T5 – Front-end web development

T-WEB-501

My GoHugo

UI / UX

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My GoHugo

repository name: WEB_my_gohugo_$ACADEMICYEAR
repository rights: ramassage-tek
language: Hugo

INTRODUCTION

Today, you are asked to create a *"Hugo"* theme for French town halls. This theme, once integrated into a site, must allow them to :

1. Post upcoming events in the city
2. Archive past events in the city
3. Have a list of associations in the city
4. Have a list of municipal council members
5. Have a contact page

In order to provide them with an adequate tool, you will build a static site using the *"Hugo"* framework for several reasons:

1. The data to display is relatively static: an SQL database is not absolutely necessary
2. No account management, session, ... : a back-end is not necessary
3. With 2 million inhabitants in Paris, the site of their town hall will have a high traffic: it must be extremely reactive
4. We want to avoid any security breach : the use of proven and solid third-party services is therefore recommended

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Site creation

To start, create your "my_gohugo" site as seen in the bootstrap using :

```
▽                              Terminal                          —  +  x
~/T-WEB-501> hugo new site my_gohugo
```

Once your site is created, you will start designing your theme so you can reuse it if necessary.
It will be named "my_gohugo-theme" :

```
▽                              Terminal                          —  +  x
~/T-WEB-501> hugo new theme my_gohugo-theme
```

> ☢ It's **strictly forbidden** to use an existing theme!

Archetypes

> ☢ You are free to add as many fields as you like to your `archetypes`, but you **can not** remove them.

+ Events

As previously explained, it must be possible to create and archive (**automatically**) events.
You are responsible for creating the `archetype` for your events. However, events will be stored in the `/content/events` folder. In addition, an event must **must** have the following fields :

- `'title'` (**required**) : The title of the event
- An address broken down into several fields :
    - `'address'` (**optional**) : Street and street number
    - `'postalCode'` (**required**) : Postal Code (default :"75000")
    - `'city'` (**optional**) : City (default :"Paris")
    - `'label'` (**required**) : The place that will be displayed (ex : Hotel de Ville Paris 7ème)
- `'when'` (**required**) : Event run date (default : today's date)
- `'description'` (**optional**) : A description of the event
- `'photos'` (**required**) : One ** or more ** photo (s) of presentation

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- `'draft'` : **True** if the event **should never be displayed** (default : true)
- `'important'` : **True** if the event **is important** (default : false)
- `'association'` : The name of the organizing association (empty if there is none)

> An event is automatically considered "archived" if its `'when'` date is passed.

+ MUNICIPAL COUNCIL

The municipal council is composed of several members. These members will be stored in the folder `'/content/conseil-municipal'` and will have at least the following fields :

- `'firstNames'` (**required**) : The first name (s) of the member
- `'lastName'` (**mandatory**) : The last name of the member
- `'role'` (**mandatory**) : The role of the member on the municipal council (default : "Deputy")
- `'photo'` (**optional**) : A photo of the member (if not specified, a default photo will be displayed)

You will need to display the last name of the members in **capital letter**.

+ ASSOCIATIONS

Associations will be stored in the `'/content/associations'` folder.
They will have the following fields :

- `'title'` (**required**) : The name of the association
- `'domain'` (**mandatory**) : The domain of the association (eg: football, dance, music, …)
- `'address'` (**optional**) : The address of the association
- `'description'` (**optional**) : The description of the association
- `'photo'` (**optional**) : A photo of the association
- `'important'` : **True** if the association is "in the spotlight" (default : false)

Partials

As seen in the bootstrap, it is possible to use "partials" with *"Hugo"*.
Using these, you must display a navigation bar at the top of your site with at least the following links :

- Home : Back to homepage
- Municipal Council : Displays the page "Municipal Council"
- Associations : Displays the "Associations" page
- Events : Displays all events (past and future)
- Upcoming Events : Displays all upcoming **events**
- Archived Events : Displays all past **events**
- Calendar : Poster as a calendar **all** events

> Remember to group your menus into subcategories using "dropdown" so you do not have a big navigation bar.

In addition, you will also have an "aside" menu that will have two main functions :

- Search bar : A search bar to search **throughout the site**
- List of associations "in the spotlight"

> Each association in this list will have a link to its detail page.

Finally, you must create a contact page that will be **directly included in the "footer"**.
It will have three features :

- View the address of the town hall (a Google Maps plan is even more ergonomic !)
- Display the phone number of the town hall (with a link to the telephones)
- Display a contact form

Since you are building a static site without a back end, the contact form will be managed by a third-party tool. This form will have three fields :

- Sender : the email address of the user
- Subject : The subject of the email
- Message : The content of the mail

You will receive by email every responses to the form.

> Look at online form builders.

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Content

+ Homepage

The homepage is one of the most important pages of the site.Indeed, it will be the first page visited by the user. As a result, it must :

1. Have a fast loading time
2. Give the user the desire to see more
3. Do not display too much information

Your client wants to include important upcoming events on the homepage. In order to tempt the user without slowing down the page load time, you will need to display the next **10 important events** on this page , sorted by increasing date.
Each event will see the following information displayed :

- `'title'`
- `'label'`
- `'when'`
- `'photo'`

In addition, the `'title'` events will also be links to the details of the event in question.
This detail page **should not be** available if the article is still a `'draft'`. It will display **all** the information of an event.
Finally, if the organizer is an association, a link must be available to obtain the details of this organization.

> Not all images will have the same resolution, so be sure to resize images that are too large so that they do not break your homepage display!

+ Pages Events

The events will be displayed on several pages :
- "All events" page : shows all events
- "Archived Events" page : shows past events
- "Upcoming Events" page : shows upcoming events
On all these listing pages, the following fields will be displayed :

- `'title'`
- `'when'`
- `'label'`

In addition, each event will have a link to display the details of the event in question.

+ Municipal Council Page

On this page, you will see the members of the Municipal Council in the form of an organization chart. You are free to choose the form that you want for the latter, but do not forget to take into account the user experience.You will have to display in your organization chart all the information of the members of the municipal council :

- `'firstNames'` and `'lastName'`
- `'role'`
- `'photo'`

A good practice is to take inspiration (and **only** inspiration) from existing sites to build your design.

+ Presentation of the town hall

In addition to having an organization chart, the site will also display the presentation of the town hall. As a result, it will be possible to create a `'/content/presentation.md'` file with the following information :

- `'photo'` (**optional**) : A photo of the town hall

The content `'.Content'` will correspond to the presentation text of the town hall.
This presentation will be defined in **a partial file**, and this file will be **directly included** in the "Municipal Council" page.

+ Page Associations

This page will contain the list of all associations referenced on the site.
You are free in your display choice, but we require you to display the following information for each association :

- `'title'`
- `'domain'`

In addition, the `'title'` associations, as well as the events, will have a link to the details of this association. Finally, you will also need to display a list of all **upcoming** events on this page which are linked with this

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association. You will also display a button that will show past events in addition to upcoming events. The text of the button will have to change according to the operation that it will carry out (to display or hide past events).

- JavaScript
- Propriété CSS `'display'`

Again, think carefully about the display preferences that you choose ! You'll have to explain your choices in the defense.

+ Calendar Page

For this last page, you are once again free to choose your design.
In addition, we recommend the use of a third-party service or library rather than developing your own calendar.
Nevertheless, make sure that the chosen calendar corresponds to the desired use for the town hall and that you able to justify your choice of design.

Be careful not to display too much information in the calendar so as not overload it !

Conclusion

You now have a tool for town halls to display events, associations and municipal council members in the city.
You know now :

- Generate the base of a static site, a theme and content files using the `hugo` executable
- Architect your files and folders to respect the routing of *"Hugo"*
- Integrate a third-party service into a static site
- Add custom content to *"Hugo"*
- Use the templating system of *"Go"*

The user experience within a website is very important, and the choice and development of design is significant. Do not be afraid to spend a lot of time on this part, the front end is as important as the back end.

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Finally, there are many technologies and frameworks dedicated to web development. Some are more suitable than others depending on the site you want to build. Be sure to choose the right technology and framework before you start a project !

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