

PHP Classes

Create abstract class User that will contain following protected properties: firstName, lastName, username, password, role. The values of these properties need to be set with constructor.

Make method userPrint() that won't be inherited in classes that will extend User class. This method returns text in following format: "first name: \$firstName, last name: \$lastName, username: \$username, role: \$role". Also you need to define abstract methods: login() and logout()

Create class Member that extends the class User. Additional this class needs to contain following properties: posts(protected), authenticated(private). Class constructor needs to set the value of posts property to empty array and the value of authenticated property to false. Also you need to call the constructor of the User class.

Create login() method that will read from file users.txt. The content of users.txt contains users in the following format: "username:password". The login() method needs to iterate all users in users.txt(fill this file with users manually) file and if finds matching row for username and password need to set the value of authenticated property to true.

Create method isLoggedIn() that will returns the authenticated property.

Create method getRole() that will returns the role property.

Create method logout() that will set the value of authenticated property to false.

Create method identity() that will return the following text: "first name: \$firstName, last name: \$lastName, username: \$username, role: \$role, authenticated: \$authenticated".

Create interface TopicInfo that will contain next methods: printTopic() and printPosts()

Create class Post that will contain following private properties: createdTime, category, title, text. The class constructor need to save time of creation. For the other properties create setters and getters.

Create class Topic that will implement the TopicInfo interface. The class will contain following private properties: title, author(object from Member class), category, createdTime, posts. This posts property will contain associative arrays of objects from Post and Member classes. In the constructor you need to check if the author that is incoming parameter in the constructor is authenticated and his role is admin otherwise print error: "User:" . author->identity() . "is not able to create topic with title: \$title".

Create method addPost that expect two input parameters: author and post. This method will check if the author is authenticated and have role MEMBER and if the category of the post is same with the category of the topic and if everything is okay you need to save these input parameters in posts array as associative array element([author' => \$author, 'post' => \$post]). Otherwise print following error: "User:" . \$author->identity() . " is not able to add post with title: " . \$title

Create method printTopic() that will return text in following format: "Topic" . \$title . "created by: " author->identity() . " creation date: "\$createdTime

Create method printPosts() that will all posts in following format: "Post: " . \$post->getTitle() . " created by:" . author->identity() . " date: " . \$post->createdTime