TV Time

Supplementary Specification

Version <1.0>

Revision History

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Supplementary Specification

# Introduction

The **Supplementary Specification** captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

Legal and regulatory requirements, including application standards.

Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.

Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

# Non-functional Requirements

* Quality attribute definition
* Source of stimulus: the entity (human or another system) that generated the stimulus or event
* Stimulus: a condition that determines a reaction of the system
* Environment: the current condition of the system when the stimulus arrives
* Artifact: is a component that reacts to the stimulus. It may be the whole system or some pieces of it
* Response: the activity determined by the arrival of the stimulus
* Response measure: the quantifiable indication of the response
* Tactics

## Availability

All functionality shall be available remotely through an internet connection. This may require applications or controllers running on the remote computers.

## Performance

* 1. **Simultaneous Users**

The system shall support up to 2000 simultaneous users against the central database at any given time, and up to 500 simultaneous users against the local servers at any one time.

* 1. **Database Access Response Time**

The system shall provide access to the TV series database and Next Episode’s database with no more than a 10 second latency.

* 1. **Transaction Response Time**

The system must be able to complete 80% of all searches within 2 minutes.

## Security

The system will use a single password per user to login to the TV Time account.

The system shall use secure socket layer (SSL) technology to ensure all payments made online ( if developed in future versions) and user logins are secure

## Testability

The implemented system is tested using unit testing technique, by using test cases written by us or automatically generated ones.

## Usability

This section lists all those requirements that relate to, or affect, the usability of the system.

The user must be able to understand and navigate freely throughout the TV Time site. To do so, the TV Time will use simple and natural dialogue to explain TV shows categories, descriptions and reviews, and clearly marked icons will allow the user to navigate openly through the site. The user interface of the TV Time shall be designed for ease-of-use and shall be appropriate for a computer-literate user community with no additional training on the System.

In order to offer any assistance the user might require when operating the TV Time, call support and documentation, FAQ, have been implemented via functional requirements.

# Design Constraints

The **software languages** used in this project are Java, JavaScript and CSS and the project is written using the IntelliJ IDE.

The **tools** used are SpringRest + AngularJs, Spring, and to represent the database the developer will choose between Hibernate or Spring Data Repositories.

As for **architectural and design constraints** one of the main constraint is to respect the Business Layer architecture which is made from 3 layers: Business Logic Layer, Data Access Layer and User Interface. Other constraints might impose the use of several design patterns to reduce the complexity and to solve in a universal way a particular problem.