New Brunswick Tourism Content Management System

Overview

The New Brunswick Tourism Content Management System allows administrator to edit page content and navigation menu without touching the source code.

API Documentation

The whole management system is API based. You can access the API via {domain}/api

For endpoints that needs authorization, the requesting client must have a valid cookie contains a valid login token. Therefore, no server-side request can be made. (Unless you modifier the header)

In order to use the API, you have to be able to make POST requests, here is the format for request body:

action={endpoint name}&{querystring}

Endpoint	Request (query string)	Response (json)

login	username={username}& password={password}	{
		    "status":"success" or "failed",
		    "token":{authorization token}
		}

create_page	title={page title}& description={description}& keywords={keywords}& content={content}	{
		    "status":"success" or "failed"
		}

get_all_pages	null	{
		    "status":"success" or "failed",
		    "data":[{
		        "title":{page title},
		        "content":{page content},
		        "description":{description},
		        "keyword":{keyword}
		    },...]
		}

update_page	old_title={old page title}& title={new page title}& description={new page description}& keywords={new page keywords}& content={new page content}	{
		    "status":"success" or "failed"
		}

delete_page	title={page title}	{
		    "status:"success" or "failed"
		}

create_nav	text={display text}&
	link={link}&
	order={display order}
		{
		   "status":"success" or "failed"
		}

get_all_navs	null	{
		   "status":"success" or "failed",
		   "data":[{
		      "text":{nav text},
		      "link":{nav link},
		      "order":{display order}
		   },...]
		}

update_nav	old_text={old display text}&
	text={display text}&
	link={link}&
	order={display order}
		{
		   "status":"success" or "failed"
		}

delete_nav	text={display text}	{
		   "status":"success" or "failed"
		}

Database Structure

This simple CMS contains 4 tables: users, auth_tokens, navigation, pages

```
users

+----------+--------------+------+-----+---------+----------------+
| Field    | Type         | Null | Key | Default | Extra          |
+----------+--------------+------+-----+---------+----------------+
| id       | int(11)      | NO   | PRI | NULL    | auto_increment |
| username | varchar(512) | YES  |     | NULL    |                |
| password | varchar(512) | YES  |     | NULL    |                |
| salt     | varchar(512) | YES  |     | NULL    |                |
+----------+--------------+------+-----+---------+----------------+
```

```
auth_tokens

+-------------------+--------------+------+-----+---------+----------------+
| Field             | Type         | Null | Key | Default | Extra          |
+-------------------+--------------+------+-----+---------+----------------+
| id                | int(11)      | NO   | PRI | NULL    | auto_increment |
| user_id           | int(11)      | YES  |     | NULL    |                |
| token_body        | varchar(512) | YES  |     | NULL    |                |
| client_identifier | varchar(512) | YES  |     | NULL    |                |
| expire_time       | int(11)      | YES  |     | NULL    |                |
+-------------------+--------------+------+-----+---------+----------------+
```

```
pages

+------------------+--------------+------+-----+---------+-------+

| Field            | Type         | Null | Key | Default | Extra |

+------------------+--------------+------+-----+---------+-------+

| name             | varchar(512) | YES  |     | NULL    |       |

| content          | longtext     | YES  |     | NULL    |       |

| meta_description | longtext     | YES  |     | NULL    |       |

| meta_keywords    | longtext     | YES  |     | NULL    |       |

+------------------+--------------+------+-----+---------+-------+
```

```
navigation

+---------------+----------+------+-----+---------+-------+

| Field         | Type     | Null | Key | Default | Extra |

+---------------+----------+------+-----+---------+-------+

| display_text  | longtext | YES  |     | NULL    |       |

| display_order | int(11)  | YES  |     | NULL    |       |

| link          | longtext | YES  |     | NULL    |       |

+---------------+----------+------+-----+---------+-------+
```

Template System

Not really a template system, but similar to one

index.php will include header.php, content.php footer.php in order.
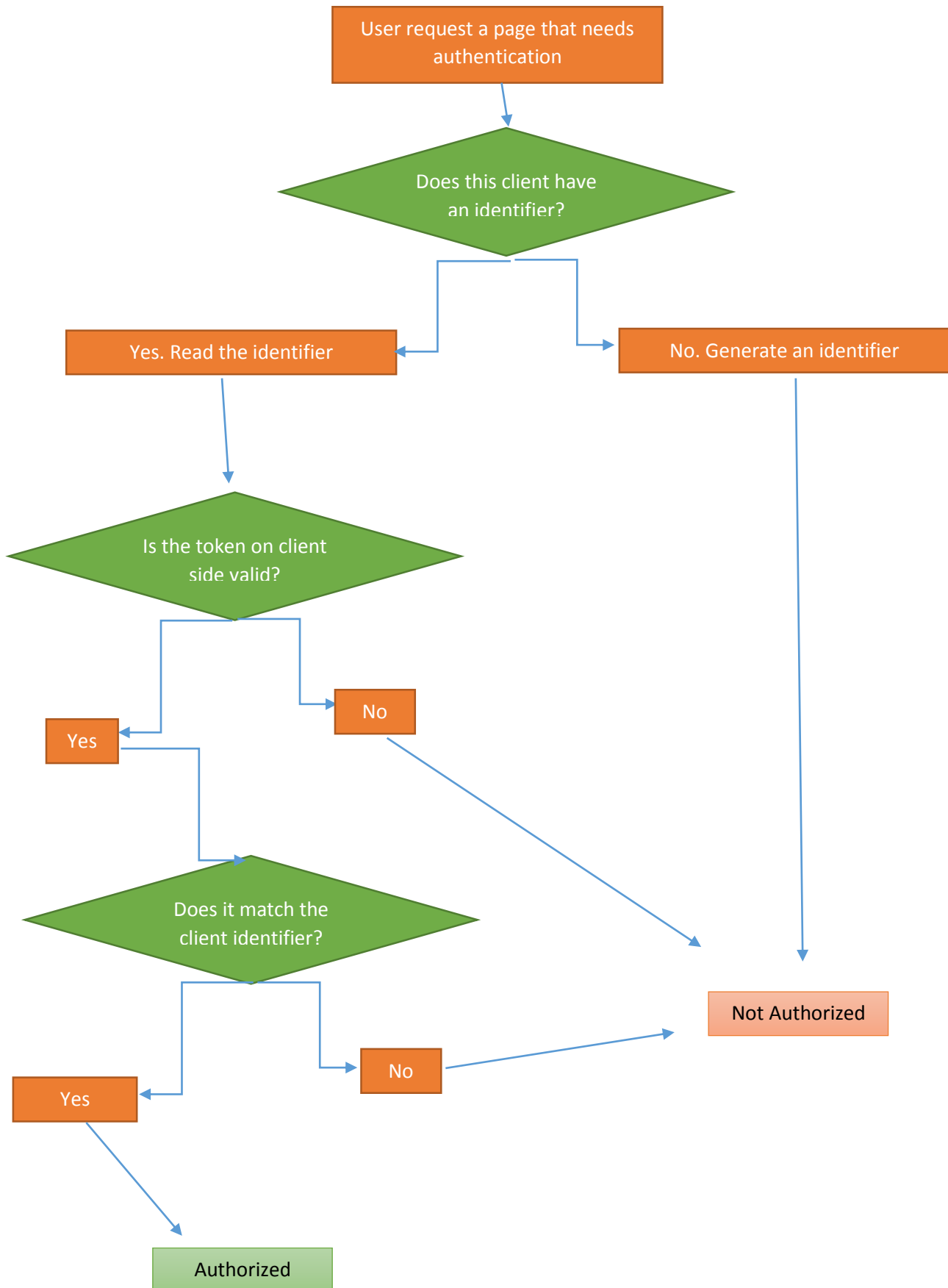
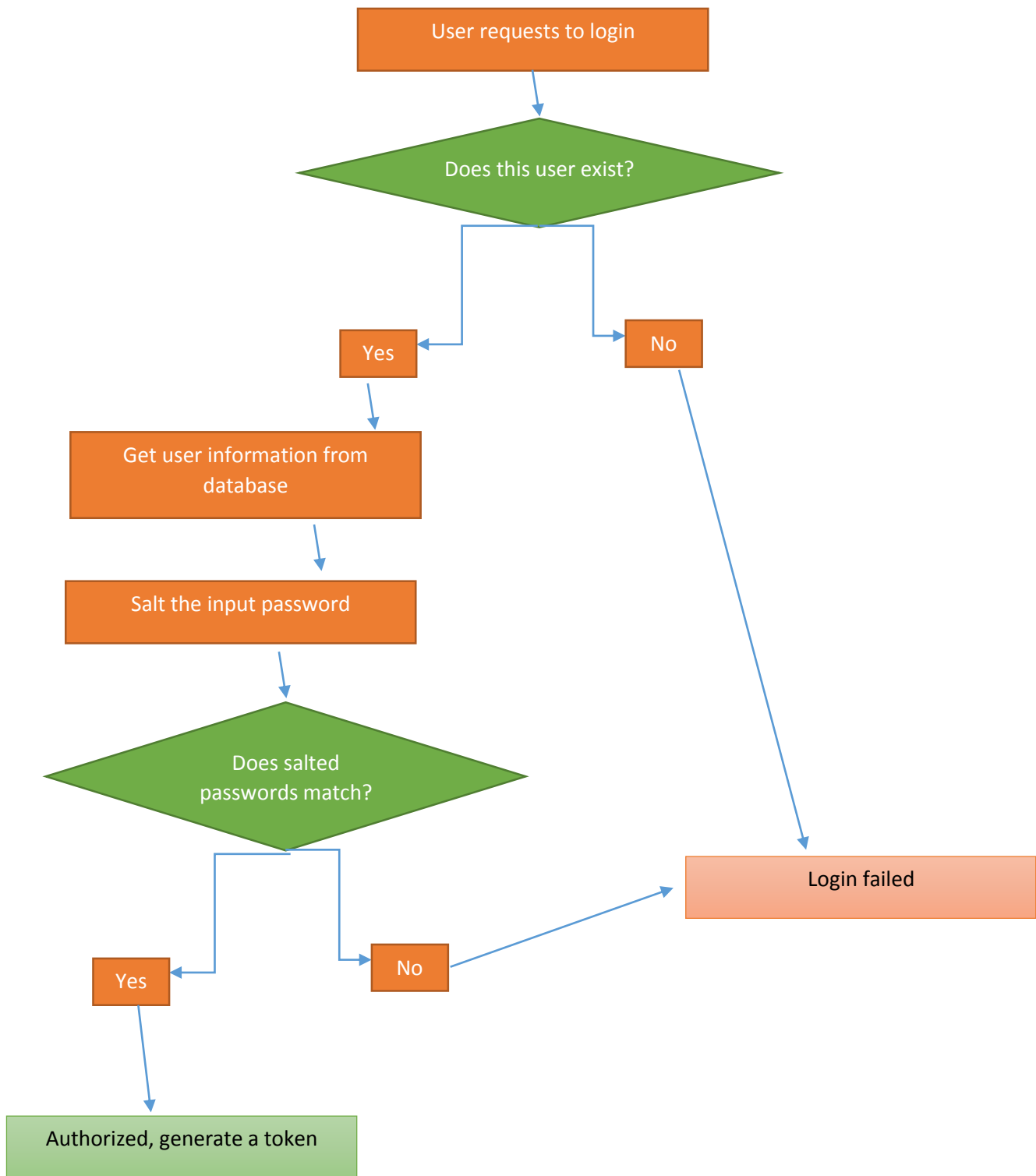header.php will then include nav.php

header.php does not output <head>, <head> is managed in index.php

User Authentication System

Users are authorized using tokens. If a token is valid and matches client identifier, the user is authorized.

Workflow:

```
User request a page that needs
authentication
```

```
Does this client have
an identifier?
```

```
Yes. Read the identifier          No. Generate an identifier
```

```
Is the token on client
side valid?
```

```
Yes          No
```

```
Does it match the
client identifier?
```

```
Yes          No
```

```
Not Authorized
```

```
Authorized
```

```mermaid
flowchart TD
    A[User requests to login]
    B{Does this user exist?}
    C[Yes]
    D[No]
    E[Get user information from database]
    F[Salt the input password]
    G{Does salted passwords match?}
    H[Yes]
    I[No]
    J[Login failed]
    K[Authorized, generate a token]

    A --> B
    B --> C
    B --> D
    C --> E
    E --> F
    F --> G
    G --> H
    G --> I
    D --> J
    I --> J
    H --> K
```

User requests to login

Does this user exist?

Yes

No

Get user information from database

Salt the input password

Does salted passwords match?

Yes

No

Login failed

Authorized, generate a token

Rewrite Conditions

Your server must have RewriteEngine enabled, otherwise the website will not work with SEF urls.

In order to achieve search engine friendly urls, the cms uses rewrite

Simply add one more word to RewriteRule if you want another page to be SEO.

#AllowOverride all

RewriteEngine on

RewriteCond %{REQUEST_FILENAME} !-d

RewriteRule ^((index|explore|play|plan))$ index.php?p=$1 [NC,L]

Other Information

Login username : competitor4

Login password : skills2016

Login url : /login

Admin url : /admin

API url : /api

HTML entities conversion
Since it is intended for users to edit HTML in admin panel. HTML entities are not converted.

The only place where HTML entities are converted is page title

When first installed, this is what you will have:
Home page: /index or /index.php?p=index

Explore page: /explore or /index.php?p=explore

Play page: /play or /index.php?p=play

Plan page: /plan or /index.php?p=plan

Reviews page: / what%20are%20people%20saying or /index.php?p=what%20are%20people%20saying

We Love NB page: /why we love new brunswick or
/index.php?p=why%20we%20love%20new%20brunswick

404 page: /index.php?p=typeinransomstuffhere

Navigation bar is connected to SEF links by default, if you cannot configure your server to use SEF links, please change them to /index.php?p={page} format in admin panel

Troubleshoot

404 error, there shouldn't be any "/" after url, for example
/index not /index/

Object not found!

The requested URL was not found on this server. If you entered the URL manually please check your spelling and try aga

If you think this is a server error, please contact the webmaster.

Error 404

localhost
Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/7.0.6

Funky looking website with no styles
Your server is not configured properly, see Rewrite Conditions section for more information

Database Error
Make sure you check config.php

PHP warnings all over the place
Your database is empty, add stuff in

The website lags
Yes it lags, it is normal

Unable to login
You cannot recover your password, the best way is to reset users table, create and run a php file in root directory that has the following content.

```php
<?php

 include "include/config.php";

 include "include/database.php";

 include "include/user.php";

 $dbConnection = new DatabaseConnection($database);

 $user = new User($dbConnection);

 $user->create("your new username","your new password");
```

?>

Make sure you delete it after you done