Project 05

Specifications

Part 1 - Functional Specifications

Project context

As part of my developer training, this project consists of introducing myself and highlighting my skills as a web application developer through the creation of a blog.

Project requirements

Creation of my professional blog.

Interface description

Two big parts

- Part dedicated to visitors
- Part dedicated to blog administration.

Pages list.

- Home page
- Blog-posts list page
- Blog-Post view
- Add a blog-post
- Edit a blog-post
- Delete a blog-post
- Sign-in page
- Sign-up page
- Administration pages
    - Users administration
        - Members list
        - Members to validate
    - Members blog-posts comments list to validate
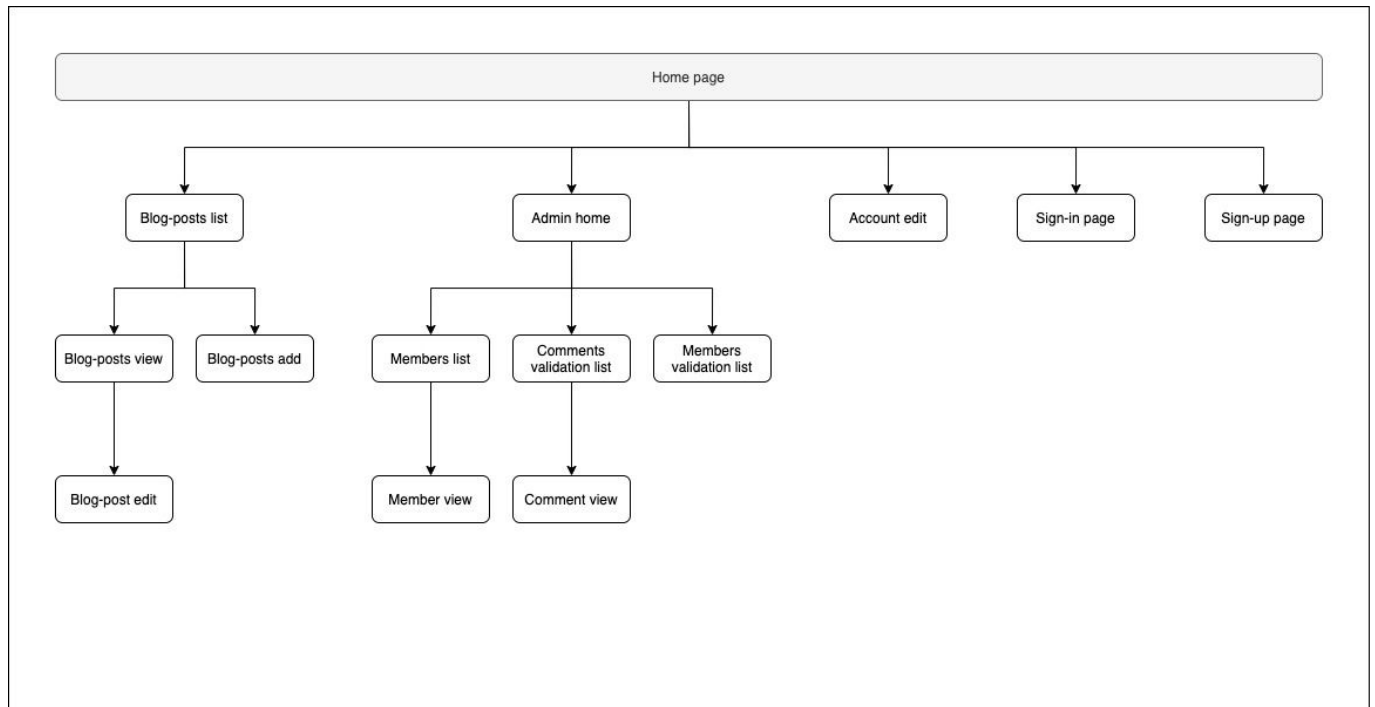
Application design structure

Header

Navigation menu

Footer

Link to blog administration.

Application navigation map

Pages details

Home page

- First name and last name
- Photo and/or logo
- Tagline
- Navigation menu
- Contact form
    - First name and last name
    - Contact email
    - Message
  This contact form sends an email to administrator width visitor informations
  (first name, last name, email and message)
- Link to my pdf resume.
- Socials links (Twitter, GitHub, StackOverflow, …)

Blog Posts List page

Blog-posts list displayed from most recent to oldest one.
Foreach item:
- Title
- Last update time
- Chapô
- Link to the post

Blog-post view page

- Title
- Chapô
- Content
- Author
- Last update time

- Add comment form (To be validate by admin user)
- List of comments validated and published

Blog-Post edit page

Blog post admin can modify:
- The title
- The chapô
- The Author
- The content

Admin home page

List of validated members
Foreach item:
- First name and last name
- Email
- Link to member view page

Admin member view

Member details:
- first name
- last name
- Email
- number of comments
- Button to lock/unlock user
- Button to delete user

Admin members validation list

List of members awaiting validation
Foreach item:
- First name and last name
- Email
- Validation button
- Rejecting button

Admin comments validation list

List of comments awaiting validation
Foreach item:
- Blog-Post title
- First name and last name,
- Comment excerpt
- Link to comment view.

Admin comment view

- Blog-post title
- Blog-post chapô
- Member details (name, email, …)
- Comment
- Button to validate
- Button to reject
- Link to blog-post

Account Edit

Form 1:
- First name,
- Last name,

Information
- Number of comments.

Form 2:
- Email
- Button to modify email

Form 3:
- Button to modify password

Button to delete account

Sign-in page

Form with:
- Email
- Password
Forgot password Link
Sign-up link

Sign-up page

Step 1 - Form with:
- First name
- Last name
- Email address
- Password
- Password confirmation
Step 2 - After sending form, a new form with:
- Security code
Link to send a new code
Link to go back to the first sign-up step.

Part 2 - Technical specifications

Languages
PHP, HTML, Javascript, SQL.

Project dependencies

Management
Composer for php dependencies
Yarn for javascript dependencies

Php dependencies

Framework dependencies list:
- php: "^7.4"
- twig/twig: "^3.0"
- psr/container: "^1.0"
- ext-json: "*"
- ext-pdo: "*"

Project dependencies:
- pierregaimard/climb: "^1.0"
- swiftmailer/swiftmailer: "^6.0"

Javascript dependencies

- Jquery
- uiKit
- List.js
- Anime.js

Database

Technology: mysql
Charset: utf8mb4
Tables engine: INNODB

Security

Administration area

Admin pages access management. Just administrators can access administration pages.

Security failures management

XSS, CSRF, SQL Injection, Session Hijacking, Upload of php scripts

Security roles

Admin

Only the admin can access the admin area.
Admin can modify a blog-post.
Admin can delete a comment.
Admin have to validate members' comments before their publication.

Member

Authenticated users can add a comment to a blog-post. (It must be validated by the admin user)

Visitor

The visitors can access to the home page and the blog-posts pages,
They can read the comments but can not modify anything.

Design constraints

The site must be responsive.