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faster\_react

Important

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Introduction

faster\_react is a tiny Full-Stack React framework. He avoids Overengineering. This framework uses its own RSC engine, combining SSR and CSR, and automatically generates routes for React components. To utilize this, you must use the routes helper provided by the framework (React Router). The framework's configuration file is located at options.json.

What Does faster\_react Do for You?

Focus solely on development! This framework handles:

- Automatic route generation for React components.
- Automatic inclusion of new React components when framework => "dev": true.
- Automatic frontend bundling when framework => "dev": true.

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https://kkgithub.com/hviana/faster\_react

1/9

- Automatic browser reload when `framework => "dev": true`.
- Automatic frontend minification when `framework => "dev": false`.
- Automatic backend reload when changes are detected and `framework => "dev": true`.
- Automatic detection of Deno Deploy environment. Test in other serverless environments

**Note:** The project includes a simple application example demonstrating each functionality. The optional. You can use whatever CSS framework you want.

### About Faster

This framework uses a middleware library called Faster. Faster is an optimized middleware server built on top of native HTTP APIs with no dependencies. It includes a collection of useful middleware

- Log file
- Serve static
- CORS
- Session
- Rate limit
- Token
- Body parsers
- Redirect
- Proxy
- Handle upload

Fully compatible with Deno Deploy and other enviroments. Examples of all resources are available in the [README](#). Faster's ideology is simple: all you need is an optimized middleware manager; all other functionality is middleware.

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### Benchmarks

`faster_react` has only 0.9% of the code quantity of Deno Fresh.

**Benchmark Command:**

```
# Deno Fresh
git clone https://kkgithub.com/denoland/fresh.git
cd fresh
```

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```
git ls-files | xargs wc -l
# Output: 104132 (version 1.7.3)

# faster_react
git clone https://kkgithub.com/hviana/faster_react.git
cd faster_react
git ls-files | xargs wc -l
# Output: 1037 (version 20.1)
```

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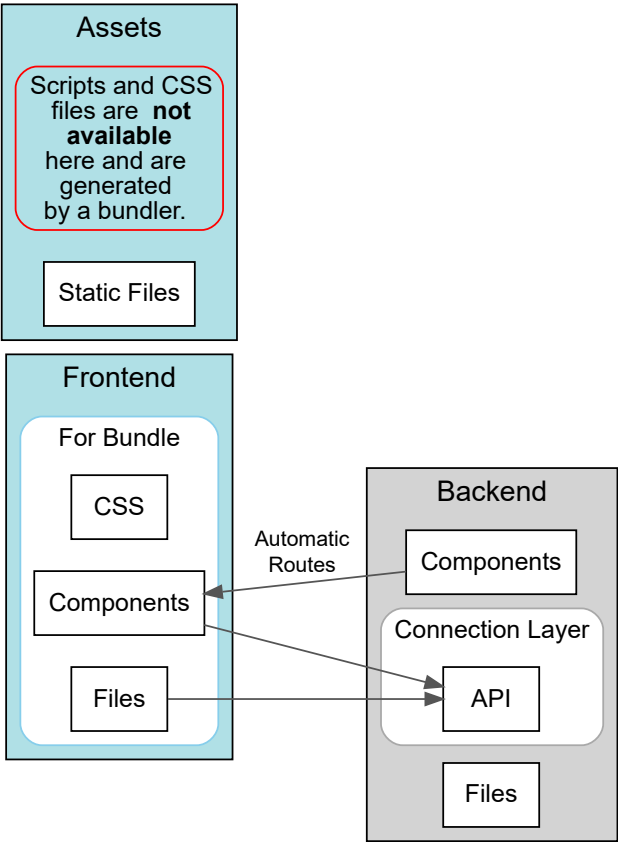
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## 🏗 Architecture

This framework utilizes **Headless Architecture** [\[1\]](#) to build the application, combined with the **Middleware Design Pattern** for defining API routes in the backend.

**Headless Architecture** provides complete freedom to the developer, reducing the learning curve. Despite this freedom, there is an **explicit separation between backend and frontend**, which aids in development.

The **Middleware Design Pattern** offers a practical and straightforward method for defining API routes.



## 📁 App Structure

All application folders are inside the `app` folder.

### 📦 Get Deno Kv and Deno Kv Fs

On the backend, if a **Deno KV** instance is available, access instances via `Server.kv` and `Server.kvFs` :

```
import { Server } from "faster";
```

See **Deno KV** settings in `options.json` .

**Deno KV File System ( `Server.kvFs` )**: Compatible with Deno Deploy. Saves files in 64KB chunks. Organize files into directories, control the KB/s rate for saving and reading files, impose rate limits, set user space limits, and limit concurrent operations—useful for controlling uploads/downloads. Utilizes the Web Streams API.

More details: [deno\\_kv\\_fs](#)

## Backend API

- Imports:** Import your backend libraries here.
- Organization:** Files can be organized into subdirectories.
- File Extension:** Use `.ts` files.
- Structure:** Flexible file and folder structure that doesn't influence anything.
- Routing:** Define routes using any pattern you prefer.
- Exports:** Must have a `default export` with a function (can be asynchronous).
- Function Input:** Receives an instance of `Server` from `faster`.
- Usage:** Perform backend manipulations here (e.g., fetching data from a database), including a
- Routes:** Define your custom API routes. For help, see: [faster](#)

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## Backend Components

- Optionality:** A backend component is optional for a frontend component.
- Imports:** Import your backend libraries here.
- Organization:** Organize files into subdirectories.
- File Extension:** Use `.ts` files.
- Correspondence:** Each file should have the same folder structure and name as the corresponding frontend component but with a `.ts` extension.
  - Example:**
    - Frontend: `frontend/components/checkout/cart.tsx`
    - Backend: `backend/components/checkout/cart.ts`
- Exports:** Must have a `default export` with an object of type `BackendComponent` :

```
import { type BackendComponent } from "@helpers/backend/types.ts";
```

- Usage:** Intercept a frontend component request:
  - Before Processing ( `before?: RouteFn[]` ):** List of middleware functions (see: [faster](#)). Use to check headers ( `ctx.req.headers` ) or search params ( `ctx.url.searchParams` ), like tokens, impose rate limits etc.
    - Note:** To cancel page processing, do not call `await next()` at the end of a middleware function.

- After Processing ( `after?: (props: JSONObject) => void | Promise<void>` ):** Function receives the `props` that will be passed to the component. Add backend data to these `props`, such as data from a database. Can be asynchronous.
  - Note:** Only use props data in JSON-like representation, or hydration will fail.

## Backend Files

- Imports:** Import your backend libraries here.
- Organization:** Organize files into subdirectories.
- File Extension:** Use `.ts` files.
- Usage:** Free to make exports or calls (including asynchronous).
- Purpose:** Group common functions/objects for `backend/api`, `backend/components`, and other `backend/files`, such as user validations.

## Frontend Components

- Imports:** Use only frontend libraries.
- Organization:** Organize files into subdirectories.
- File Extension:** Use `.tsx` files.
- Rendering:** Rendered on the server and hydrated on the client.

**Routes Generated:** Two routes per file (e.g., `frontend/components/checkout/cart.tsx`):

**Page Route:** For rendering as a page, e.g., `/pages/checkout/cart`.

**Component Route:** For rendering as a component, e.g., `/components/checkout/cart`.

**Initial Route ( / ): Points to** `frontend/components/index.tsx`.

**Exports:** Must have a `default export` with the React Function/Component.

**Props Passed to Component:**

Form-submitted data (or JSON POST).

URL search parameters (e.g., `/pages/myPage?a=1&b=2` results in `{a:1, b:2}`).

Manipulations from `backend/components`.

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## 🎨 Frontend CSS

Application CSS style files.

**Multiple Files:** Automatically compiled.

**Organization:** Organize files into subdirectories.

## 📄 Frontend Files

**Imports:** Use only frontend libraries.

**Organization:** Organize files into subdirectories.

**File Extensions:** Use `.ts` and `.js` files.

**Usage:** Free to make exports or calls (including asynchronous).

**Difference from Components:** Scripts are not automatically delivered to the client. They need to be imported by the `frontend/components`.

**Purpose:** Group common functions/objects for React Functions/Components, like form field validations. Can have `frontend/files` common to other `frontend/files`.

## 🌐 Frontend Translations

**File Extensions:** Use `.json` files.

**Correspondence:** Each file should have the same folder structure and name as the corresponding frontend component but with a `.json` extension.

**Example:**

Frontend: `frontend/components/checkout/cart.tsx`

Backend: `frontend/translations/checkout/cart.json`

**Usage:**

In `frontend/components/index.tsx`:

```
import {
  detectedLang,
  useTranslation,
} from "@helpers/frontend/translations.ts";
const Home = () => {
  const t = useTranslation();
  //Any .init parameter of i18next (minus ns) is valid in useTranslation.
  //Ex: useTranslation({ lng: ["es"], fallbackLng: "en" }) etc.
  //On the client side, the language is automatically detected (if you don't specify).
  //On the server, the language is "en" (if you don't specify).
  //The "en" is also the default fallbackLng.
  return (
    <div className="app-name">
      {t("index.appName", { endExample: "!" })}
    </div>
  );
};
export default Home;
```

In `frontend/translations/en/index.json`:

```
{
  "appName": "My SaaS App {{endExample}}"
}
```

The framework translation is just a wrapper over i18next. See the i18next documentation if you have any questions.

## Static

Files served statically. Routes are generated based on the folder and file structure.

**Example:** `localhost:8080/static/favicon.ico` matches `static/favicon.ico`.

## React Router

Since the framework has its own routing system, a third-party routing library is unnecessary. Use the framework helper:

**Note:** Direct form submissions for page routes path also work.

```
import { getJSON, route } from "@helpers/frontend/route.ts";
```

### Interface Parameters:

```
interface Route {
  headers?: Record<string, string>; // When routing to a page, headers are encoded in the URL. Intercept them in ctx.url.searchParams
  content?:
    | Record<any, any>
    | (() => Record<any, any> | Promise<Record<any, any>>);
  path: string;
  startLoad?: () => void | Promise<void>;
  endLoad?: () => void | Promise<void>;
  onError?: (e: Error) => void | Promise<void>;
  disableSSR?: boolean; //For component routes. Disables SSR; defaults to false.
  elSelector?: string; // Required for component routes.
  method?: string; // Only for API routes. Optional; defaults to GET or POST.
}
```

## Examples

### Navigating to a Page with Search Params:

```
// URL search params passed as properties to the page. Props receive `{a:1}`
<button onClick={route({ path: "/pages/test?a=1" })}>
  Go to Test Page
</button>
```

### Passing Additional Parameters:

```
// Props receive `{a:1, example:"exampleStr"}`
<button
  onClick={route({
    path: "/pages/test?a=1",
    content: { example: "exampleStr" },
  })}
>
  Go to Test Page with Extra Data
</button>
```

### Using Asynchronous Content:

```
// Props receive `{a:1, ...JSONResponse}`
<button
  onClick={route({
    path: "/pages/test?a=1",
    content: async () => {
      return await getJSON({
```

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```

    path: "/example/json",
    content: {
      test: "testData",
    },
  });
  });
  })}
>
  Go to Test Page with Async Data
</button>;

```

### Programmatic Routing:

```

(async () => {
  if (user.loggedIn) {
    await route({
      path: "/pages/dash",
      content: { userId: user.id, token: token },
    })();
  } else {
    await route({ path: "/pages/users/login" })();
  }
})();

```

### Loading a Component:

```

<button
  onClick={route({
    path: "/components/parts/counter",
    elSelector: "#counter",
  })}
>
  Load Counter Component
</button>;

```

### Making an API Call:

```

<button
  onClick={async () => {
    const res = await getJSON({
      path: "/example/json",
      content: {
        test: "testData",
      },
    });
    console.log(res);
    alert(JSON.stringify(res));
  }}
>
  Fetch JSON Data
</button>;

```

In the case of page routes, you can use this example to pass the URL parameters for the headers in the backend (if you really need it):

```

const signupBackendComponent: BackendComponent = {
  before: [
    async (ctx: Context, next: NextFunc) => {
      ctx.req = new Request(ctx.req, {
        headers: {
          ...Object.fromEntries(ctx.req.headers as any),
          "Authorization": `Bearer token ${ctx.url.searchParams.get("token")}`,
        },
      });
      await next();
    },
  ],
};
export default signupBackendComponent;

```

Forms submit for page routes work. For components, you can use the following:

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```
<form
  method="POST"
  action=""
  encType="multipart/form-data"
  onSubmit={async (event) => {
    event.preventDefault();
    const data: any = new FormData(event.target as any);
    const formObject = Object.fromEntries(data.entries());
    await route({
      startLoad: () => setLoading(true), //useState
      endLoad: () => setLoading(false),
      path: "/components/register",
      elSelector: "#dash-content",
      content: formObject,
    })();
  }}
>
```

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## Packages Included

Several packages are included to assist in developing React applications. Here are some examples of imports you can use without additional configuration:

```
import { /* your imports */ } from "react";
import { /* your imports */ } from "react/";
import { /* your imports */ } from "i18next";
import { /* your imports */ } from "react-dom";
import { /* your imports */ } from "react-dom/server";
import { /* your imports */ } from "react-dom/client";
import { /* your imports */ } from "react/jsx-runtime";
s;
import { /* your imports */ } from "@helpers/frontend/route.ts";
import { /* your imports */ } from "@helpers/frontend/translations.ts";
import { /* your imports */ } from "@helpers/backend/types.ts";
import { /* your imports */ } from "faster";
import { /* your imports */ } from "deno_kv_fs";
import { /* your imports */ } from "jose"; //manage tokens
import { options, server } from "@core"; // Useful for accessing the server instance.
```

## Creating a Project

You can simply download this repository. Alternatively, use the command (requires `git` installed and configured):

```
deno run -A -r "https://deno.land/x/faster_react_core/new.ts" myProjectFolder
```

Customize and configure the server in `options.json`.

## Running a Project

Execute the command:

Development:

```
deno task serve
```

Production:

```
deno serve main.ts #Add your permissions, port, certificate etc. see: https://docs.deno.com/runtime/reference/cli/serve
```





```
deno install -A --global jsr:@deno/deployctl
```

```
deployctl deploy
```

**Note:** For production, set `framework => "dev": false` in `options.json`.



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- [1] Dragana Markovic, Milic Scekic, Alessio Bucaioni, and Antonio Cicchetti. 2022. *Could Jamstack Be the Future of Web Applications Architecture? An Empirical Study*. In *Proceedings of the 37th ACM/SIGAPP Symposium on Applied Computing (SAC '22)*. Association for Computing Machinery, New York, NY, USA, 1872–1881. DOI: [10.1145/3477314.3506991](https://doi.org/10.1145/3477314.3506991)
- [2] Brown, Ethan. *Web Development with Node and Express: Leveraging the JavaScript Stack*. O'Reilly Media, 2019. URL: <http://www.oreilly.com/catalog/9781492053484>



## 1



No packages published

- TypeScript 99.7%
- CSS 0.3%