**Functional Specification**

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**1.Goals**

Our team accepted a project of making a fully functional, videogame selling website. The website has to be available from every browser. Our job is to make online customers to be able to browse between products available in the client’s, GamerZ’s store, Buy products, and even leave a review of each item, to help other customers make a decision. A register-login system has to be implemented, because being a registered users has many advantages, although it is not compulsory for the purchases.

**Durring development our goals are:**

* Fully functional videogame selling website.
* Secure working database connection
* Displaying items available in the database
* Profile page for users
* Feedback
* Purchases

**2. Current State**

GamerZ, the company that has hired our team, is a world wide known shop that sells video games to all available platforms in the world. The company also sells other hardwer items, such as consoles, controllers, headsets, and even PC parts. Still, GamerZ does not have a website yet, due to previous market issues, altough it would definetly help the company to achive more income. Our project is to make this website for the company, altough the website should only sell videogames, because GamerZ is not ready yet to sell more complex and expensive hardwers. Later however, it is possible that furhter additions will be neccesary to the website, making the new harder items available as well.

**3. Scope**

Our goal is to satisfy the client’s needs, meaning that we would like to develop a webshop, in which customers can buy video games. Altough the website should have man other possibilites as well, such as register and login, support contact, and interactive feedbacks. The pages are going to be the following:

* **home page**: The home page is the default page of the website, this is the first page people will see. Here customers can see the newest products that came out and can interract with them. Also, the best reviewed games will be displayed on the home page as well. On the bottom of the page, the reviews about the webshop will be shown.
* **Products page**: on the products page, all of the products will be available, which are stored in the video game database. The page will contain 12 products, either way the page would be too long, making users scroll down way too much. will eb able to switch pages easier. ont he left side of the page will be the filters, which the user can use to make their searches easier. This filter will contain price, title, platform, release year, type and publisher, and will display products in real time without the press of a button.
* **Product page:** this page contains individual video games. The page can be reached by clicking on one of the products on the products page. Here the cover of the game is displayed, with some basic pieces of information, such as title, platform, publisher, price, and description, and also the review score and message that customers can leave. Here customers can put a product to thei shopping cart.
* **Register:** On this page, users will be able to register. Although registering to the website is nto compulsory, it has its own benefits, such as keeping the products in the shopping cart upon closing the website. The users have to give their username, fullname, password, email, birth date. Age will be automaticly calculated. Also added a google Captcha v3 to Prevent scripts to register millions of users unintentionally.
* **Log in:** On this page, registered users will be able to log in, using their username or email and password. there is a possibility to change the password, and it requires a verification code that is sent via email.
* **Profile:** Here users can see their personal information. They can set a profile picture that can distingush themself from other users, which is usefull mostly in the comment section.
* **Contact page:** On this page, users can leave feedback about the website. Moreover, they can send an email to the customer service if they have any problem or queston.
* **Shopping cart:** Here the products that had been added to the shopping cart will be displayed. Customers can change quantity and can delete a product.
* **Buy page:** Here customer can finalize their order by giving their shipping information.

**Changes:**

* 12 products will be shown instead of more than 20.
* improved filters now work in real time.
* products and website can be reviewed by logged in users.
* added captcha to register page to prevent robots from registering
* users can log in with email and apssword as well

**4. Standards, laws**

General Standards

Application must meet the following general standards:

1. Must be easy and intuitive to use for the target audience.
2. Must function in a logical manner for the target audience.
3. Must use the industry best practices.
4. Must use styles that are consistent throughout the application and within the associated Web site, including:
   1. Error messages must appear in a consistent location and style and must provide sufficient information.
   2. Form controls that are not available must be hidden.

Development Technology, Programming Language, and Web Server Software

Web application requires the use of the following (or higher) technologies:

* PHP 7.2
* Apache 2.4.0
* MySQL 8.0
  + MariaDB 10.1.38

Recommended IDE:

* Visual Studio Code 1.40.0

Minimum Browser Standards

Web application must function and display properly in the following browser versions:

* Mozilla Firefox
* Apple Safari
* Google Chrome
* Microsoft Edge
* Opera

The application require the Web browser to support Javascript and to accept session-based cookies

Cookies

Privacy laws around the world, including the EU Cookies Directive, demand that we inform users about what kind of cookies our website is using, directly or through third-parties.

Cookies Policy of BestWebshop.com

This website, BestWebshop.com (the "Website"), is operated by Blank Team

### **What are cookies?**

Cookies are a small text files that are stored in your web browser that allows Blank Team or a third party to recognize you. Cookies can be used to collect, store and share bits of information about your activities across websites, including on BestWebshop.com website.

Cookies might be used for the following purposes:

* To enable certain functions
* To provide analytics
* To store your preferences
* To enable ad delivery and behavioral advertising

BestWebshop.com uses both session cookies and persistent cookies.

A session cookie is used to identify a particular visit to our Website. These cookies expire after a short time, or when you close your web browser after using our Website. We use these cookies to identify you during a single browsing session, such as when you log into our Website.

A persistent cookie will remain on your devices for a set period of time specified in the cookie. We use these cookies where we need to identify you over a longer period of time. For example, we would use a persistent cookie if you asked that we keep you signed in.

### **How do third parties use cookies on the BestWebshop Website?**

Third party companies like analytics companies and ad networks generally use cookies to collect user information on an anonymous basis. They may use that information to build a profile of your activities on the BestWebshop Website and other websites that you've visited.

### **What are your cookies options?**

If you don't like the idea of cookies or certain types of cookies, you can change your browser's settings to delete cookies that have already been set and to not accept new cookies. To learn more about how to do this, visit the help pages of your browser.

Please note, however, that if you delete cookies or do not accept them, you might not be able to use all of the features we offer, you may not be able to store your preferences, and some of our pages might not display properly.

### **Where can I find more information about cookies?**

You can learn more about cookies by visiting the following third party websites:

* [About.com Browser Guide](http://browsers.about.com/od/faq/tp/delete-cookies.htm)
* [All About Cookies.org](http://allaboutcookies.org/)
* [Network Advertising Initiative](https://www.networkadvertising.org/)

**5. Current business model**

At the moment the customer has a working store, which provides every necessary product to customers, Although purchasing items online is not yet possible, due to the lack of GamerZ webshop. Our current project aims to extend the functionalities of the client company by providing a fully functional webshop.

Before the release of the website, customers have to actually show up in some of the GamerZ stores somewhere in the word, which is not a problem on its own, but it has very limited possibilities. For example, if a certain product is nto available in the store, becasue it has benn sold out, customers have to wait sometimes more than a week which is quite fustrating, becasue everyone wants to get the newest products as soon as possible. To give a simple solution to this problem, a website will be created, which will be connected directly to the product storage, so it wont be neccesary to ship the products to the different GamerZ stores all around the world, every order will be shipepd right from there.

Furthermore, ordering an item online is much more convinient than taking any form of public transportation, due to some very dangerous drivers, not even mentioning the pollution cars cause to the atmosphere. So ordering from home is not even more convinient but also protects the enviroment.

As a result, customers will more likely spend their money on videogames at the GamerZ shop, if they can make an order from home, or any remote place that is not any of the stores of the Company. That is the main reason the website shall be created.

**6. Requested business model**

**Pre-conditions**

* Customers must have an internet connection in order to connect the website.
* Being a registered user is not neccesary for online purchases
* Database connection has to be set and fully functional.
* Users have to use a 16:9 pc monitor for the best experience because the website does not support mobile or any other aspect ratio.
* Users have to be logged in in order to reach the profile page – guest users do not have a profile page, and only have limited permission to most of the possibilities (mostly only read, but no write.)

See more detailed information in 7.0**7. Request list**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modul** | **Id** | **Name** | **v** | **Description** |
| Database | D1 | Database planning | 0.1 | Database, tables, relations |
| Authorization | A1 | Log in | 0.1 | Log the user in |
| Authorization | A2 | Register | 0.1 | Register new user |
| Authorization | A3 | Change pw | 1.0 | Allow users to change their password |
| Products | P1 | Load Products | 0.1 | Get Products from Database |
| Products | P2 | Procut Display | 0.1 | Design Product palette |
| Products | P3 | Filters | 1.0 | Real time functional filters. |
| Purchasing | PU1 | Shopping Cart | 0.1 | Display items sent into shopping cart |
| Purchasing | PU1 | Purchase | 0.1 | Ability to actually order the content of the shopping cart |
| Shipping | S1 | Shipping info | 0.1 | Pre-given shipping info is possible |
| Profile | PR1 | Profile Page | 0.1 | Profile page of logged in users |
| Profile | PR2 | Edit Profile | 0.1 | Edit personal information of logged in users |
| Reviews | R1 | Website review | 1.0 | Let users leave a review of the webshop |
| Reviews | R2 | Product review | 0.1 | Let users leave a review of each product |
| Contact | C1 | Contact | 1.0 | Users can contact the customer service |

**8. Use-cases**

A more detailed documentation is available [here](Functionality.docx)