

PIM: Design HTML structure and CSS styling for the appearance and behaviour of the application

Design Sketch Of The Login Page

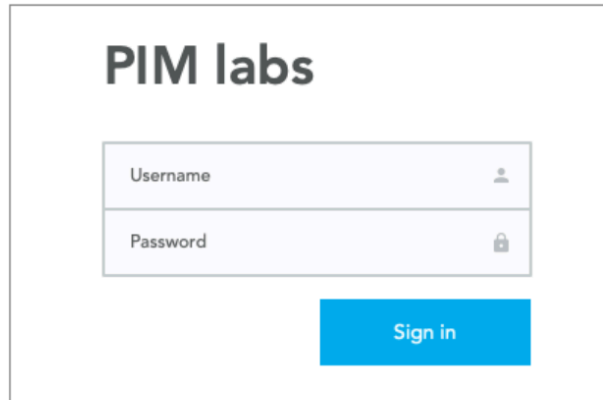


Fig. 6 PIM login view

Outer container (<div class="login-container">)

- **Logo section (<div class="logo">)**

Image for the logo (or <h1> if text-based)

Title section (<h2 class="login-title">)

"Login" heading text

Form section (<form class="login-form">)

Username field (<div class="form-group">)

<label> for "Username"

<input type="text"> for entering username

Password field (<div class="form-group">)

<label> for "Password"

<input type="password"> for entering password

Login button (<button class="btn-login">)

"Login" text

Extra options (<div class="extra-links">)

"Forgot Password?" link (<a>)

"Sign up" link (<a>)

Design Sketch Of The PIM Search Page

PIM labs			
<input type="text" value="gut"/>			
<button>Create particle</button> <button>Search</button>			
#123	2024-05-23	Article on gut bacteria	<button>View</button> <button>Edit</button>
#21	2024-01-12	Gut health and the brain	<button>View</button> <button>Edit</button>
#79	2024-03-11	Gut-wrenching story on Gaza	<button>View</button> <button>Edit</button>
#66	2024-07-10	How to pay attention to your gut-feel	<button>View</button> <button>Edit</button>

Fig. 7 PIM search page

Top-Level Structure

- **<main class="container">**
- *Page wrapper – holds all visible content in a centered, max-width layout.*

Header Area

- **<h1 class="app-title">PIM labs</h1>**
- *App title – branding and page heading.*
- **<form id="quickCreate" class="row">**
- *Quick create/search form – groups search input & action buttons.*

Search Controls

- **<input id="q" class="input">**
- *Search field – type keyword or new title.*
- **<button class="btn btn-create">Create particle</button>**
- *Creates a new article if search yields no match.*
- **<button class="btn btn-search">Search</button>**
- *Executes the search request.*

Results List

- `<section id="results">`
- *Search results container.*
- `<ul class="results">`
- *List of search results.*

Result Card

- `<li class="result-card">`
- *One search result row — contains ID, date, title, and action buttons.*
- `#123`
- *Unique article ID.*
- `<time class="date">2024-05-23</time>`
- *Article creation date.*
- `<button class="title-link">`
- *Clickable title — expands/collapses preview.*
- `View`
- *Opens full article view.*
- `Edit`
- *Opens editor to modify article.*

Expanded Preview

- `<div class="preview">`
- *Inline article snippet — shows content without leaving search page.*

Overall Hierarchy

```
<main.container>
  <header>
    <h1.app-title>
    <form#quickCreate.row>
      <input#q.input>
      <button.btn.btn-create>
      <button.btn.btn-search>
  <section#results>
    <ul.results>
      <li.result-card>*
        <span.id>
        <time.date>
        <button.title-link>
        <a.btn.pill.view>
        <a.btn.pill.edit>
        <div.preview.markdown> (visible when .result-card.expanded)
```

Design Sketch Of The PIM Search Page

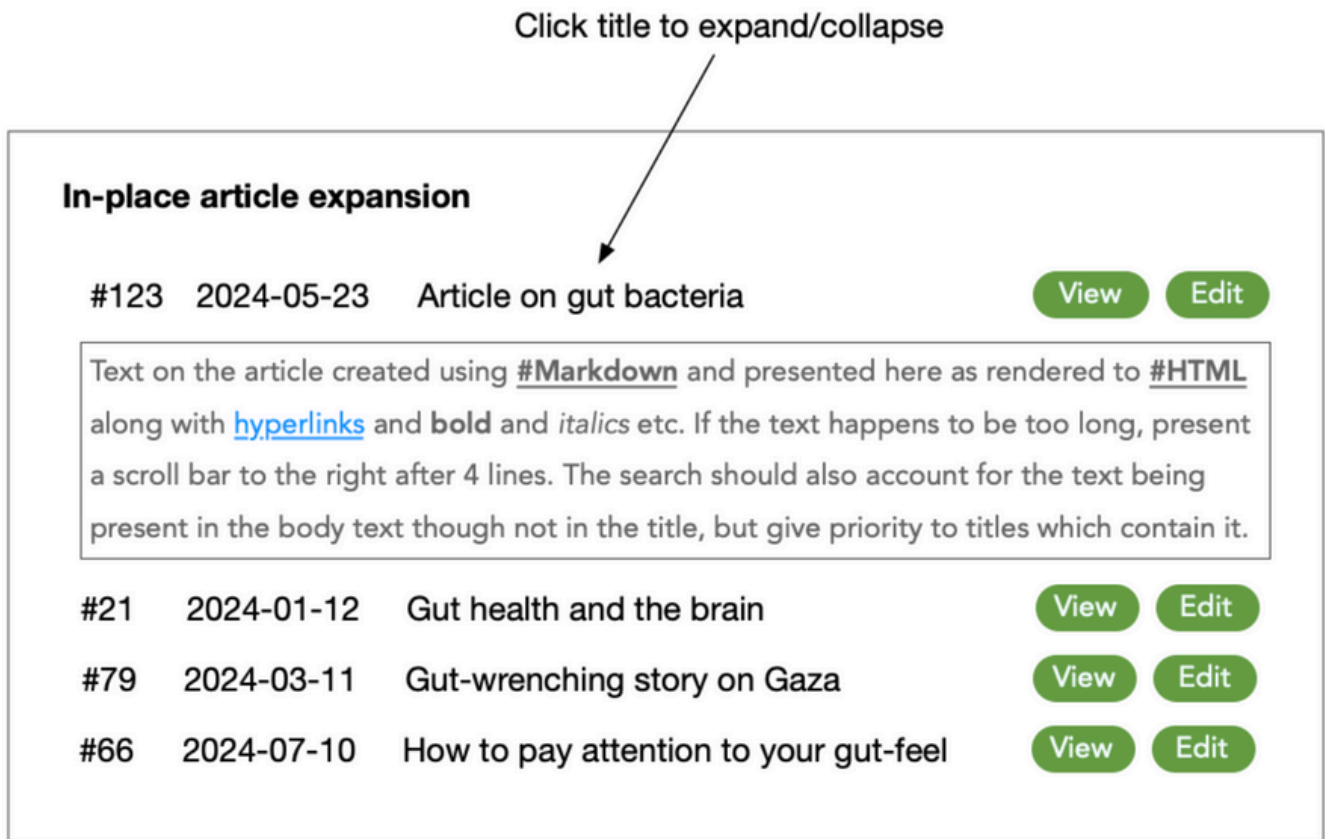


Fig. 8 PIM search results list and in-place viewer

Interaction State

- `<li class="result-card [expanded]">`
- Result row supports a toggled state. When `.expanded` is present, the preview is visible; otherwise it's hidden.

Title Toggle

- `<button class="title-link" aria-expanded="false" aria-controls="preview-123">`
- Interactive control for expand/collapse. `aria-expanded` reflects state (true/false), and `aria-controls` points to the preview panel.

Preview Panel

- `<div id="preview-123" class="preview" hidden>`
- Collapsible detail region rendered in-line below the row's main fields. Initially hidden; becomes visible when the row is expanded.

Live Status

- `<p id="statusMsg" class="muted" aria-live="polite">`
- Announces status like "Expanded" / "Collapsed" for accessibility (optional but recommended).

Default Hidden Rule (CSS Hook)

- `.preview { display: none; }` and/or `hidden` attribute

- Ensures the preview is not visible until expanded.

Overall Hierarchy

```
<li class="result-card [expanded]">      ← Result row container (state: collapsed or expanded)
  — <span class="id">#123</span>          ← Metadata: unique article ID
  — <time class="date" datetime="2024-05-23">2024-05-23</time>
      ← Metadata: article creation date
  — <button class="title-link"
      aria-expanded="false"
      aria-controls="preview-123"
      type="button">
      Article title here
    </button>
      ← Title toggle: expands/collapses preview
  — <a class="btn pill view" href="#">View</a>
      ← Action: open full article view
  — <a class="btn pill edit" href="#">Edit</a>
      ← Action: open article editor
  — <div id="preview-123"
      class="preview markdown"
      role="region"
      aria-labelledby="title-123"
      hidden>
    <article class="particle">
      <header>...</header>
      <section class="body">Inline snippet content...</section>
      <footer class="tags">#tag1 #tag2</footer>
    </article>
  </div>
      ← Expandable content area (hidden unless .expanded is present)
```

Design Sketch Of The PIM Particle Viewer

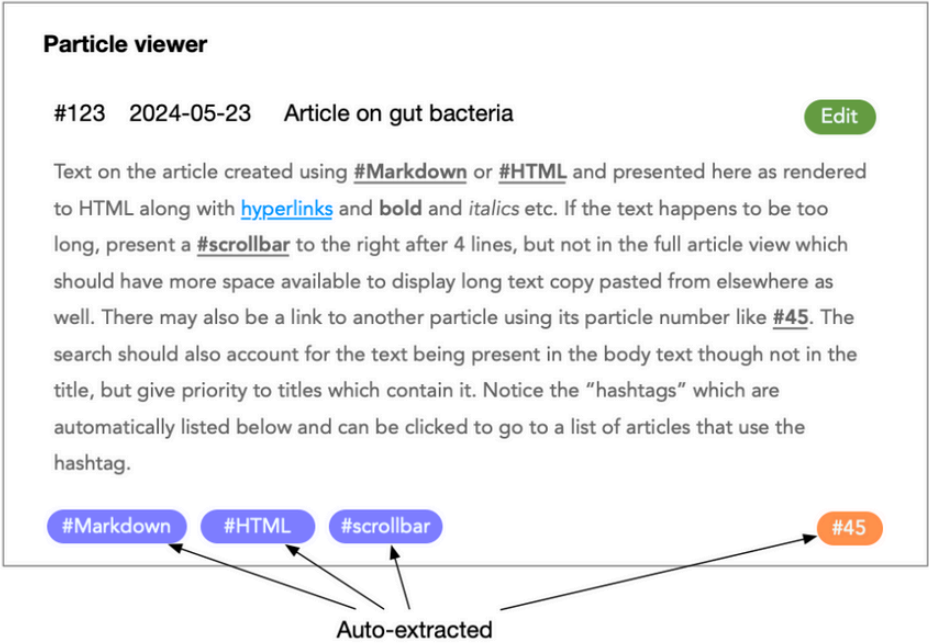


Fig. 9 PIM particle viewer

Main Container: <article class="particle-viewer"> - semantic container for the complete particle

Header Section: <header class="particle-header"> containing:

- **Title:** <h1 class="particle-title"> - "Particle viewer"
- **Metadata group:** <div class="particle-metadata"> bundling:
 - Particle ID:
 - Date:
 - Article title:
 - Edit button: <button class="edit-btn">

Content Section: <main class="particle-content"> containing:

- **Article body:** <div class="article-body"> with multiple <p> elements
- Rich HTML formatting (links, bold, italics embedded in paragraphs)

Footer Section: <footer class="particle-footer"> containing:

- **Hashtags section:** <div class="hashtags-section"> with hashtag spans
 - **Related links:** <div class="related-links"> with particle link anchors
-

Design Sketch Of The PIM Particle Editor

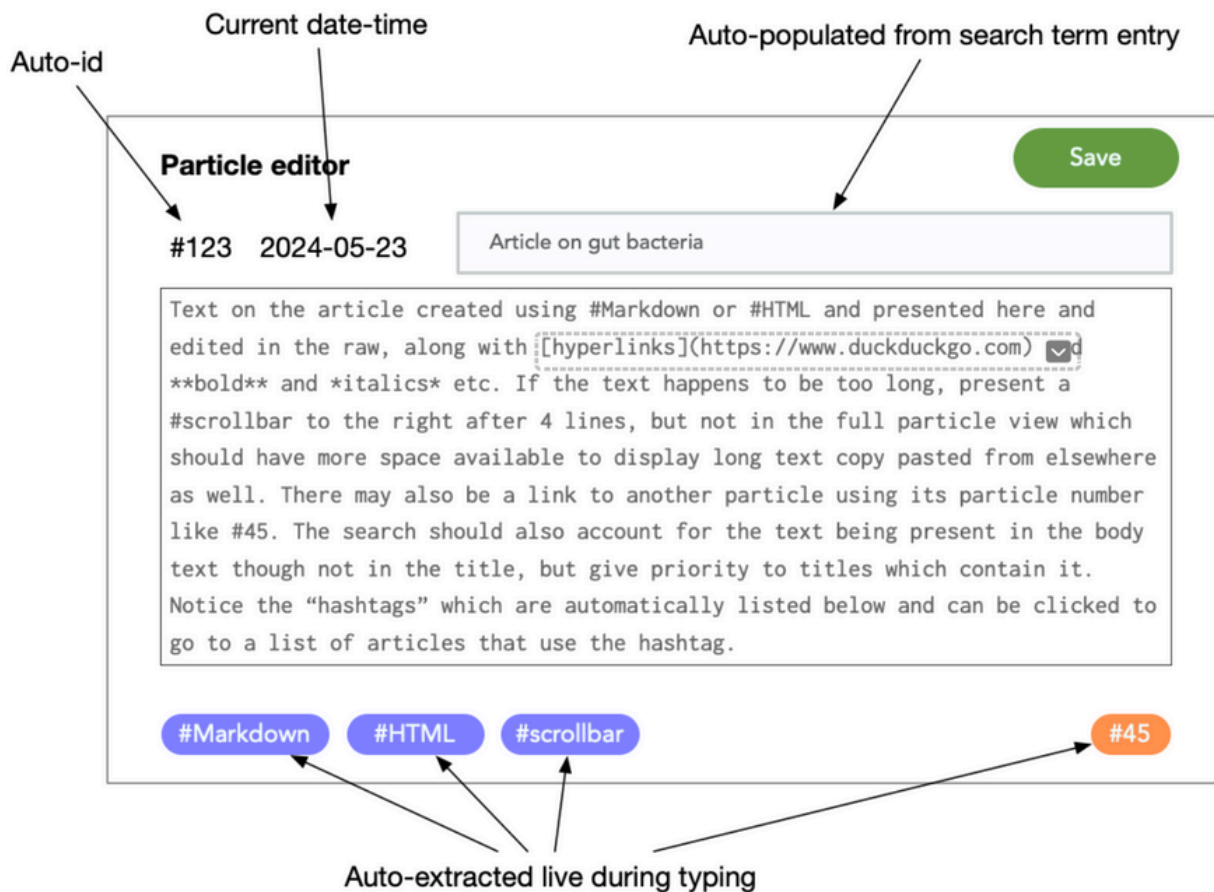


Fig. 10 PIM particle editor

Top-Level Structure

```
<main class="container particle-editor">
```

- **Role:** Main content area for the editor.
- **Function:** Holds all editor controls and fields in a centered layout.

Header Section

```
<header>
```

```
<span class="id">#123</span>
```

```
<time class="date" datetime="2024-05-23">2024-05-23</time>
```

```
</header>
```

- **Auto-ID:** Unique particle identifier (read-only, system-generated).
- **Current date-time:** Automatically filled based on creation or last edit date.

Title Field

```
<input class="title-input" type="text" value="Article on gut bacteria">
```

- **Function:** Editable title of the particle.
- **Behavior:** Auto-populated with the title from the search term or existing particle title.

Save Button

`<button class="btn btn-save">Save</button>`

- **Function:** Commits changes to the particle.
- **Placement:** Positioned next to the title for quick access.

Body Text Area

`<textarea class="body-editor">...</textarea>`

- **Function:** Markdown/HTML-supported text field for the particle body.
- **Features:**
 - Supports formatting (**bold**, *italics*, #hashtags, hyperlinks).
 - Scrollbar appears after a set number of lines.
 - Auto-detection of hashtags within the text.

Hashtag List

`<div class="tag-list">`

`#Markdown`

`#HTML`

`#scrollbar`

`#45`

`</div>`

- **Function:** Displays hashtags detected live as the user types in the body.
- **Behavior:** Tags are clickable — clicking opens a list of other particles using the same tag.
- **Color coding:** Example — special highlight for certain tags (e.g., #45 in orange).