

Big Bang Theory Website  
Software Requirements Specification

A Software Requirements Specification Presented  
to Leonardo Pabroquez  
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# Big Bang Theory Website

## Software Requirements Specification

### 1. Introduction

This Software Requirements Specification is a document that outlines the nature of this website project by describing what the website will do and how it will be expected to perform. It's a description of the website that's currently being developed. This introduction is divided into five (5) parts namely, Purpose, Intended Audience, Intended Use, Scope, and Definitions and Acronyms.

#### 1.1 Purpose

Watching shows or TV series elicits a feeling of joy and excitement towards the people watching. Each individual might experience different feelings from another yet one fact remains true, that after watching, just an episode is not enough especially if the show is so good. Now, what happens when the show takes a break or finished airing, what then?

The question of what will people do to relive the feelings they felt when they watched a certain show and to learn more about it is the driving force of the developer in creating this website.

Specifically, this website revolves around The Big Bang Theory, an American television sitcom. It follows physicists Sheldon Cooper and Leonard Hofstadter, whose nerdy and reclusive lives were turned upside down when Penny, a beautiful waitress and aspiring actress, moved into the apartment across the hall from them (The Big Bang Theory Fan Site, 2007).

#### 1.2 Intended Audience

The group of persons for whom the service or product is designed is referred to as the intended audience. The population of people targeted by this website is teens and adults. This is in relation to the statistics that showed teens 12–17, adults 18–34, adults 18–49, and adults 25–54 are the main people watching the show, The Big Bang Theory (Raymond, 2014). So it is only natural that the main people that would use the website are the above age groups.

For this SRS, the developer, testers, and project managers can have access to it.

### 1.3 Intended Use

The intended use details how the website can be used by the users and the features of said website. The website's concept is a Wikipedia-like website that provides reliable and credible information on The Big Bang Theory Series. Thus, its intended use is not only for entertainment but also for educational purposes by the Fandom.

### 1.4 Scope

The product scope outlines the website's benefits, aims, and goals in relation to the overall goal.

The goal of the developer is to develop a website with a dedicated purpose to enlighten, inform, and provide everyone with information about everything related to The Big Bang Theory.

The Primary features of the website include The Big Bang Universe which show any article related stuff about the shows, Related, which highlights Young Sheldon, a prequel of the said show where Sheldon, the main character was still a child, About, which entails the information both of the website and the developer, Forum which lets the users have a discussion with each other and share information like FAQs, and lastly, Login/Signup which enables the user to have a secure experience.

### 1.5 Definitions and Acronyms

Shown below is a table that explains the meaning and acronym of important words.

Statistics	The practice of collecting and analyzing large amounts of numerical data.
Fandom	Being a fan of someone or something.
TV	Television
SRS	Software Requirements Specification.
FAQs	Frequently asked questions.

*Table 1. Definition of terms*

## **2. Overall Description**

The overall description depicts the website's characteristics. It is divided into two parts namely, User needs and Assumptions and Dependencies.

### **2.1 User Needs**

User needs describes how the website will be utilized and what specifications will the users require on the product. These specifications describe how the website should perform.

Based on the Product backlog, below are the user requirements.

First, images from the website should be savable. This is because users might use the image as their wallpaper and what not.

Next is that links should be utilized to redirect the user to another page to lessen scrolling and save time and energy. These links could also be utilized in the navigation panel so that the users could easily navigate the website.

Another one is that there should be a forum where users could post their opinion about the show, this will encourage users to engage in friendly and smart discussions. It should be also possible to reply to those posts.

Then, there should be a search option to easily locate the needed information by the user.

Lastly, to make the website secure and to protect the users, a login and signup should be available in the website.

### **2.2 Assumptions and Dependencies**

Assumptions and Dependencies gives an idea on assumptions about the website and the dependencies it has. Whether the website is using a kind of technology or is patterned from another existing website.

Although this website might have similarities to other entertainment websites that host their fandoms, the website is not dependent on any outside factors since this website is not recycled from a previous website and is new.

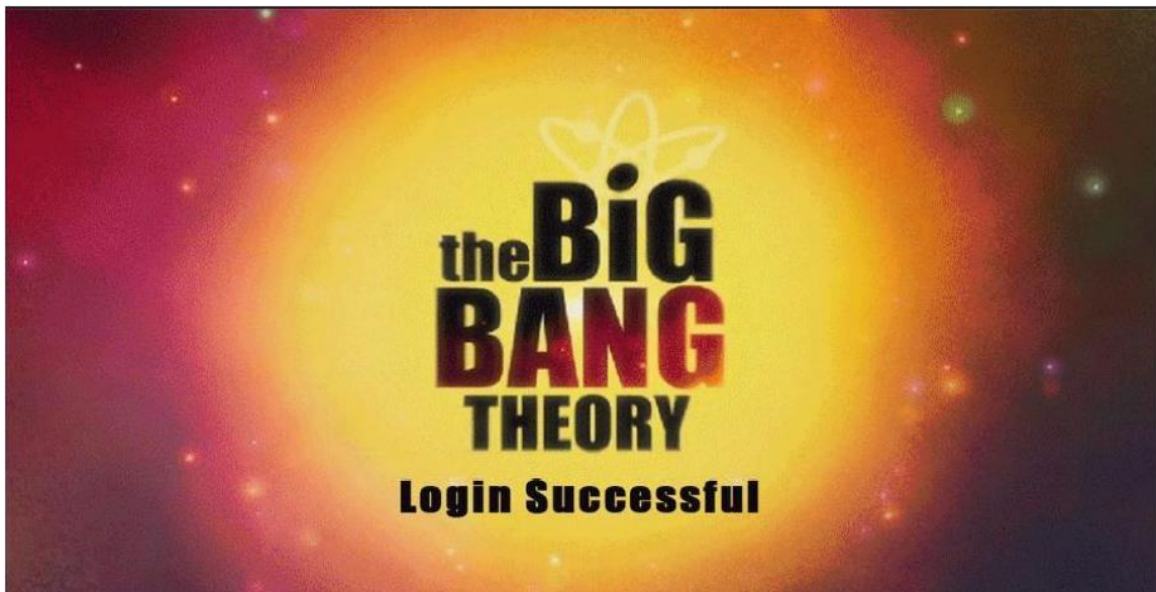
### 3. System Features and Requirements

System Features and Requirements give an overview of what the system could do or its functions and its characteristics. It has four (4) parts namely, Functional Requirements, External Interface Requirements, System Features, and Nonfunctional Requirements.

#### 3.1 Functional Requirements

Functional requirements are product features or functions that must be implemented by developers in order for users to complete their tasks. Below are the Functional Requirements for the website.

The website's system sends a "Login successful" gif message when the user successfully logs in to the website.



*Fig. 1 Login Successful Message*

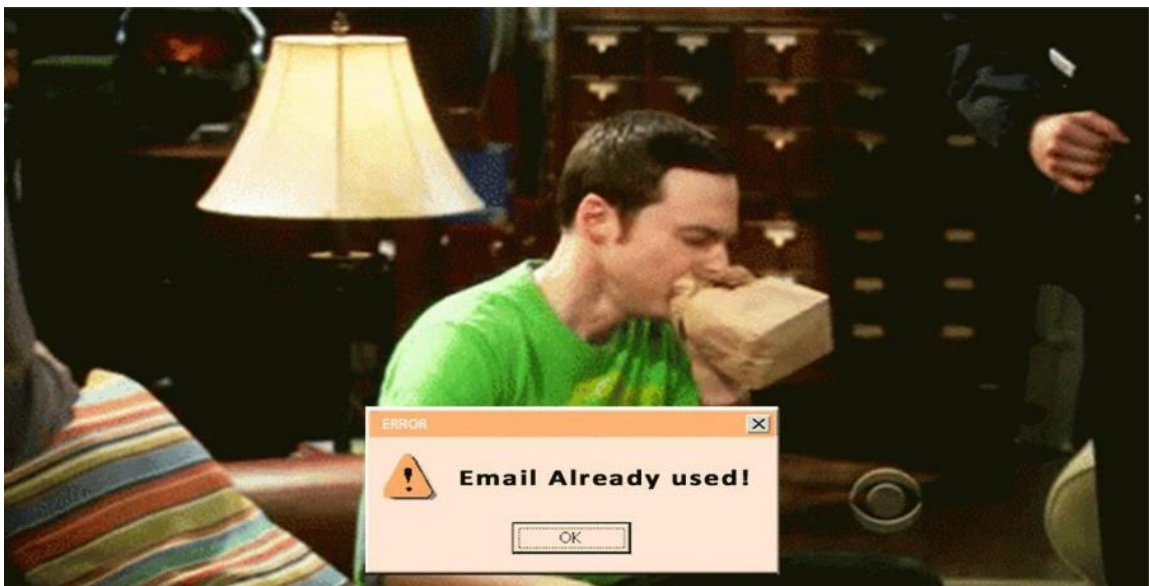


In case the user inputs an invalid email or password, the website's system sends an "Invalid Email or Password" gif message.



*Fig. 2 Invalid Email or Password Message*

When signing up and the email is already being used, an "Email Already used!" gif message will be sent by the website's system.



*Fig. 3 Email Already used! Message*

Still in the Signup form, if the user's password did not match, it will send a "Password Doesn't Match" gif message.



*Fig. 4 Password Doesn't Match Message*

A "Session expired! You are logged out!" gif message will be sent to the user after being forcefully logged out after 5 minutes of inactivity.



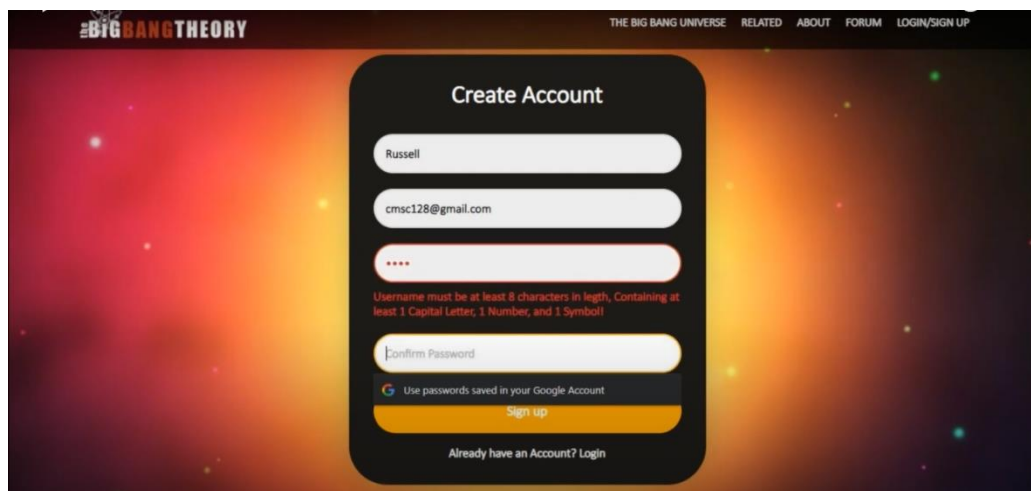
*Fig. 5 Session expired! You are logged out! Message*

If the user successfully logs out, a “You have been successfully logged out” gif message will be sent to the user.



*Fig. 6 You have been successfully logged out Message*

Lastly, if the user tries to sign up and does not fulfill the password criteria to have at least 8 characters, containing at least 1 capital letter, 1 number, and 1 symbol, then they will be sent an error message by the website’s system.



*Fig. 7 Password Does Not Match Message*

### 3.2 External Interface Requirements

External Interface Requirements are a subset of functional requirements. When working with embedded systems, these are very critical. They describe how your product will work with other parts.

For the User Interface of the website, the frontend development used HTML, CSS, and JavaScript to produce a visually engaging webpage. While the backend development utilized PHP to generate the dynamic page content. The

website was also based on windows framework. The system will feature content that can only be viewed by users who have an account and logged in to the website and will be able to post and reply to other users.

For Hardware Interfaces, an internet connection is required for the browser software interfaces to connect to the internet in order to access the website's files and content.

For Software Interface, to allow remote access to the website and file downloads over the internet, the website will have Mozilla Firefox, Microsoft Internet Explorer, Brave, Apple Safari, Opera, and Google Chrome.

For Communication protocol, the software interfaces will connect to the internet using Internet Protocol (IP).

### **3.3 System Features**

Functional requirements are sorts of system features. These are features that a system must have in order to work. For this website, system features include a log-in feature for the user to log in to the website for them to access information that the website offers.

If the user does not have an account, they can create one using Signup. The user after signing up could post their opinion in the forum and also reply to another user's post.

### **3.4 Nonfunctional Requirements**

A nonfunctional requirement is a characteristic that governs how a system functions. It improves the efficiency of apps or software while also demonstrating the system's excellence.

For Performance, the speed of the website determines how quickly it responds to commands. Every functional requirement message has a speed of 1 second to respond and will stay for 2 seconds on the user's screen before executing the command.

For safety and security, as explained above, users are required to create an account in order to gain access to the website. When users input the correct username and password, a security system permits access to accounts.

For Portability, the website is dynamic and will work on the phone and desktop.

For quality, all the information on the website will be first fact-checked before it will be displayed to ensure a reliable and user-friendly information.

## References

The Big Bang Theory Fan Site. (2007). The Big Bang Theory About. The Big Bang Theory. Retrieved January 8, 2022, from <https://the-big-bang-theory.com/about/>

Raymond, A. K. (2014, May 4). Why Are 23.4 Million People Watching The Big Bang Theory? Vulture. Retrieved January 8, 2022, from <https://www.vulture.com/2014/05/big-bang-theory-ratings.html>