

# 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
- 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

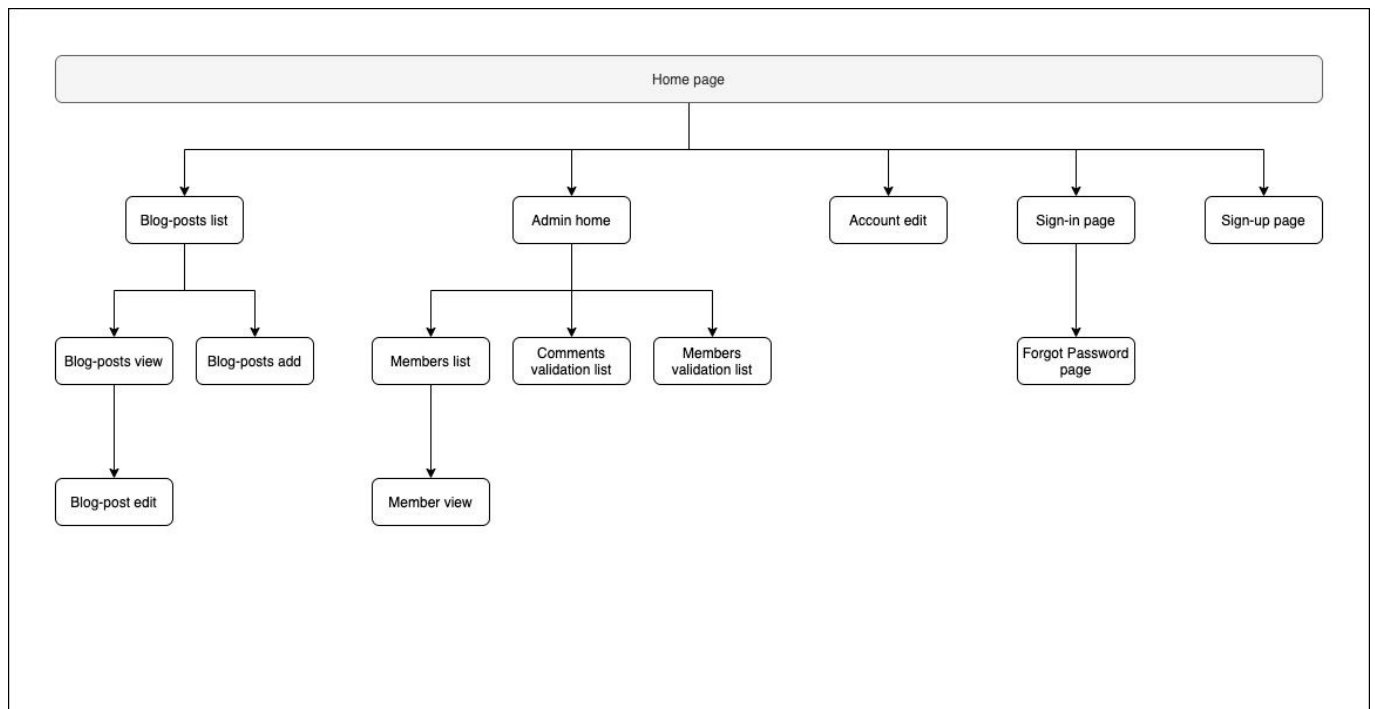
Header

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 with 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

Menu:

- Members list
- Members validation list
- Comments validation list

#### Admin members list

List of validated members

Foreach item:

- First name and last name
- Email (large screen)
- 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 (large screens)
- Approve button
- Reject button

#### Admin comments validation list

List of comments awaiting validation

Foreach item:

- Blog-Post title
- Author first name and last name,
- Comment

#### Account Edit

*Form 1:*

- First name,

- Last name,
- Validation button (visible when data is modified)

*Form 2:*

- Email
- Validation button (visible when data is modified)

*Form 3:*

- Actual password
- New password
- New password confirmation
- Validation button (visible when data is modified)

*Button to delete account*

Visible for members.

Sign-in page

Form with:

- Email
- Password

Forgot password Link

Sign-up page

Step 1 - Form with:

- First name
- Last name
- Email address

Step 2 - After sending form, a new form with:

- Security code
- Link to send a new code

Step 3 - After sending form, a new form with:

- Password
- Password confirmation

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## Part 2 - Technical specifications

### Languages

PHP, HTML, Javascript, SQL.

### Project dependencies

#### Management

Composer for php dependencies

Yarn for javascript/css 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
- Highlight.js
- ckEditor5

### 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 approve/reject a comment.

Admin has to validate members' comments before their publication.

Admin can approve/reject member

Admin can access his account settings and modify them.

### *Member*

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

Members can delete their comments.

Members can access their account settings and modify them.

Members can delete their account

### *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.