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

Design Sketch Of The Login Page

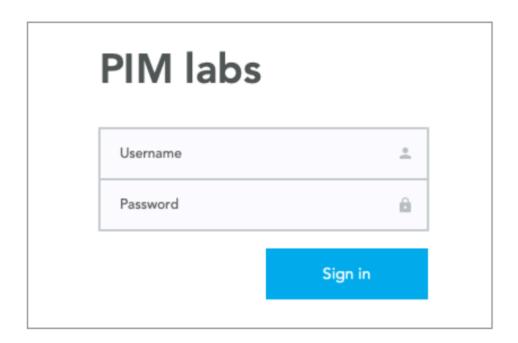


Fig. 6 PIM login view

Top-Level Structure

<main class="login-container"> — Outer container that wraps and centers all login page elements.

Logo Area

<div class="logo"> — Logo section that displays the brand identity.

- Image Logo main branding graphic.
- Optional Text Logo <h1> used if no image is available.

Title Section

<h2 class="login-title"> — Page heading that communicates the form's purpose ("Login").

Form Section

<form class="login-form"> — Login form that contains username/password inputs and actions.

Username Field

<div class="form-group">

• Label — <label for="username">Username</label> — describes the input's purpose.

• **Input** — <input type="text" id="username" name="username"> — accepts username.

Password Field

<div class="form-group">

- Label <label for="password">Password</label> describes the input's purpose.
- Input <input type="password" id="password" name="password"> hides typed characters for privacy.

Login Button

<button class="btn-login" type="submit"> — Primary action button that submits the login form.

Extra Links Section

<div class="extra-links"> — Supplementary navigation links.

- Forgot Password? link for password recovery.
- **Sign up** link to registration page.

```
<main.login-container>
  <div.logo>
      <img> (logo image)
      <h1> (text logo)
  <h2.login-title> ("Login")
  <form.login-form>
      <div.form-group>
          <label> ("Username")
          <input[type="text"]> (username input)
      <div.form-group>
          <label> ("Password")
          <input[type="password"]> (password input)
      <button.btn-login> ("Login")
      <div.extra-links>
          <a> ("Forgot Password?")
          <a>> ("Sign up")
```

Design Sketch Of The PIM Search Page

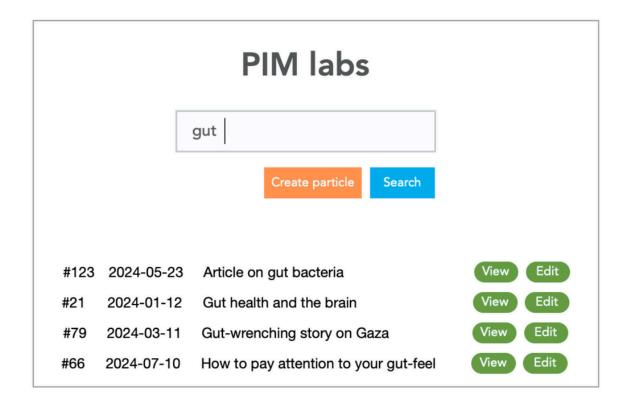


Fig. 7 PIM search page

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.
- List of search results.

Result Card

- 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>
    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

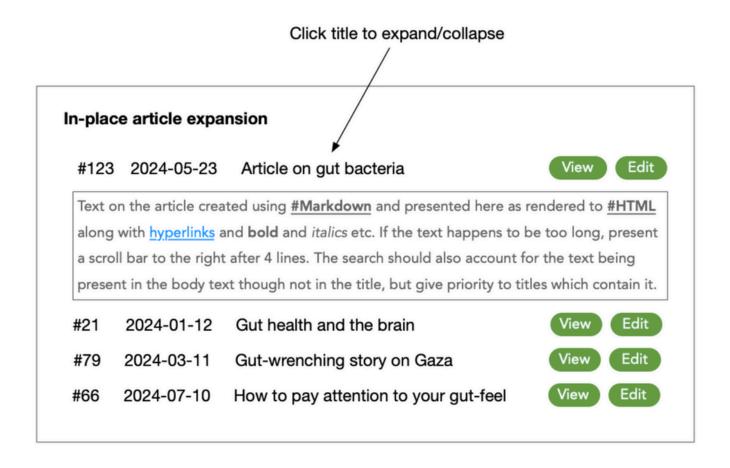


Fig. 8 PIM search results list and in-place viewer

Interaction State

- 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

- 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

```
← 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"</pre>
          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"</pre>
       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>
                                          \leftarrow Expandable content area (hidden unless .expanded is present)
```

Design Sketch Of The PIM Particle Viewer

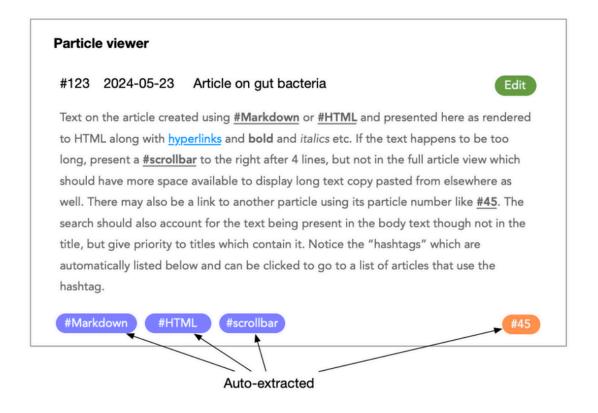


Fig. 9 PIM particle viewer

Main Container

<article class="particle-viewer"> — Semantic container for the complete particle.

Header Section

<header class="particle-header"> — Contains metadata and the title.

- Title <h1 class="particle-title"> Displays "Particle viewer".
- Metadata Group <div class="particle-metadata"> Bundles particle info:
 - Particle ID Unique identifier.
 - **Date** Publication date.
 - Article Title Headline of the particle.
 - **Edit Button** <button class="edit-btn"> Opens editing mode.

Content Section

<main class="particle-content"> — Displays the full particle content.

- **Article Body** *<div class="article-body"> Contains multiple elements.*
 - Supports **rich HTML formatting** (links, bold, italics embedded in paragraphs).

Footer Section

<footer class="particle-footer"> — Contains related information and tags.

- **Hashtags Section** *<div class="hashtags-section"> Multiple hashtag elements.*
- Related Links <div class="related-links"> Contains <a> anchors to other particles.

```
<article.particle-viewer>
  <header.particle-header>
      <h1.particle-title> ("Particle viewer")
      <div.particle-metadata>
          <span.particle-id> (particle ID)
          <span.particle-date> (publication date)
          <span.article-title> (article title)
          <button.edit-btn> ("Edit")
  <main.particle-content>
      <div.article-body>
           (paragraph text, with links/bold/italics)
           ...
  <footer.particle-footer>
      <div.hashtags-section>
          <span> (hashtag)
          <span> ...
      <div.related-links>
         <a> (related particle link)
          ⟨a⟩ ...
```

Design Sketch Of The PIM Particle Editor

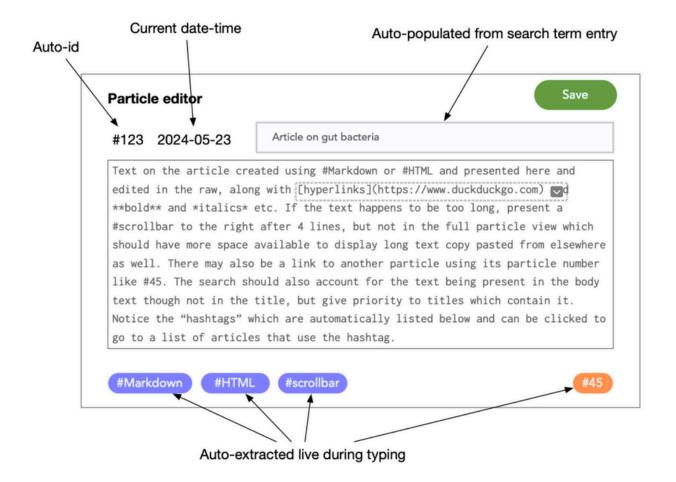


Fig. 10 PIM particle editor

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>

#123

<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:
 - O Supports formatting (**bold**, *italics*, #hashtags, hyperlinks).
 - O Scrollbar appears after a set number of lines.
 - o Auto-detection of hashtags within the text.

Hashtag List

```
<div class="tag-list">
 <span class="tag">#Markdown</span>
 <span class="tag">#HTML</span>
 <span class="tag">#scrollbar</span>
 <span class="tag">#scrollbar</span>
```

</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).