



Webshop



Projekt [Info]:

Language:	German or English
Typ:	Webshop
Topics:	Everything that is legal!
Number of persons:	1-3
Number of points:	48P Total
	42P => All requirements
	6P => Bonus

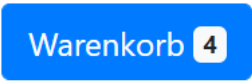
Requirements for the webshop

Students Note: This is a **project**, so plan enough time for it. **A webshop is not created in one day.**

Generally we use as hash method - Sha512 Hash

Nr	Titel	Beschreibung
1	Login	<ol style="list-style-type: none">1. there must be a login page2. the customer must be able to enter his username (e-mail) and password3. the username is the e-mail address4. there is a link to the user registration (new installation) <p>Bonus:</p> <ol style="list-style-type: none">5. Forgot password function (user can reset password.)
2	Login <i>Validation of the data before it is sent.</i>	<ol style="list-style-type: none">1. before sending the data, it is checked if a username has been entered (at least 5 characters + @).2. before sending the data, it is checked whether a password was entered, if yes, a hash is generated and only the hash value is transmitted to server.3. password must be at least 9 characters long and contain one upper case letter, one lower case letter and one number.
3	Login - save data	<ol style="list-style-type: none">1. at login data of the user are stored2. when date and time3. screen resolution (1280x768 or 3840x2500...)4. operating system Mac OS, Windows, Android, Linux

4	User registration	<ol style="list-style-type: none"> 1. the user can register for the first time. 2. there is a registration form with all necessary fields. 3. the username consists of an email address with an @ sign. 4. the registration form can not be sent empty. 5. the registration prevents duplicate entries, that means a user can not register 2 times with the same username. 6. User cannot set a password by himself, he will be sent a password with the registration confirmation. <p>Bonus: Username is checked with AJAX in the background and immediately displayed as incorrect in the form if it already exists.</p>
5	User registration confirmation	<ol style="list-style-type: none"> 1. the user gets a registration email with a default password.
6	User registration - first login	<ol style="list-style-type: none"> 1. the user must reassign his password at the first login. 2. the password is transferred to the server as a hash.
7	Database	<ol style="list-style-type: none"> 1. create a small database design as learned in the database lecture. Think about which tables are needed. 2. all passwords are stored SHA512 encrypted in the database. At no time a hacker can recover the passwords.
8	Online Status User (AJAX)	<ol style="list-style-type: none"> 1. when the user is logged in, he can see how many other users are still online. 2. the check is done in the background with AJAX. 3. the user count is updated automatically and nothing needs to be updated.
9	Article overview	<ol style="list-style-type: none"> 1. there is one article page with at least 9 articles, one should have ü,ä,ö in the article name. 2. all items have at least one name and one price and one quantity. 3. there is a possibility to edit the quantity that should be put into the shopping cart. That is with + and - buttons or simply by input. So that the user can decide that he puts 5 pieces of it in shopping cart. 4. each article has a button with which a number X can be put into the shopping cart. <p>Bonus: Search in the article overview</p>

10	Homepage	<ol style="list-style-type: none"> the user is welcomed at login: Welcome Mr/Mrs Mayer. You were last online on Monday - 13.04.2021. a carousel with at least 3 images is displayed. Example: https://getbootstrap.com/docs/5.0/components/carousel/
11	Navigation bar	<ol style="list-style-type: none"> in the navigation bar you should see the shopping cart icon with a badge. The badge shows the number of items in the cart. when adding/removing items at the shopping cart, the badge will change automatically. <div data-bbox="699 698 951 777" data-label="Image">  </div> <p>https://getbootstrap.com/docs/4.0/components/badge/</p>
12	Shopping cart	<ol style="list-style-type: none"> There is a shopping cart icon at the top of the menu. the icon can be clicked and then a shopping cart page will be displayed. The shopping cart shows the items that have been added with the number of pieces. If a customer buys the same item 8 times, he gets 8% discount on each item. If he buys 16 items he gets 16% discount. the number of items can be changed in the shopping cart. an item can also be removed from the cart, either at the number 0 or with an extra X button. it is ensured that no minus quantities can be ordered. there is a button that leads to the order/checkout.
13	Order/Checkout	<ol style="list-style-type: none"> each order has its own order number 3 shipping methods can be selected during checkout. 1x DPD, 1x DHL and 1x DHL Express. With the Express variant comes a surcharge of +67€ on it. The DPD variant is 15€ cheaper than the DHL variant. there is a checkbox that accepts data protection. This must be confirmed so that the order can be sent. there is a pay button that sends the order. after payment you will be redirected to a thank you page. <p>Bonus: Apply and customize checkout. https://getbootstrap.com/docs/5.0/examples/checkout/</p> <p>Coupon Codes - A user can enter 1 or more coupon codes which will be deducted at checkout.</p>

14	Confirmation by e-mail	<ol style="list-style-type: none"> after the payment process, the user will receive an invoice email with the data: Order number + item quantity + item name + item quantity + shipping + total amount. <p>Bonus: The email is formatted as HTML email and looks professional</p>
15	Overview of purchased items	<ol style="list-style-type: none"> there is an extra page where the user's orders can be seen. the order number is displayed. for each order there is a button ("same order again") with which the order can be ordered again. the user will get again an invoice email with the data: Item quantity + item name + item number + shipping + total amount. <p>(Should work completely automatically - 1 Click buy again)</p>
16	Support for special characters	<ol style="list-style-type: none"> surnames with special characters (ä, ö, ü, ...) can be created during registration. articles can also contain special characters and still be displayed correctly on the website.
17	Security	<ol style="list-style-type: none"> only logged in users are allowed to access the page. the article page can be viewed without login.
18	Readability of the website	<ol style="list-style-type: none"> is the design clear can a stranger log into the webshop and can he manage.

Overview of allowed frameworks/libraries

Bootstrap	https://getbootstrap.com/ (Alle Element von Bootstrap dürfen verwendet werden, bzw. Navbar)
jQuery	https://jquery.com/
Popper	https://popper.js.org/
Font Awesome	https://fontawesome.com/
three.js	https://threejs.org/
Chart.js	https://www.chartjs.org/
SweetAlert.js	https://sweetalert.js.org/
SweetAlert2.js	https://sweetalert2.github.io/
PHP Mailer	https://github.com/PHPMailer/PHPMailer

If a framework is not on the list you are welcome to contact me and ask if it can be used. Basically no store frameworks are allowed.

Database

Is it allowed to use another database?

=> Yes, it is allowed, but it must be documented:

- Which database
- SQL script - to rebuild the database with the complete script.

MySQL or MariaDB is recommended.