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Assignment number: 3

IMPORTANT NOTE: the default date and time of your web server might be behind or ahead SG time this will make the website look like it is not functioning properly. Please follow the instructions in this link to correct the date

https://erdeepakphp.wordpress.com/change-timezone-to-apache-server-xampp/

Requirements

1. This website has a login and registration page where a user can either register as a user or an admin. Basic validation such as checking if the ID already exist when the user registers and checking if the correct credentials are entered when user logins are done here.
2. If the user is an administrator, he can insert new products into the database, search for items using a combination of id category brand or status which can be done with partial strings, list all products, list rented products, list available products and view products individually.
3. If the user is a client, he can list all available products, list all products he is currently renting, list all products he has rented, search for products similar to what was stated above. When a client clicks on the individual product, if the product is available, he can rent the product and receive a notification of the return date and cost depending how many days he stated he was renting it for. If the product status is not available, the system will check if he is the one that is renting it. If he is, the system will display options for him to either extend or return the product. If the client returns the product a successfully returned message will be displayed. If the client choses to extend the rent duration, he will receive a notification of the new return date and new cost depending how many days he stated he was extending it for.
4. All users can logout of the system anytime.

Readme (How to start our website)

1. Start your localhost server and database e.g xampp
2. Copy the zip file containing the source codes to this directory

This PC › Local Disk (C:) › xampp › htdocs › first

and extract the source codes.

3. Open mysql admin and import a3.sql to recreate the database
4. Go to your web browser and input this url: http://localhost/first/Login.php

User Manual

1. Login page

In this section users can login to the website based on their credentials, they will be identified as either an admin or a client and be directed to their respective homepages if they enter valid credentials. If they do not enter valid credentials, an error message will appear.

2. Register Page

In this page, the user can register an account. They must enter all fields, enter an ID that does not already exist, enter a valid phone number, and enter a valid email address in order to successfully register. If any of the above is not done, error messages will be displayed, and the user will not be able to register for an account.

Back

ID:

Password:

Name:

Surname:

Phone:

Email:

○ Client

○ Admin

Submit

3. Admin homepage

If an admin logs in he will be directed to his home page

Welcome user5

4. Search Products

Both admin and client can search for products by typing in a combination of partial or full searching strings which can be any combination of the products ID, category, status and/or brand.

Welcome user5

Product ID:

Category:

lap

Brand:

as

Status:

Search

ID	Category	Brand	Description	Status	Regular	Extended
product123	laptop	asus	new	Available	5.00	10.00

5. Insert a new product

If the user is an admin, he can insert a new product. He must enter a product ID that does not exist in the database and numbers up to 2 decimal places in order to insert the product successfully. If invalid input not obeying the above rules is entered, error messages will be displayed

Welcome user5

Product ID:

product123

ProductID already exists

Category:

modem

Brand:

starhub

Description:

old

Product status:

◉ Available

○ Rented

Regular Cost per day:

3.333

Invalid money format please re enter

Extended Cost per day:

2.222

Invalid money format please re enter

Insert new Equipment

If valid input is entered, the product is successfully inserted, and a success message will be displayed

localhost says

Product Inserted

OK

6.   View Profile

Both the client and the admin can view details regarding their account in detail

Welcome user5

ID	user5
Name	John
Surname	Smith
Phone	99999999
Email	das@gmail.com
Type	Administrator

7.   View All Products

The admin can list all products

Welcome user5

ID	Category	Brand	Description	Status	Regular	Extended
456product	router	singtel	old	Available	10.00	20.00
product001	modem	starhub	old	Rented	20.00	40.00
product123	laptop	asus	new	Available	5.00	10.00

8.   The admin can list products currently out on rent

Welcome user5

ID	Category	Brand	Description	Status	Regular	Extended
product001	modem	starhub	old	Rented	20.00	40.00

9. The client and admin can list all available products

Welcome user5

ID	Category	Brand	Description	Status	Regular	Extended
456product	router	singtel	old	Available	10.00	20.00
product123	laptop	asus	new	Available	5.00	10.00

10. The client can view all products he has previously rented

Welcome user1

ID	Category	Brand	Description	Status	Regular	Extended
456product	router	singtel	old	Available	10.00	20.00
product001	modem	starhub	old	Available	20.00	40.00
product123	laptop	asus	new	Rented	5.00	10.00

11. The client can view all products he is currently renting

Welcome user3

ID	Category	Brand	Description	Status	Regular	Extended
product123	laptop	asus	new	Rented	5.00	10.00

12. The client and admin can click on a products ID to view the product in greater detail and perform additional actions if the user is a client.

If the user is an admin, he can only see information about the product.

Welcome user5

ID	product123
Category	laptop
Brand	asus
Description	new
Status	Rented
Regular	5.00
Extended	10.00

If the user is a client and the product status is available, he can rent the product after indicating the number of days he wants to rent it for. A message showing the cost and return date will be displayed after the client has entered the days and clicked submit.
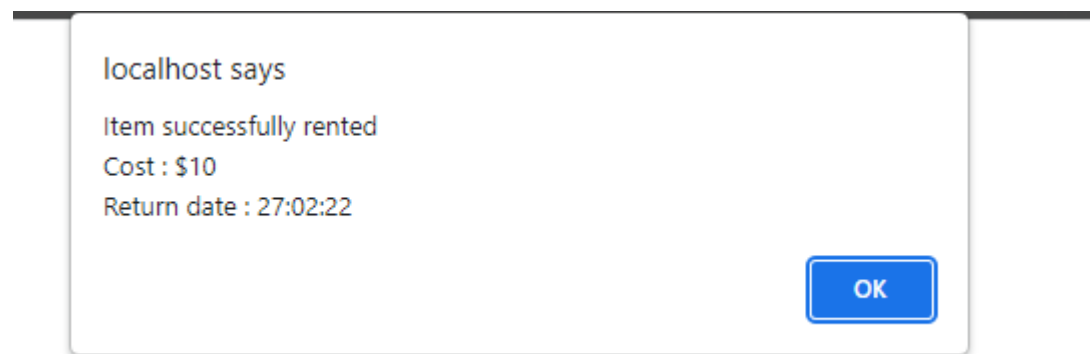
Welcome user1

ID	product123
Category	laptop
Brand	asus
Description	new
Status	Available
Regular	5.00
Extended	10.00

Duration of rental:

Rent Product

localhost says

Item successfully rented
Cost : $10
Return date : 27:02:22

OK

If the user is a client and the product is unavailable , the system will check if the user is the one currently renting the product. If the user is not the current one renting, the user may only view information about the product and not do anything else.

Welcome user1

ID	456product
Category	router
Brand	singtel
Description	old
Status	Rented
Regular	10.00
Extended	20.00

If the user is a client and the product is unavailable , the system will check if the user is the one currently renting the product. If the user is the one currently renting the product, they will have the option to return or the extend the rent duration

Welcome user3

ID	456product
Category	router
Brand	singtel
Description	old
Status	Rented
Regular	10.00
Extended	20.00

Duration of extension:

Extend Rental

Return Product

If they make an extension the new date and new price will be displayed to them.

localhost says

Duration of item extended
New Overall Cost : $80
New Return date : 2022-03-03

OK

If they click return the product, a successful message will be displayed to them

localhost says

Item successfully returned

OK

List of files and their descriptions

1. Admin.php

The homepage of the admin users. A admin object will be instantiated on this page and stored in a session when a user logs in.

2. Client.php
3. The homepage of the client users. A client object will be instantiated on this page and stored in a session when a user logs in.
4. DbConnect.php

A script that is called whenever a connection to the DB must be made.

5. Insert.php

This page allows the admin to insert a new product into the database by calling the insertEquipment method in the Admin class

6. Login.php

This page is where both the user and admin will login. The user ID and type of user will be stored in the session if the login is successful

7. logout.php

This page will destroy the session and redirect the user back to the login page

8. Profile.php

This page will allow both the admin and user to view more detailed information about their accounts they entered when they registered. Using the viewProfile method in the User class.

9. Register.php

This page will allow both the admin and user to create an account. If all the user input is valid and free of conflicts, a new user will be created and the user data will be inserted into the database.

10. RentCurrent.php

This page will allow the client to view all products he is currently renting by calling the viewCurrentorHistory method in the Client class.

11. RentHistory

This page will allow the client to view all products he has rented by calling the viewCurrentorHistory method in the Client class.

12. Search.php

This page will allow the client and admin to search for products using a combination of ID, category, brand and status. The user can enter only part of each of the searching strings. The parameters of the sql methods are be dynamically altered to match how the user intends to search for a product. The dynamically altered parameter will then be passed to the searchEquipment method in the user class which will then be executed which will return the search results.

13. UserClass.php

This page contains the parent user class and its methods, the child classes client and admin and their methods.

14. ViewAll.php

This page allows the admin to view all products by executing the viewAll method in the admin class.

15. ViewAvailable.php

This page allows the admin and client to view all available products by executing the viewAvailableOrRentedmethod in the user class.

16. ViewRented.php

This page allows the admin to view all rented products by executing the viewAvailableOrRentedmethod in the user class.

17. ViewItem.php

This page will only display the information of an item to an admin. In the case of the user being a client, if the status of the item being viewed is available a form will be displayed allowing the client to rent the product. If the status of the item being viewed is not available, the system will check if the client is the person renting the product. If the client is not the person currently renting this product, the page will only display the information of the product. However, if the client is the one renting the product, a form will be displayed allowing the client to either extend or return the product.

18. a3.sql

This file can be imported in mysql to recreate the database