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Type-safe routing & navigation

Emmanuel Krebs – Sr Software Engineer

Enter a query

Search by algolia

“Algolia provides a set of hosted APIs to empower developers to build **search** and **recommendations** into their web and mobile apps.” → algolia.dev

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Algolia Dashboard

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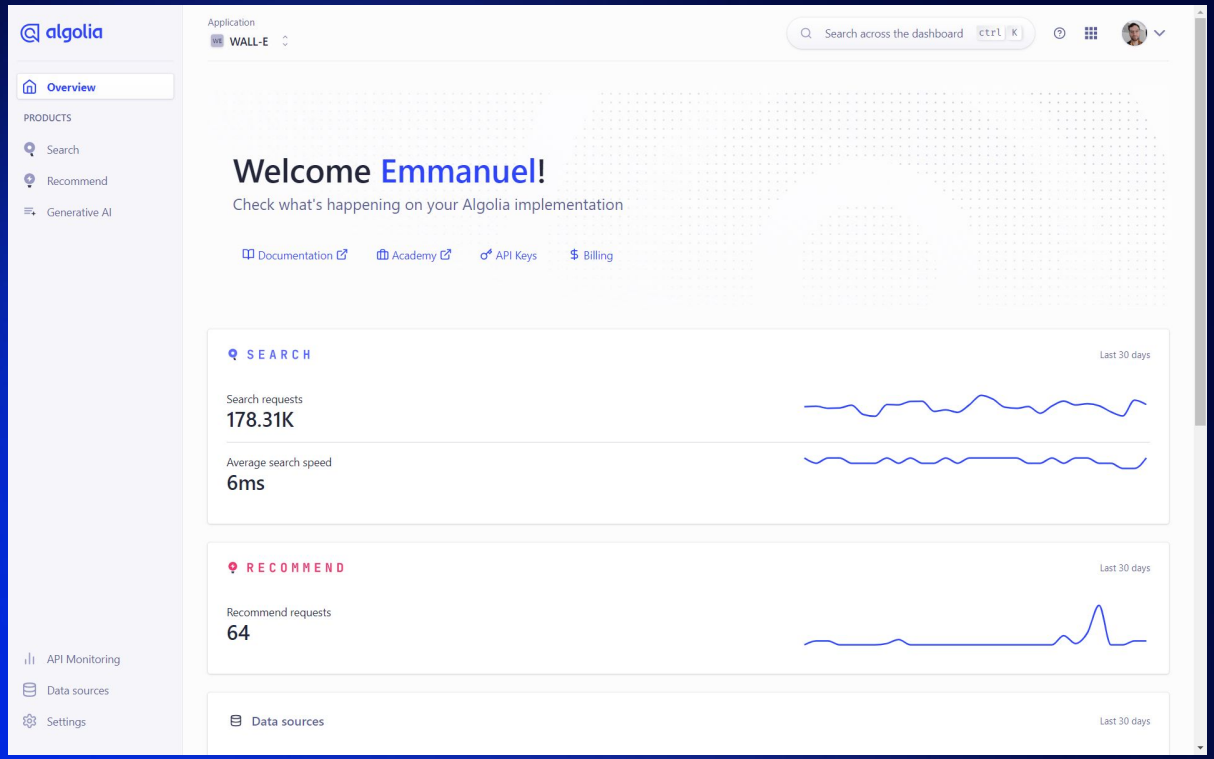

Manage your Algolia Applications

- ➔ For developers
- ➔ Configuration of your indices
- ➔ Test search on your indices
- ➔ etc.

Algolia Merchandising Studio

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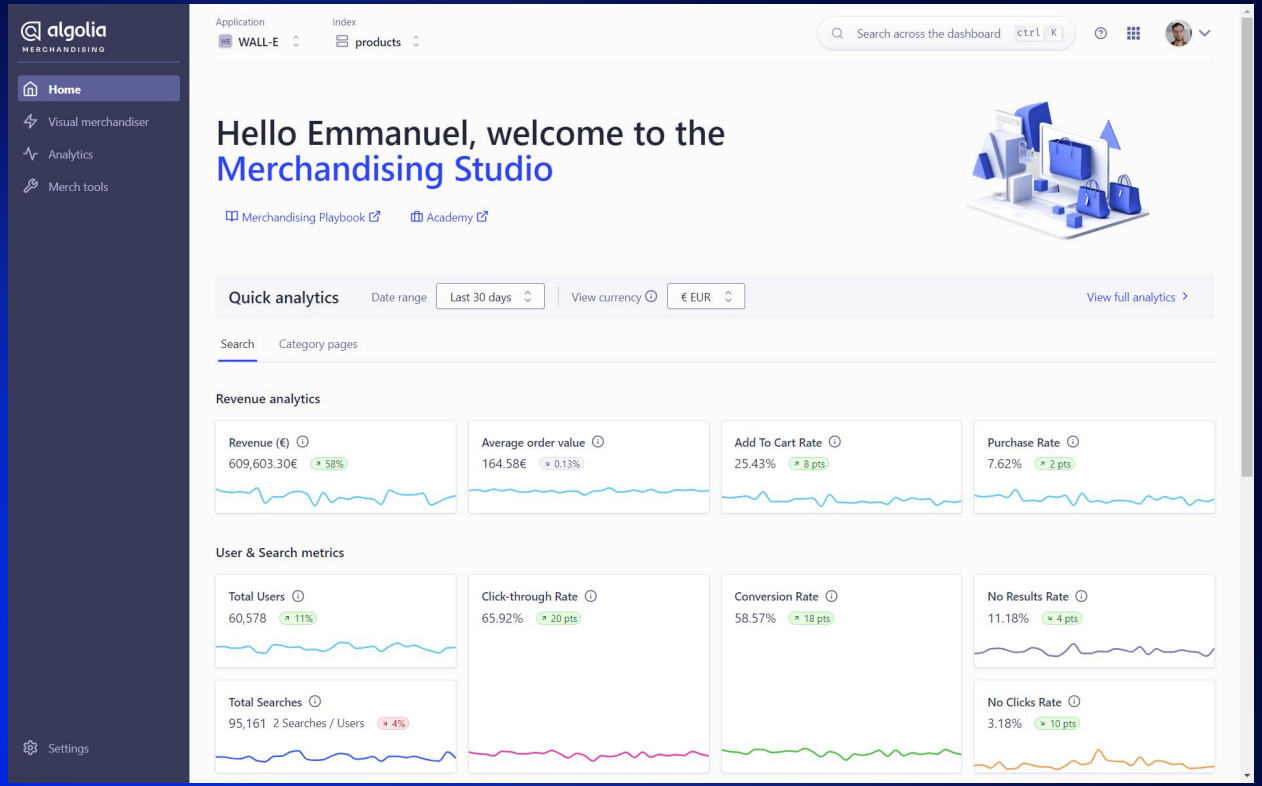
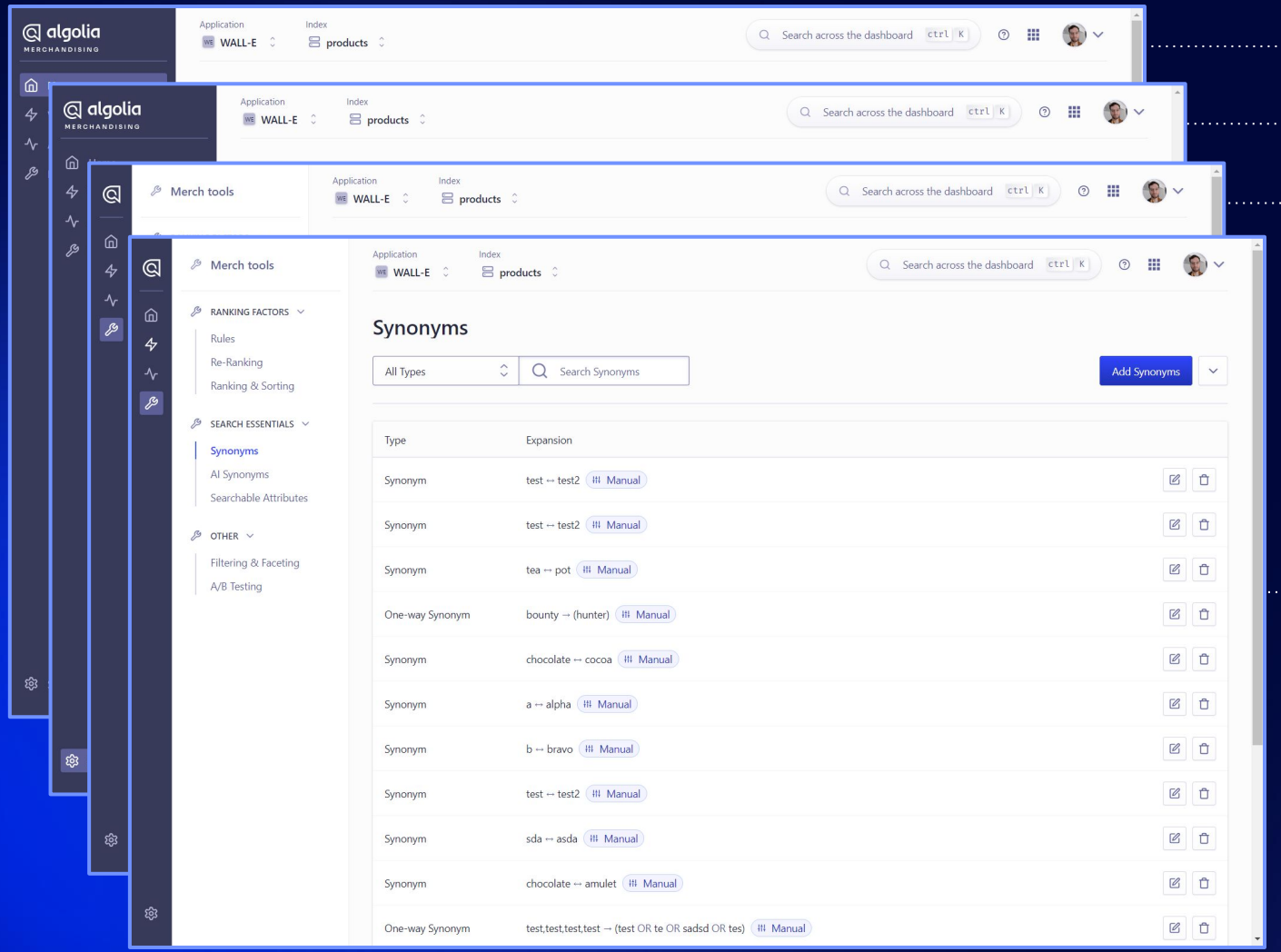


Manage your Algolia Applications

- ➔ For Merchandisers
- ➔ Less technical
- ➔ Curate specific queries
- ➔ Dedicated features
- ➔ etc.

NEW (2023)



/home

/settings

/tools/rules

/tools/synonyms

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How is it build?

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`react-router-dom`

react-router-dom

- define **routes**: `/tools`, `/settings`, ...
- associate **Component** to each

- feed them to the **router**
- use provided components

  (`NavLink`), hooks, etc.

```
const routes: RouteObject[] = [
  {
    element: <Layout />,
    children: [
      { path: "/", element: <Home /> },
      {
        path: "tools",
        children: [
          { path: "rules", element: <Rules /> },
          { path: "synonyms", element: <Synonyms /> },
          { index: true, element: <Tools /> },
        ],
      },
      { path: "settings", element: <Settings /> },
      { path: "*", element: <NotFound /> },
    ],
  },
];
```

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Our problem

- make a *typo* in a url
- ship it to production

aloglia.com

Our solution

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type safety!

detect the error while writing code + CI

live-coding

Summary

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- define paths once → **JSON**
- create type with Typescript 🪄 → `Path`
- create a util to transform `Path` → `string`
- reuse that `Path` typing for
  - **routes** feeded to the router
  - **navigation** links
  - other **links**

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Thank you! 🙏

github.com/e-krebs/paris-typescript-38

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