

Authentication

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Authentication

Editing Content

- We don't want just any user to be able to edit the site's content.
- Limit the access to certain URLs based upon if a user is not logged in or not.

Authentication

 Identifying a user from the provided information (credentials – username and password)

Types of Authentication

- FormAuthenticate
 - Based on form post data
- BasicAuthenticate
 - □ Basic HTTP authentication
- DigestAuthenticate
 - Digest HTTP authentication

Authentication Setup

Add a New Table

- Create a new table 'users'
- Following the CakePHP naming conventions

Bake All

- Remember baking the CRUD?
- Navigate to the Console folder
 - □ ./cake bake all
 - Choose the users table

Add Authentication

Now we are ready to lock down the site.

Components

What Are Components?

"Packages of logic that are shared between controllers" – CakePHP.org

CakePHP List of Components

- Pagination
- Sessions
 - This has already been implemented in the web site
- Authentication
- Security
- Request Handling
- Cookie
- Access Control Lists

AuthComponent

AuthComponent

- Provides a modular way to identify, authenticate and authorize users
- Add 'Auth' as an element to the \$components array
- Example
 - public \$components = array('Auth');

Log In/Log Out

Log In View

- We need a new form to log in the users.
- This will entail adding new View and an action in the Users Controller.

Auth->login()

- Authenticates the user from the log in form, no additional coding needed.
- Example
 - sthis->Auth->login();

Log Out

No view needed, but we will need a way to log out the user

Auth->logout()

- Logs the user out with no additional coding.
- Example
 - □ \$this->Auth->logout();

beforeFilter()

Method: beforeFilter

- Used in the controller class, including the AppController
- Called before any controller action is called
- This makes it ideal to check user permissions

Auth Allow

Auth->allow()

- Utilize our new beforeFilter method to allow the user access to certain pages/actions.
- By default CakePHP will deny access to all pages if the user is not logged in.
- Grant Permissions
 - Specify the actions in the controllers that are allowed to be accessed if the user is not logged in
- Can be added site wide (AppController) or inside each of the controllers
- Example
 - sthis->Auth->allow('index', 'view;');

Is User Logged In?

- Limit Certain Content if a User is Not Logged In
 - In order to check if a user is logged in we call the method user() from the AuthComponent class
 - Example
 - a AuthComponent::user();

Passwords

Field Password Compared

- The Auth->login() method compares the log in post data (hashed) to the table field data
- Stored password for this reason need to be saved in their hashed state

How Do We Accomplish This?

- We need to be able to intercept our post data before it gets saved to the database
- CakePHP provides a nifty function called beforeSave()
 - This allows up to manipulate the data before sending it on to be saved by the Model

Location

 Since the Models in CakePHP deal with the data, this method is used in the Model class

Password Hashing

Password Variable

- All post data is stored in the data variable with a key based on the Model name:
 - sthis->data['ModelName']
- The field in the database is the next key in the data associated array
- Example
 - sthis->data['User']['password']

AuthComponent Provides Hashing Method

- a AuthComponent::password()
- Example
 - a AuthComponent::password(\$this->data['User']['password']);

Summary

- Create Users Table
 - □ Baked the CRUD
- Created Login Page
- Added the Auth Component
- Limited Pages
- Hash and Store Passwords

YUM!

