# Software Design Specification

# for the Used Video Games Trade Post

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Prepared by Yi Liu

# 1 introduction

## 1.1 System Overview

The Used Video Games Trade Post serves as an intermediary to players needing to sell games they have already cleared or games they don't like. Since video games are getting more and more expensive, and a video game may not be attractive to players when they beat this game, putting these games aside? What a waste! The Used Video Games Trade Post provides a website looks like a market where players could post their used video games, other players could search specific games or sorted used video games by time. The Used Video Games could provide used video games details for customer who want to buy used video games. For instance, Steve post his games on our website, then Rogers see this information, he clicks this game, jump into details page, Rogers could leave messages such as 'can you discount it?' to Steve on detail pages.

## 1.2 Definitions, Acronyms, and Abbreviations

   a.  UVGTP: Used Video Games Trade Post

## 1.3 References

   a.  Spring: http://www.springsource.org/about
   b.  Spring Security: http://static.springsource.org/spring-security/site/index.html

# 2 Design Consideration

## 2.1 System Environment

The software that Used Video Games Trade Post server will run on is Apache Tomcat ([https://tomcat.apache.org)](https://tomcat.apache.org). Used Video Games Trade Post Client will support mainstream web browsers such as Chrome, IE, and Safari

## 2.2 Design Methodology

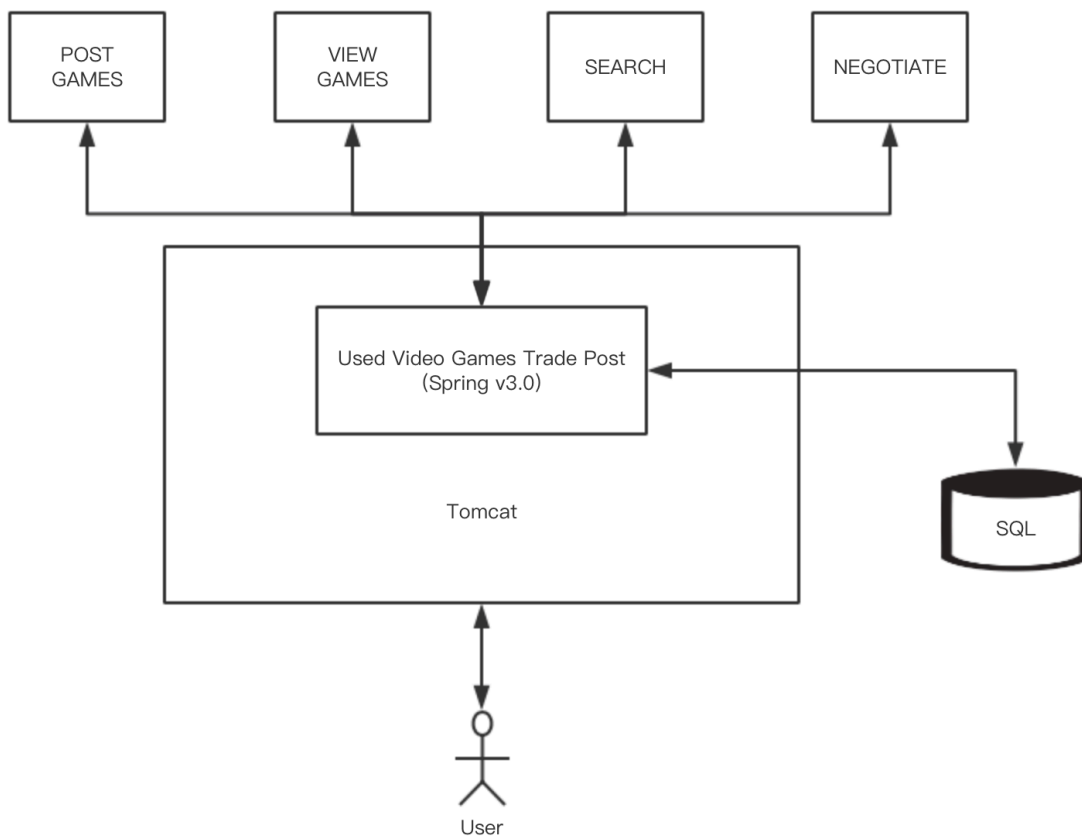The design methodology being employed here is the UML object-oriented technique.

# 3 Architectural (High-level) Design

## 3.1 Overview

The Used Video Games Trade Post will be made available in the form of a server application. The server application will run on a JEE Application Server, which is a prerequisite for the Used Video Games Trade Post, such as Tomcat. It consists of Spring controllers that respond to requests for data from the UVGTP front page.

Users post their used video games that they want to sell on the UVGPT, and other users can click relational games, then jump into the relevant webpage. Customers could see the detail of used games, negotiate with the seller user.

## 3.2 Conceptual (or Logical) View

The diagram depicts the main functions provided by the UVGTP after the user completes registration and login operation. All functions are performed by UVGTP running on Apache Tomcat. Users could post details of used video games they want to sell. Other users can see this information. Uses who interested about this game can leave messages below. Users can also search for relevant sales information based on keywords. All data is stored in the database.

# 4  Low Level Design

## 4.1 Server (Spring Web App)