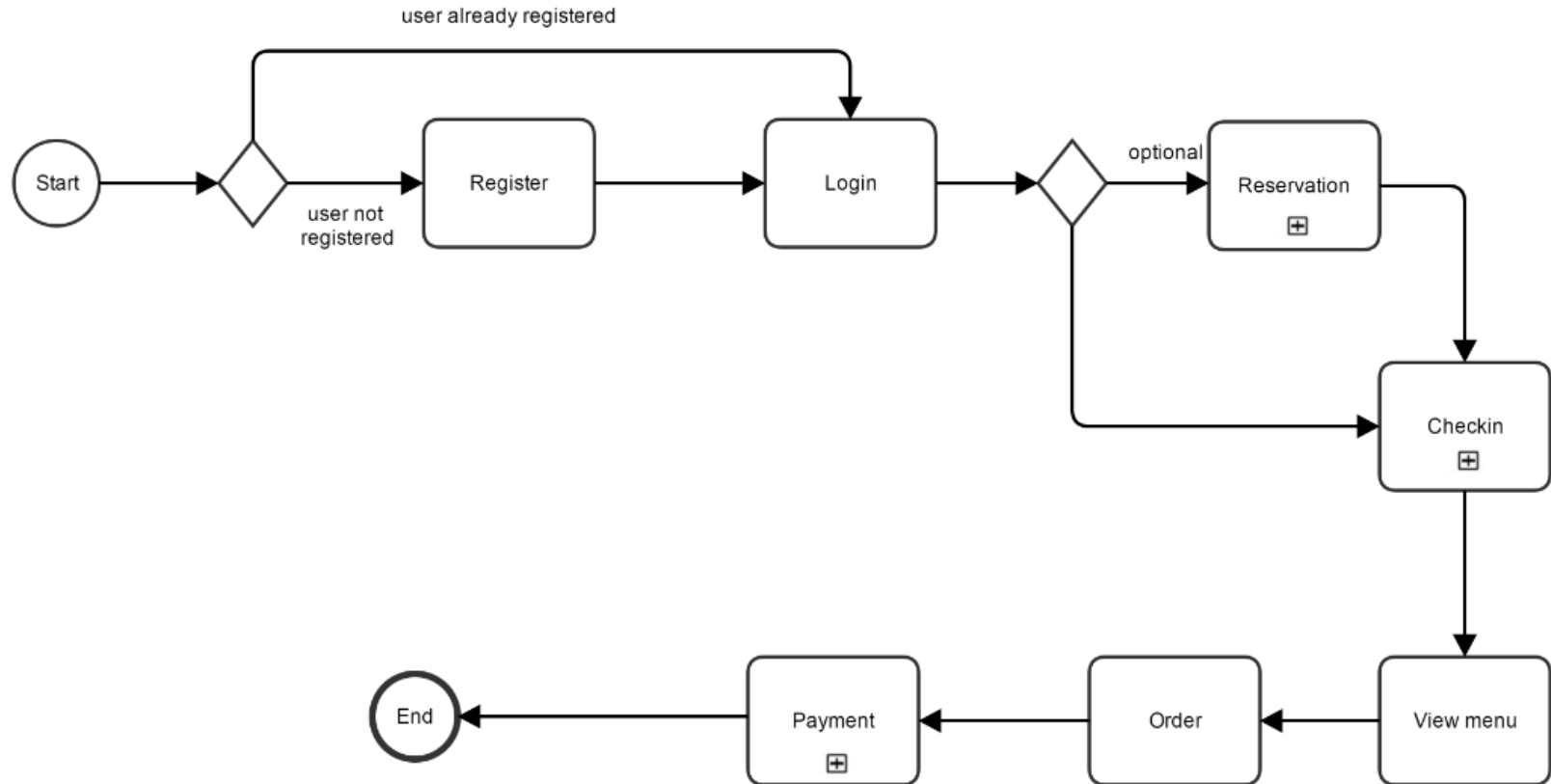# Workflow modeling and process management
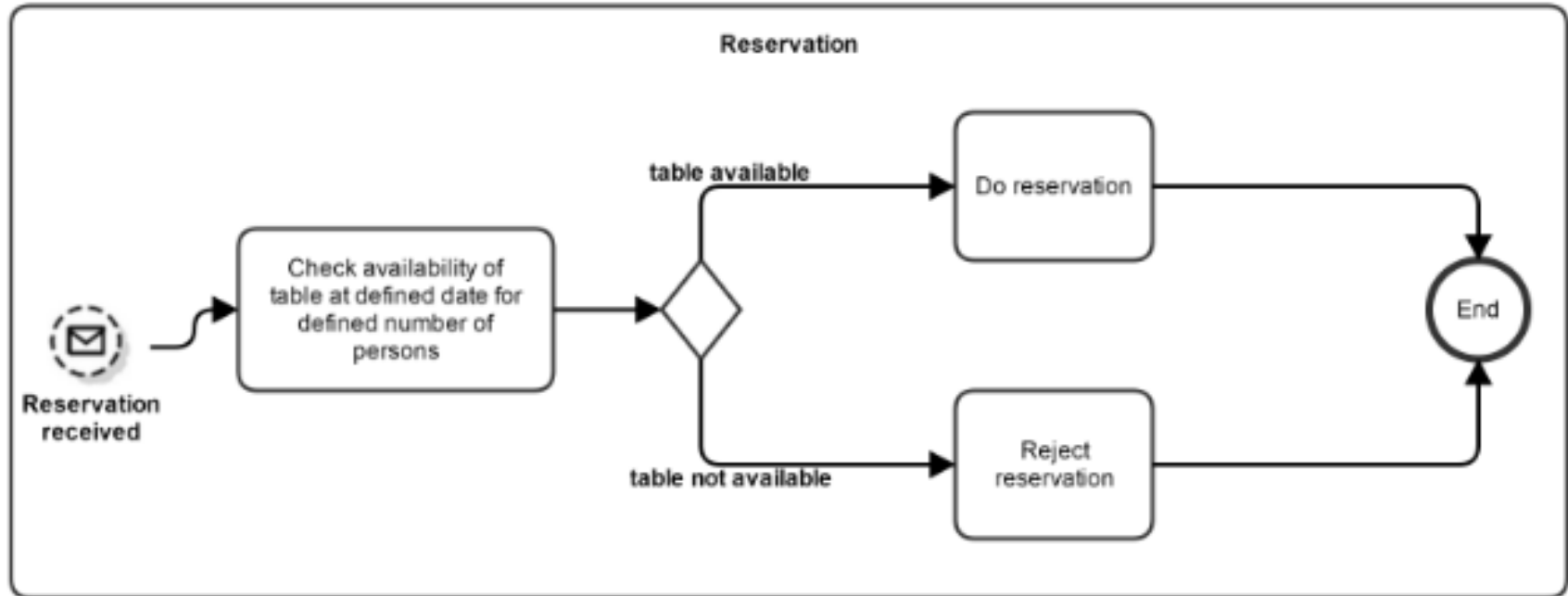
*Group 09*
*Summer Term 2015*

# Project description

- Backend for a restaurant management system
- JSON-REST interface for clients to invoke functionality
- No platform-binding for possible clients
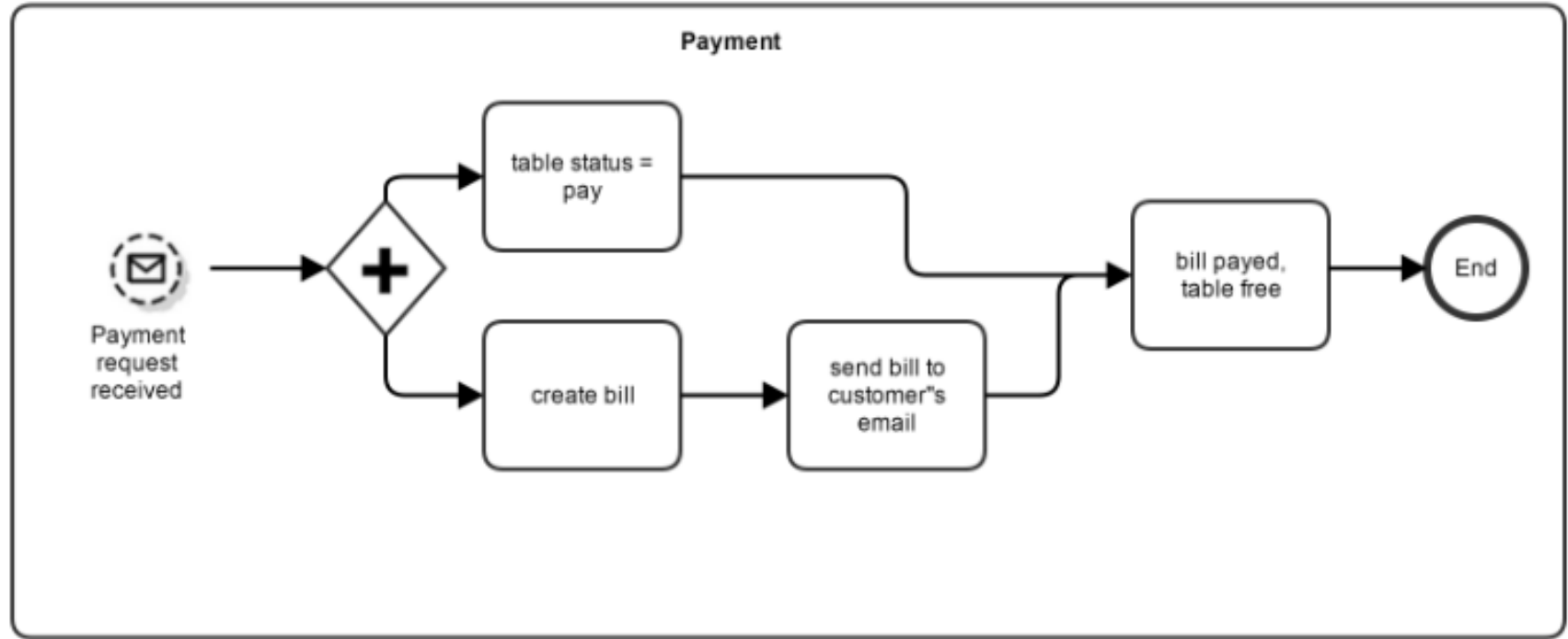- flexibility in existing infrastructure
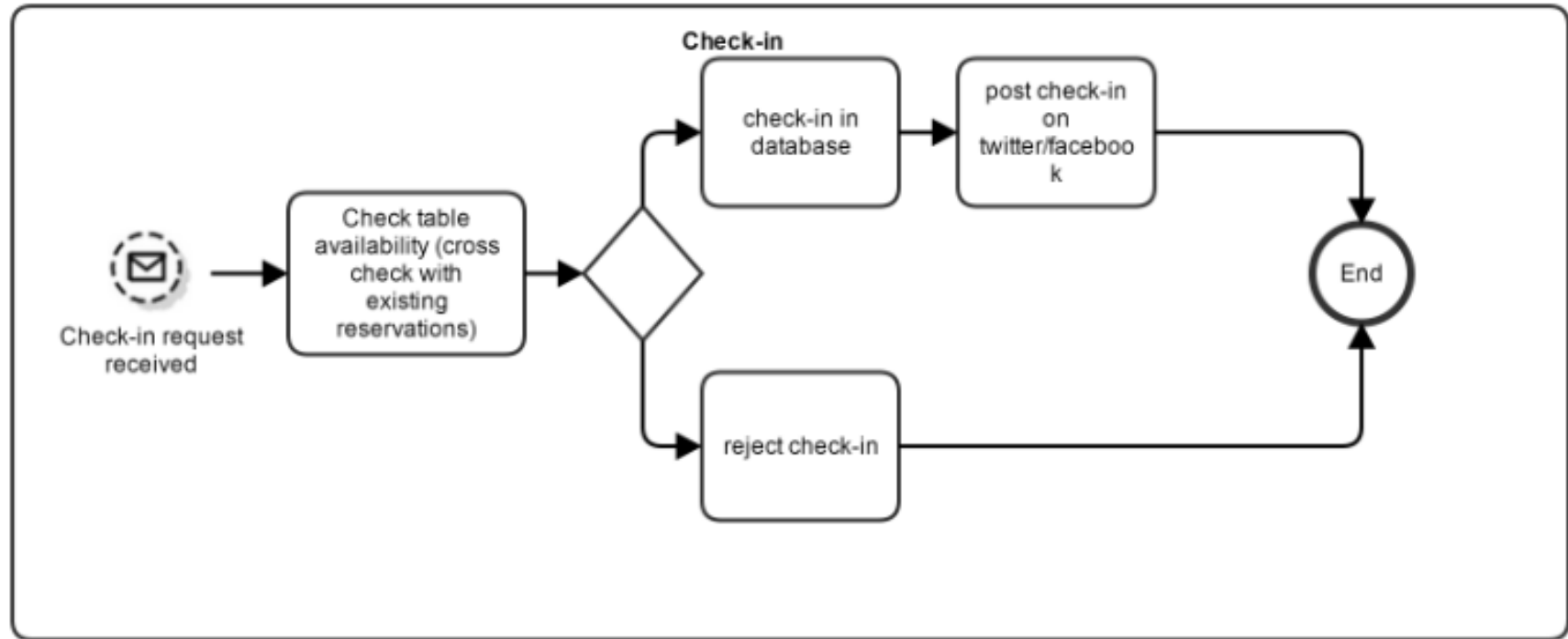
# Business Process Model

# Reservation

# Payment

# Check-in

# Technology Stack

- MySQL based database (XAMPP Stack)

- Apache Tomcat web server

- Hibernate in the data access layer as ORM

- Spring ("Inversion of Control")

- Maven: Lifecycle Framework (Dependency-management, Building)

# EIP

1. Selective Consumer
2. Message Endpoint
3. Wire Tap
4. Messaging Gateway
5. Content Enricher
6. Point-to-point channel
7. Pipes and Filters
8. Splitter
9. Aggregator
10. Throttler

# Components

- Bean Validator / camel-bean-validator

- Facebook / camel-facebook

- GMail / camel-gae

- File / camel-core

- Twitter / camel-twitter

- JPA / camel-jpa

- Spring Boot / camel-spring-boot

# Beans / Processors

- LoginBean (UserBean; the current session)

- RegisterBean (for new users)

- Reservation (reservation of table in advance)

- CheckinBean (checkin at table including social media interaction)

- OrderBean

- Payment (the process of billing, creating & sending invoice via email )

- Backup (the backup system making copies of reservations and payments)

- ValidatorBean(s) (validate input of certain endpoints)