let's REACT

TheLeanProgrammer.com

DOWNLOAD THE SLIDES

http://theleanprogrammer.com/aam/5

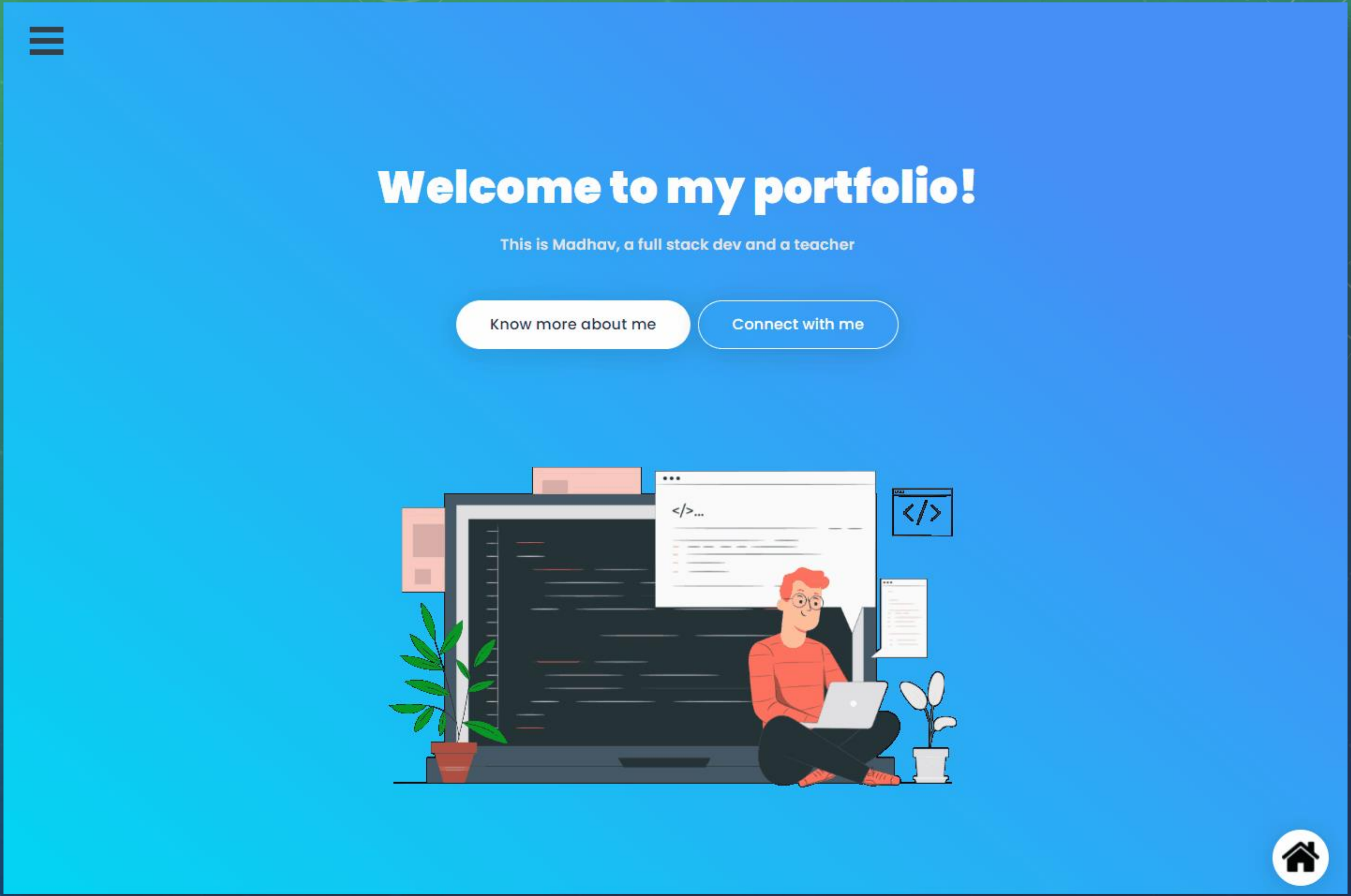
WHAT ARE WE GOING TO LEARN TODAY?

React Router

React Portals

LET’S SEE A LIVE DEMO

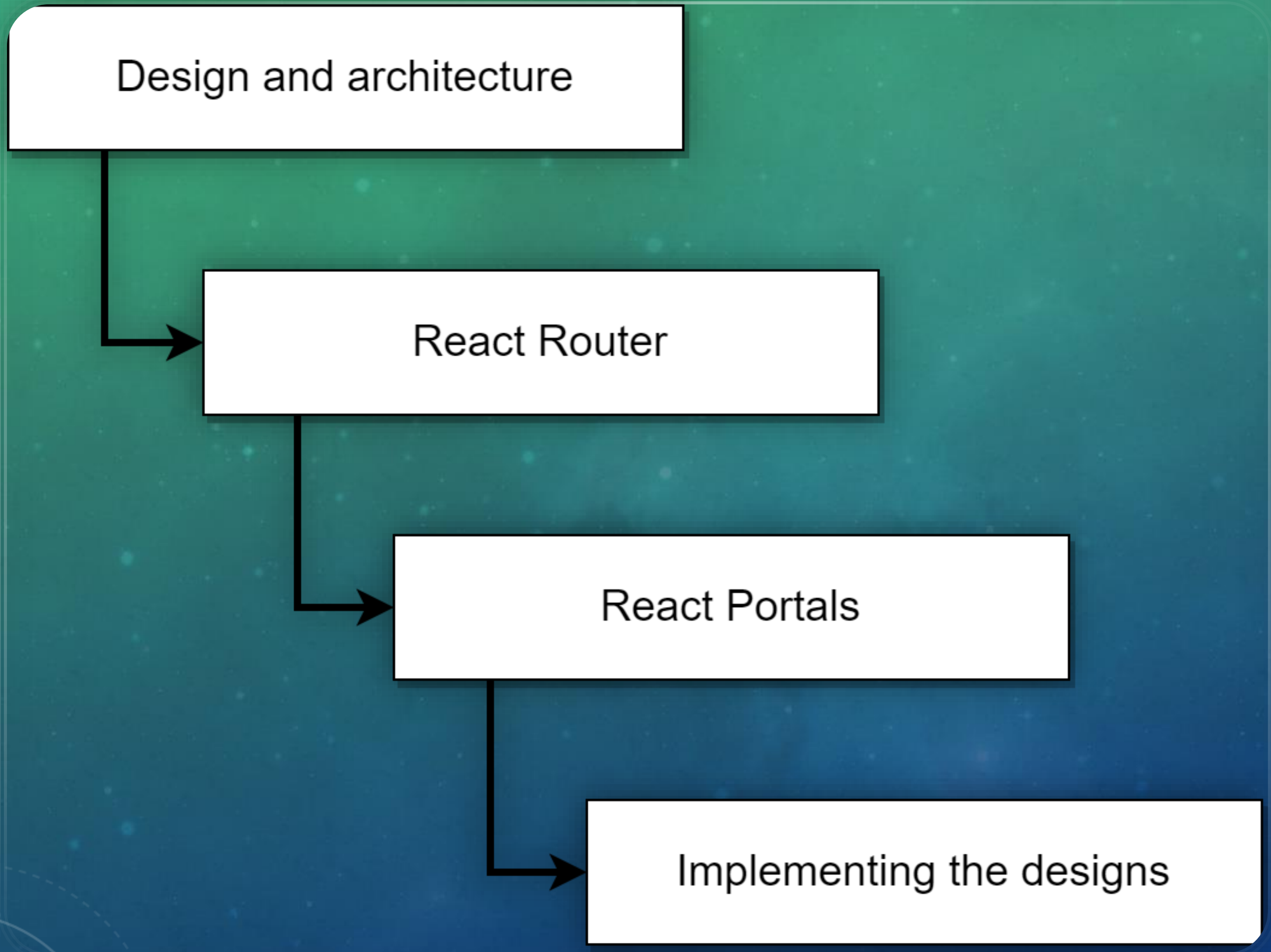
http://madhavbahl.tech/portfolio/



Welcome to my portfolio!

This is Madhav, a full stack dev and a teacher

OUR FLOW FOR TODAY



Design and architecture

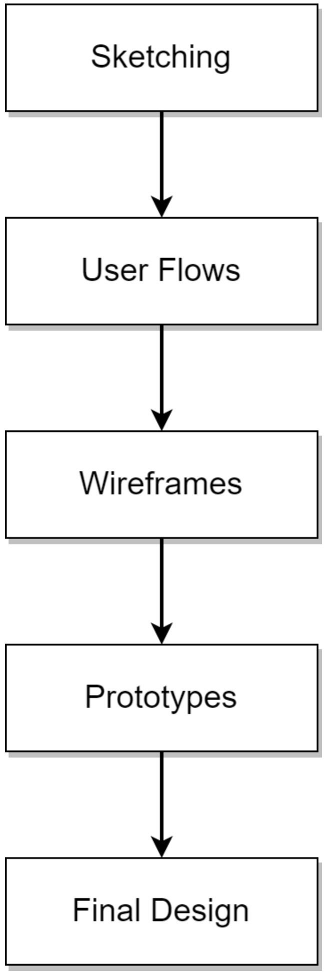
React Router

React Portals

Implementing the designs

SECTION 1: UNDERSTANDING THE WIREFRAMES AND ARCHITECTURE

VARIOUS PHASES IN DESIGN



Sketching

User Flows

Wireframes

Prototypes

Final Design

LIST OF PAGES

Home page

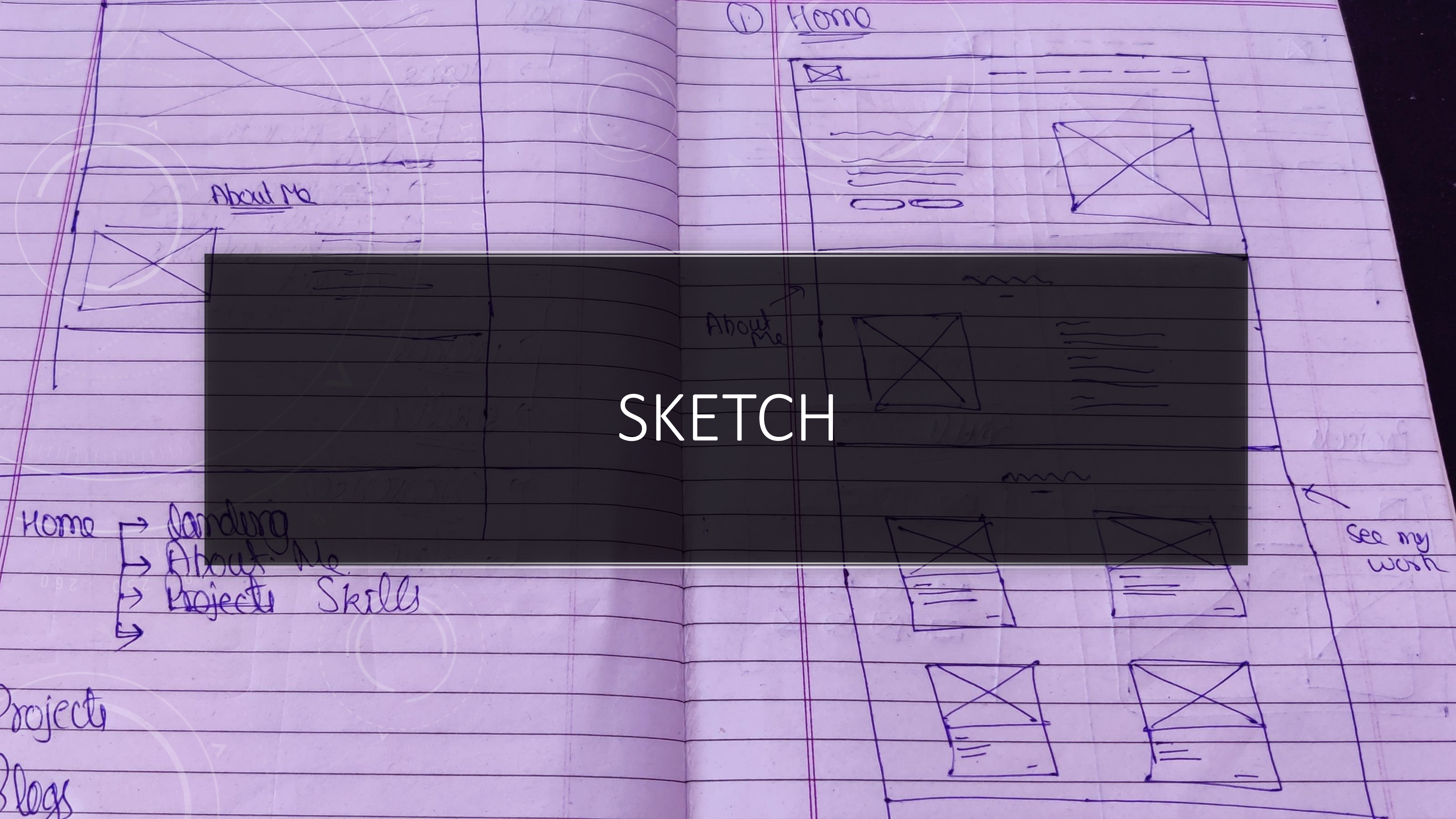
About page

Projects page

Skills page

Contact me page

SKETCH


① Home
About Me
About Me
See my work
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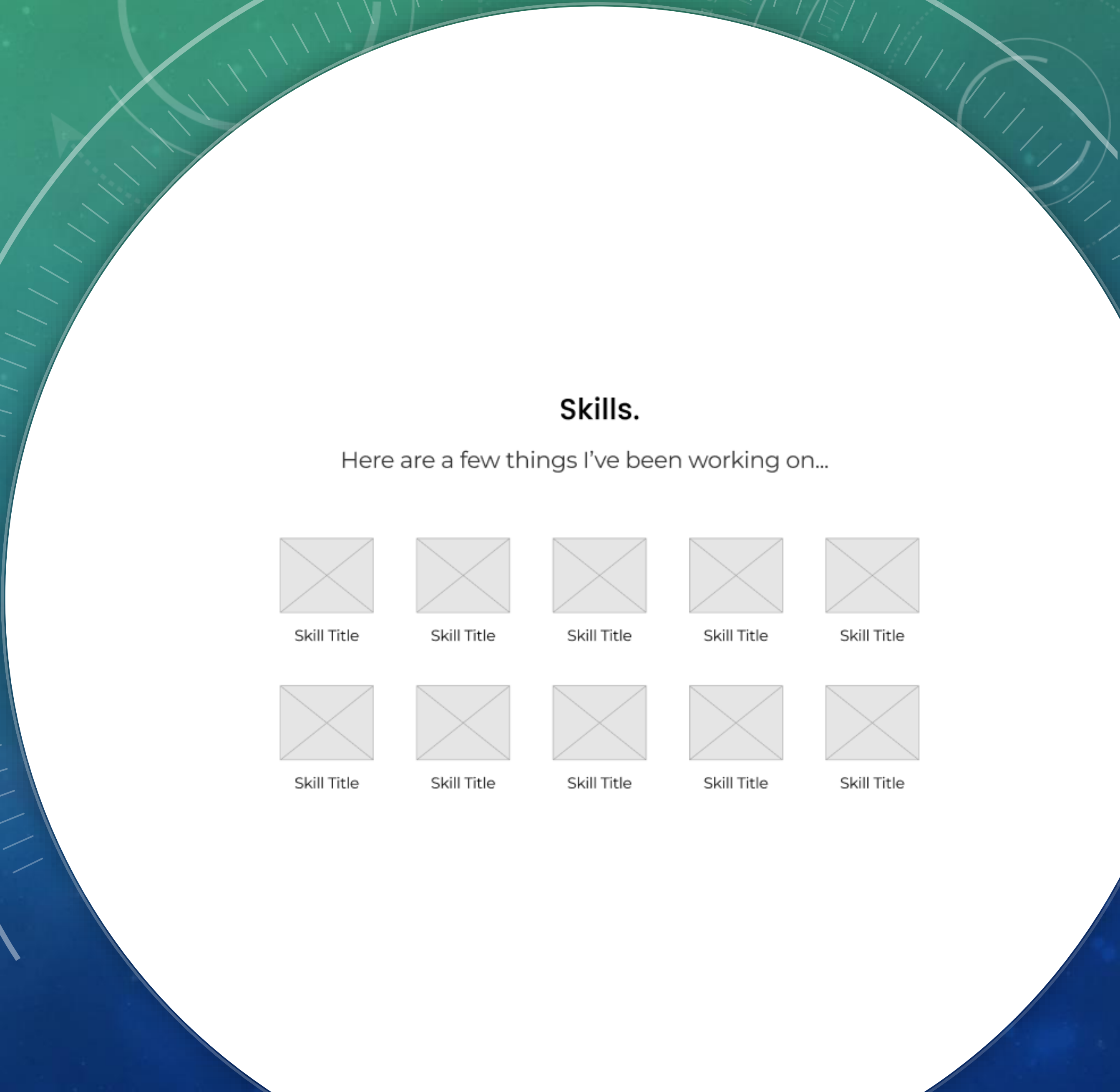
About Me
Projects
Skills
Projects
Blogs

UNDERSTANDING THE WIREFRAMES



Skills.

Here are a few things I've been working on...

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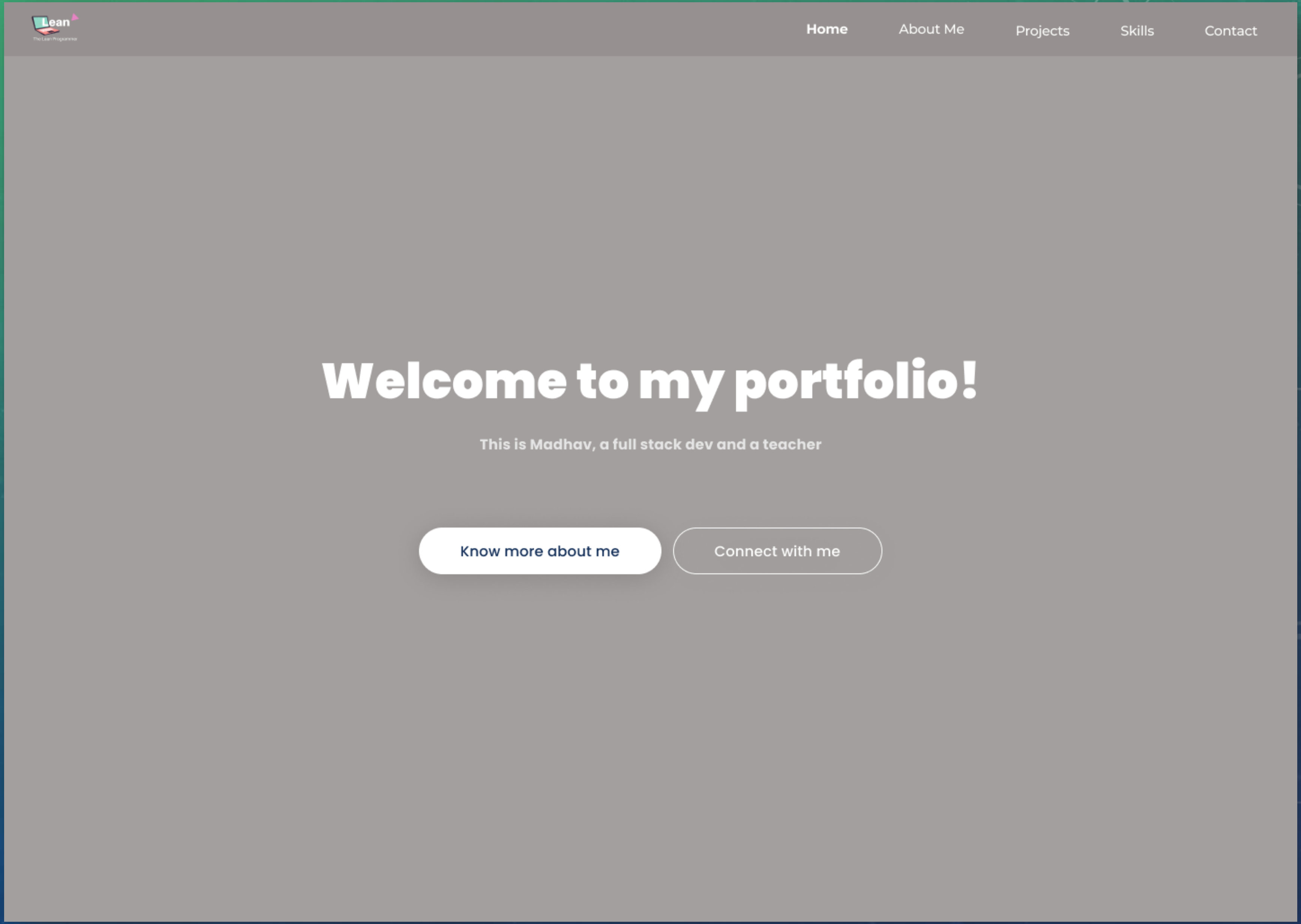
Skill Title	Skill Title	Skill Title	Skill Title	Skill Title

HOME



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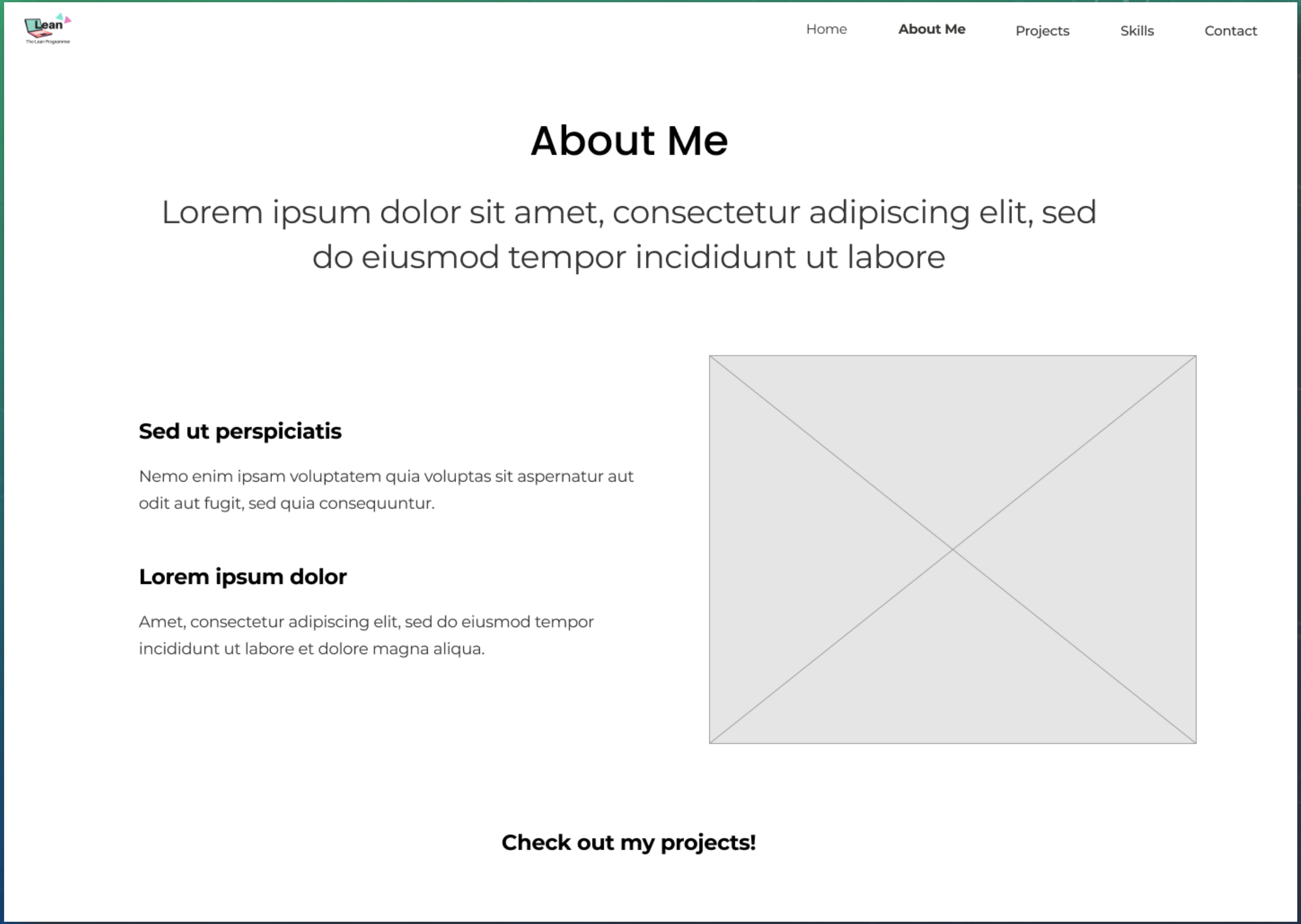
ABOUT



About Me

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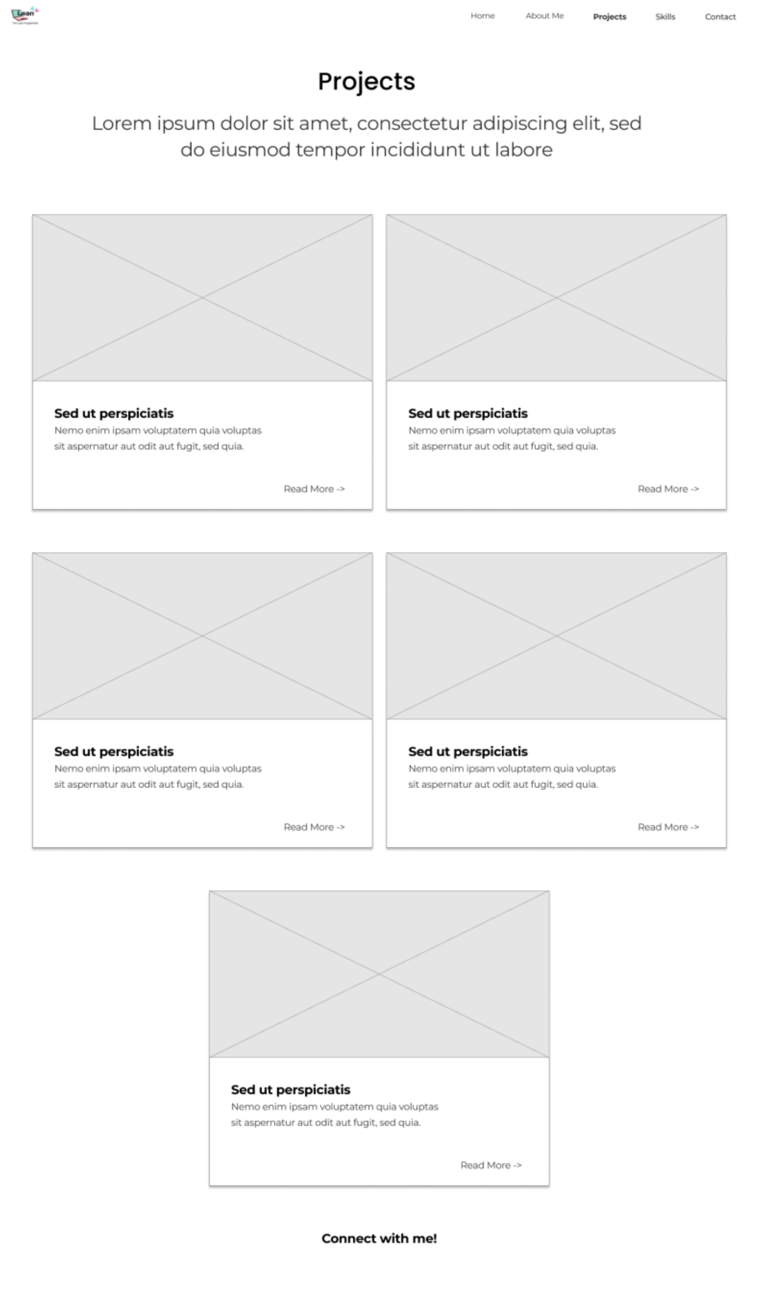
Check out my projects!

PROJECTS



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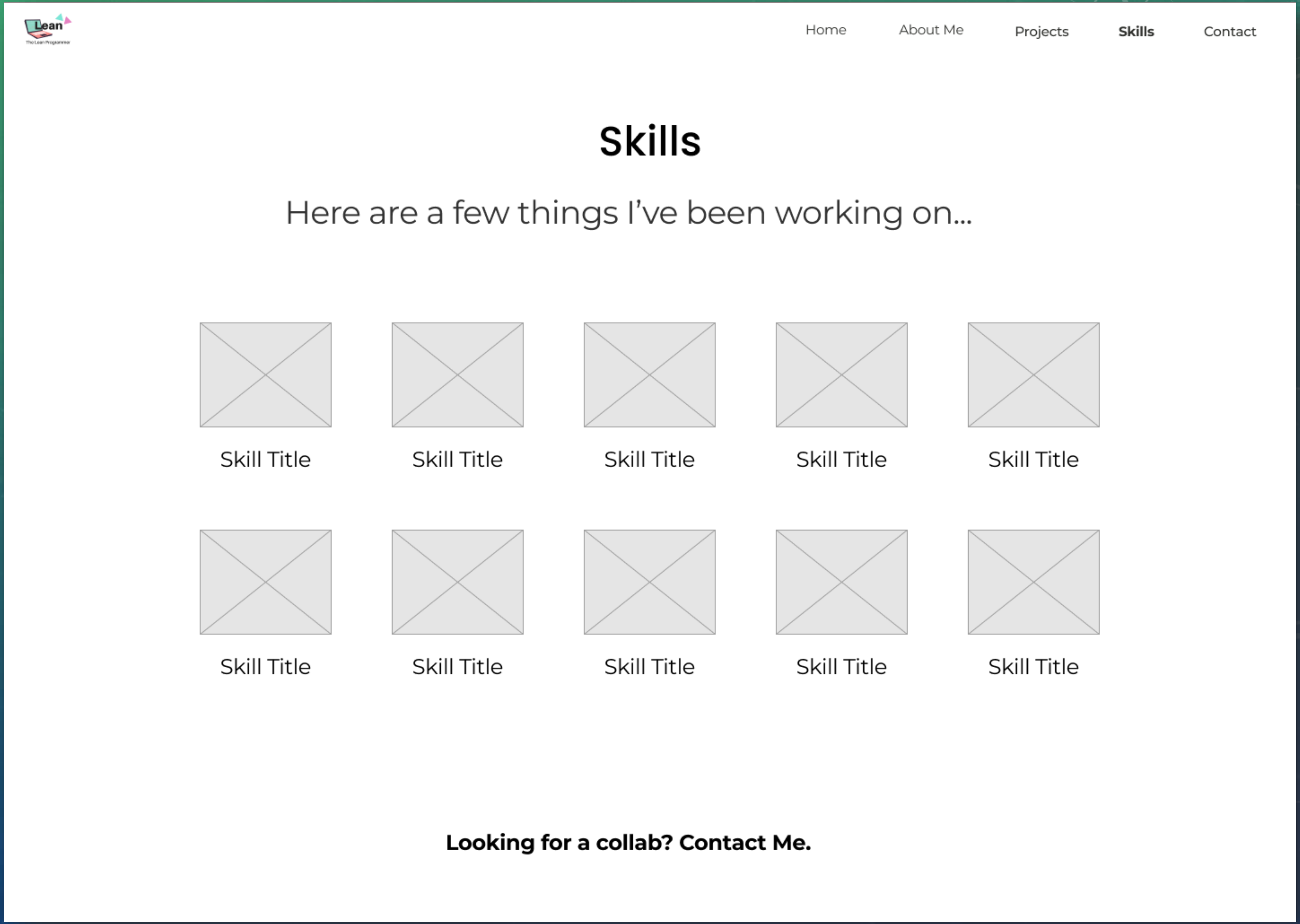
Connect with me!

SKILLS



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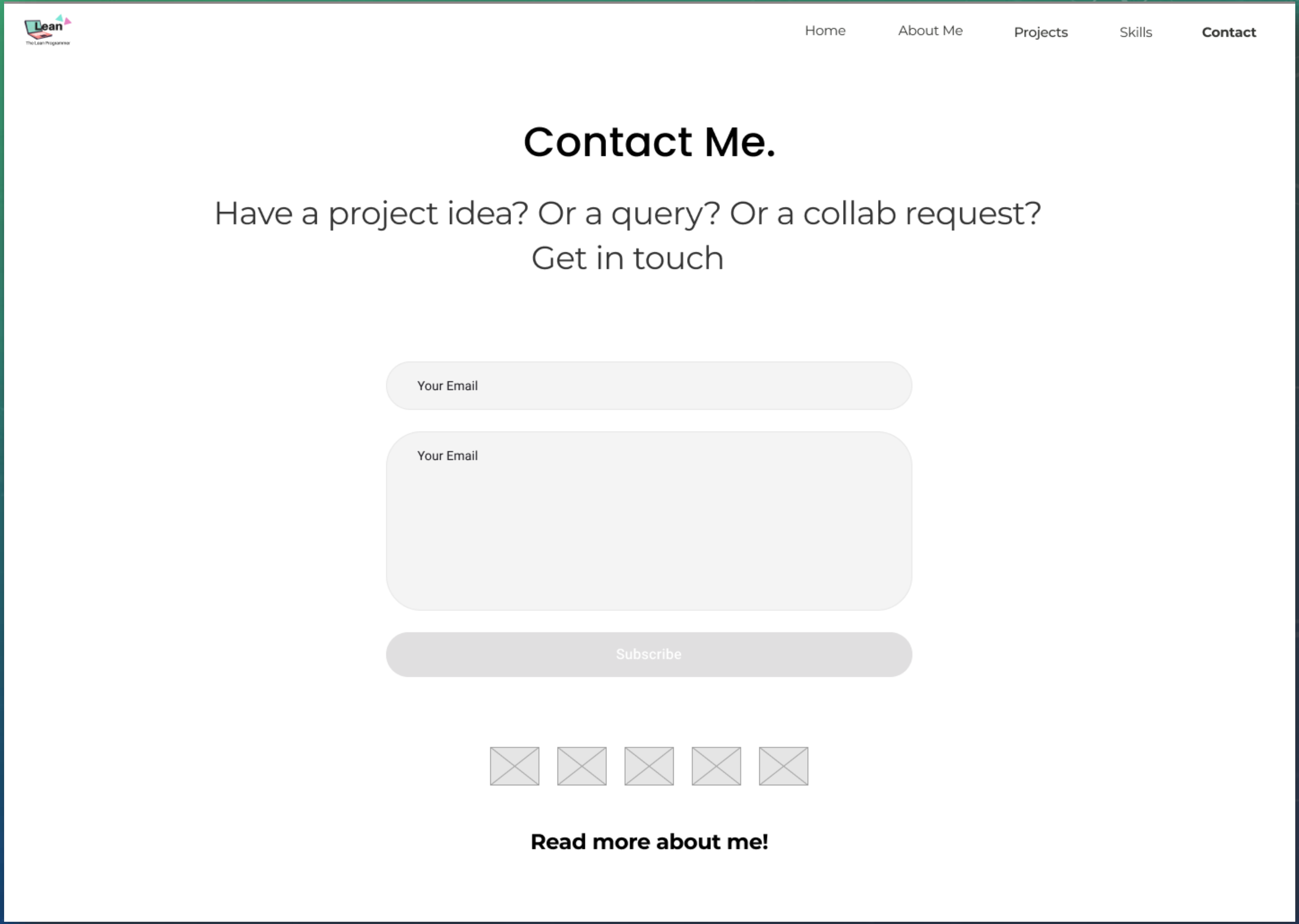
Looking for a collab? Contact Me.

CONTACT



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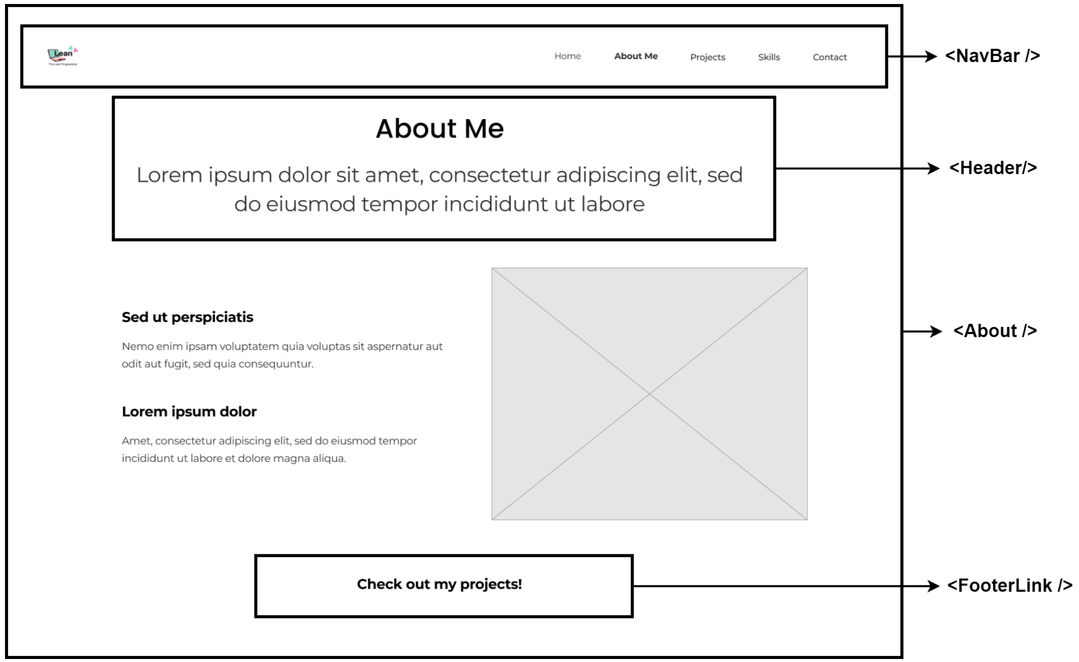
Have a project idea? Or a query? Or a collab request?
Get in touch

Read more about me!

LET’S FINALIZE THE REACT COMPONENTS!



Home About Me Projects Skills Contact

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About Me

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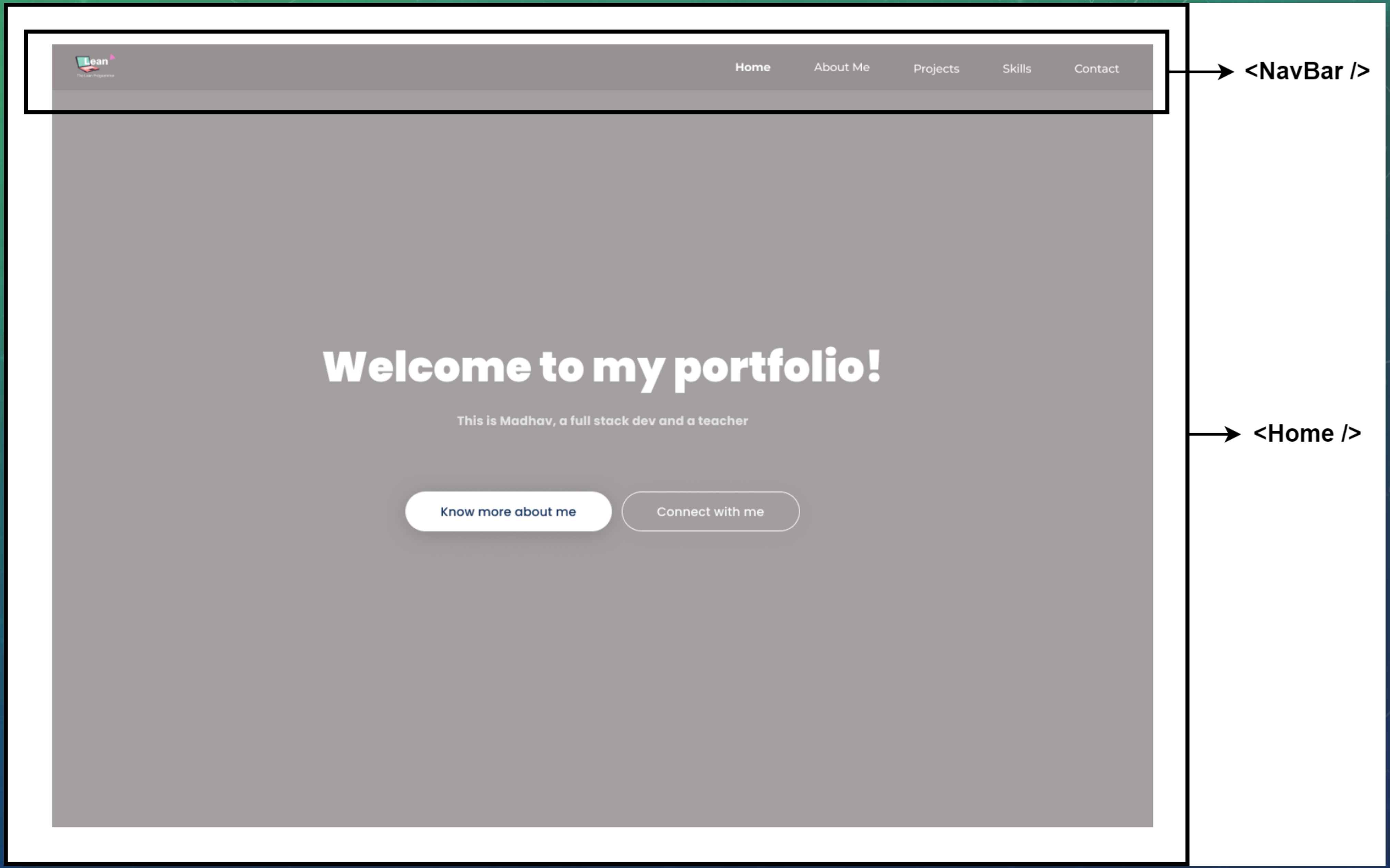
<About />

Check out my projects!

<FooterLink />

HOME



Home About Me Projects Skills Contact

<NavBar />

Welcome to my portfolio!

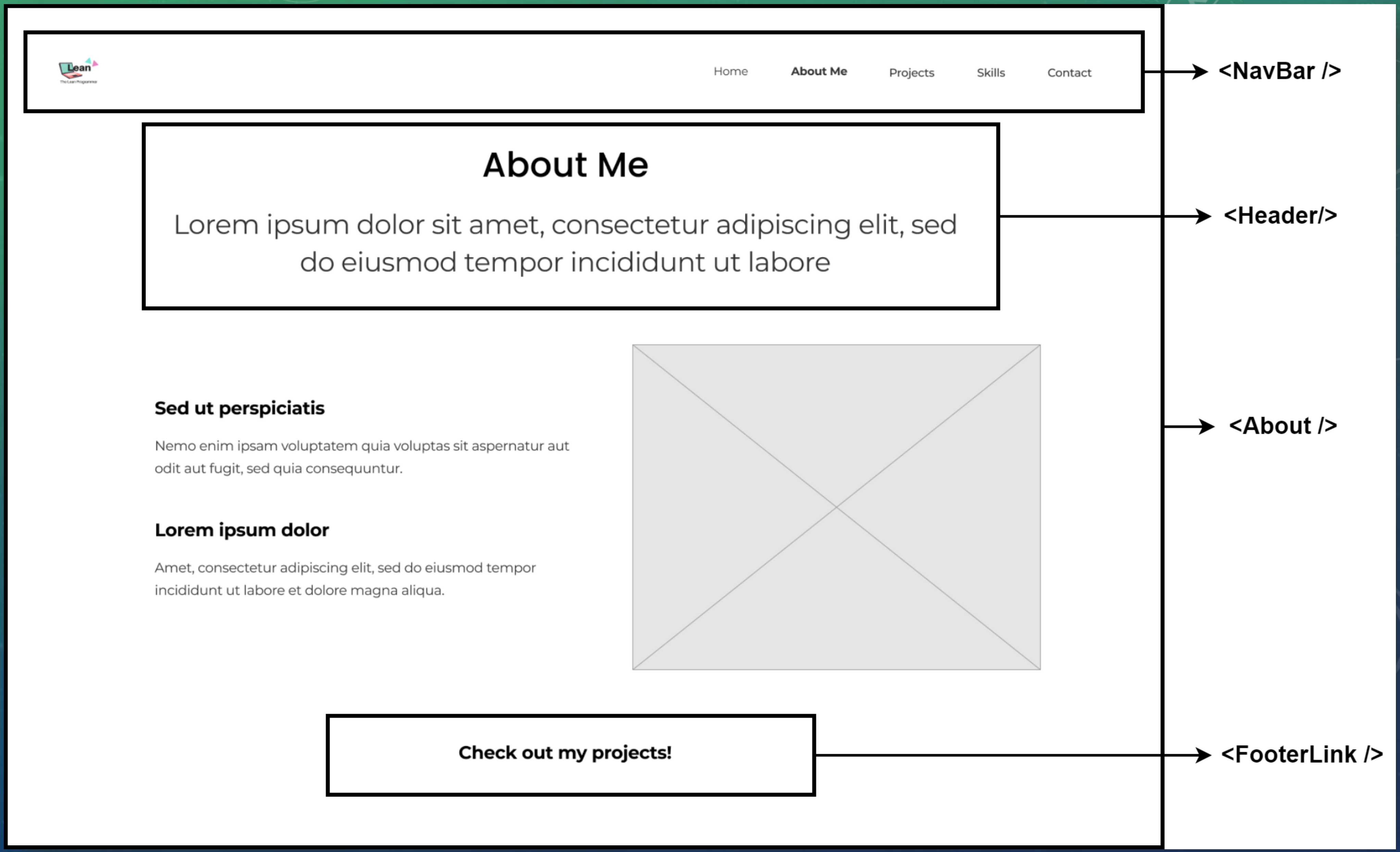
This is Madhav, a full stack dev and a teacher

Know more about me

Connect with me

<Home />

ABOUT



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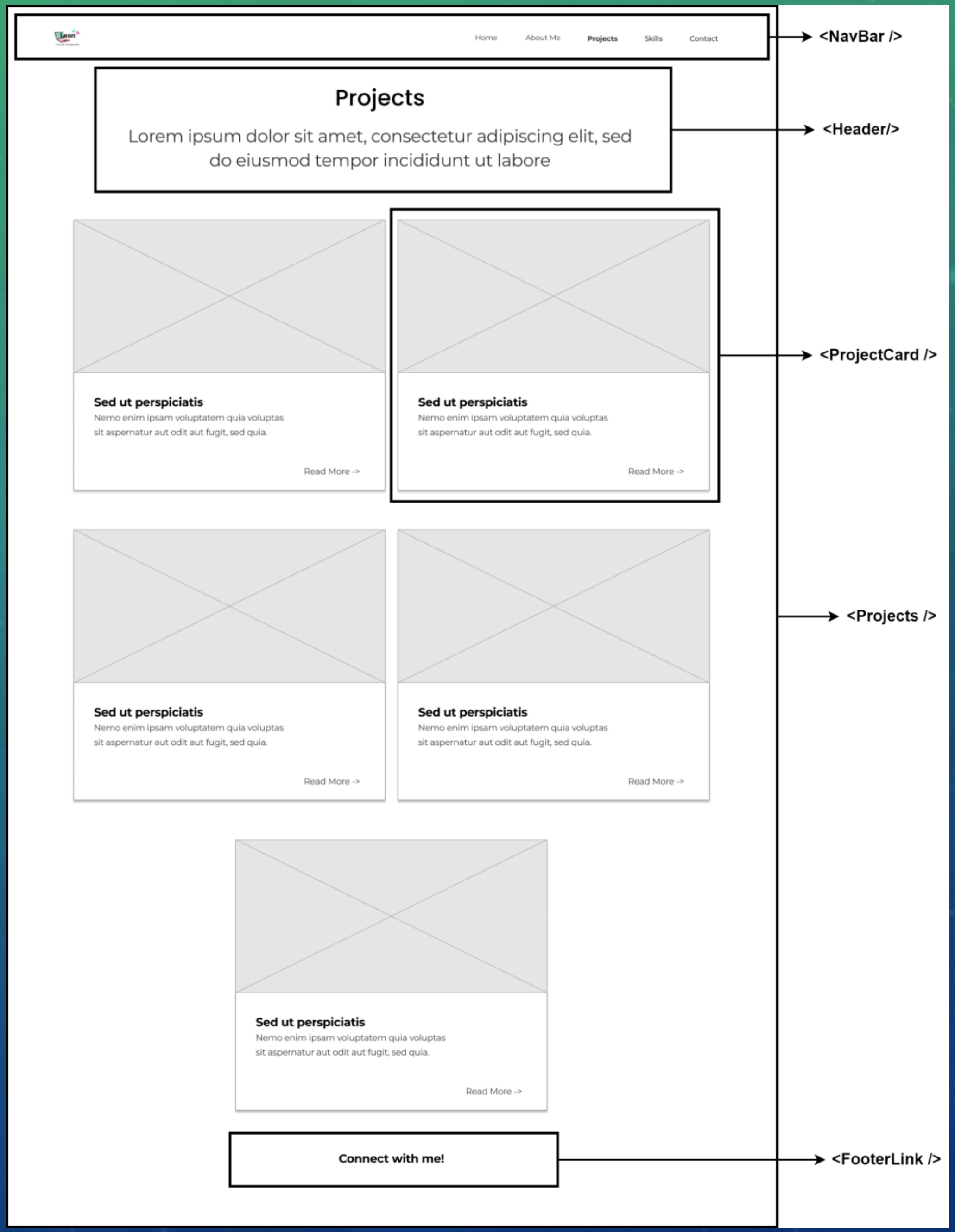
PROJECTS



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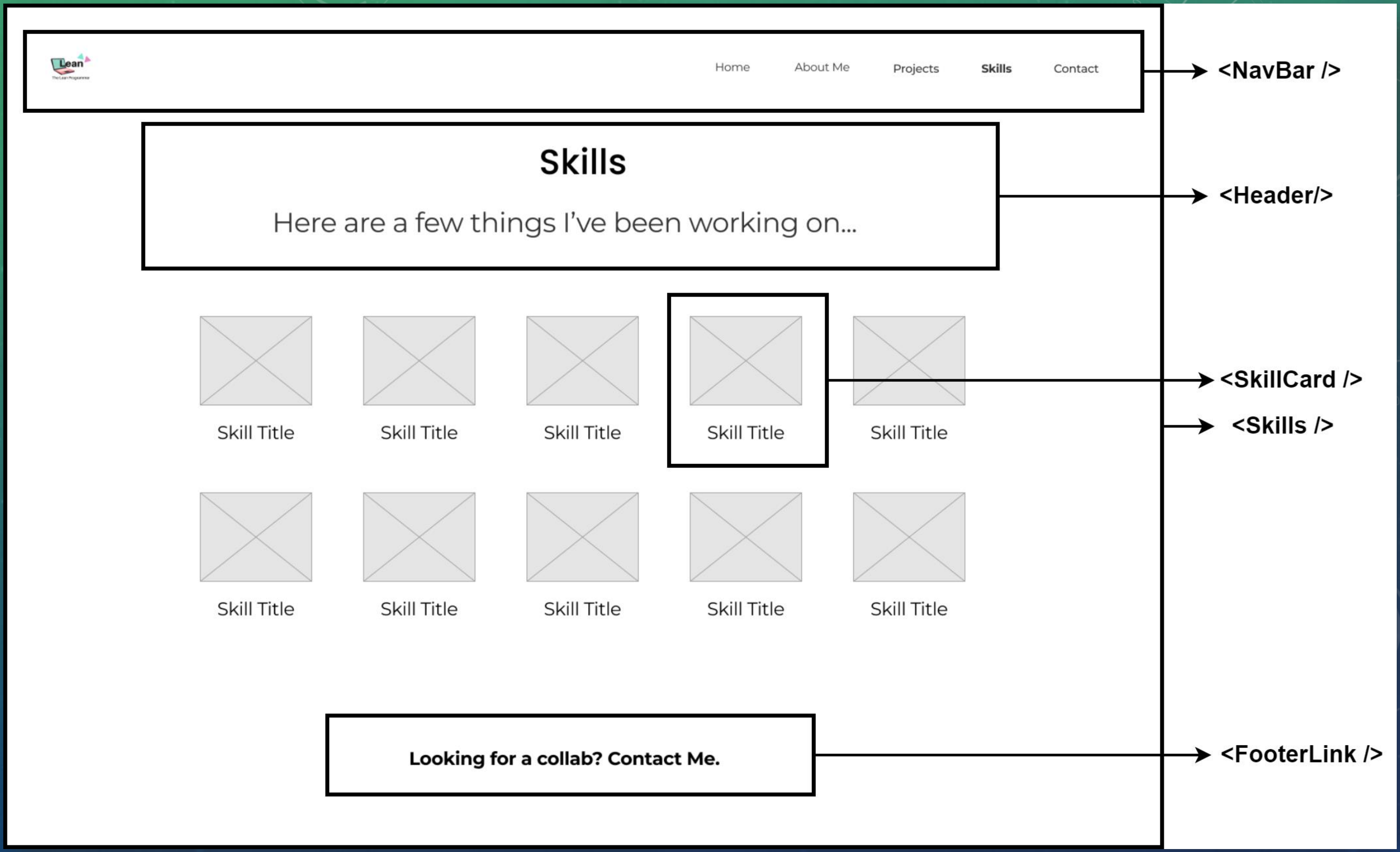
SKILLS



Home About Me Projects **Skills** Contact

<NavBar />

Skills

Here are a few things I've been working on...

<Header/>

Skill Title

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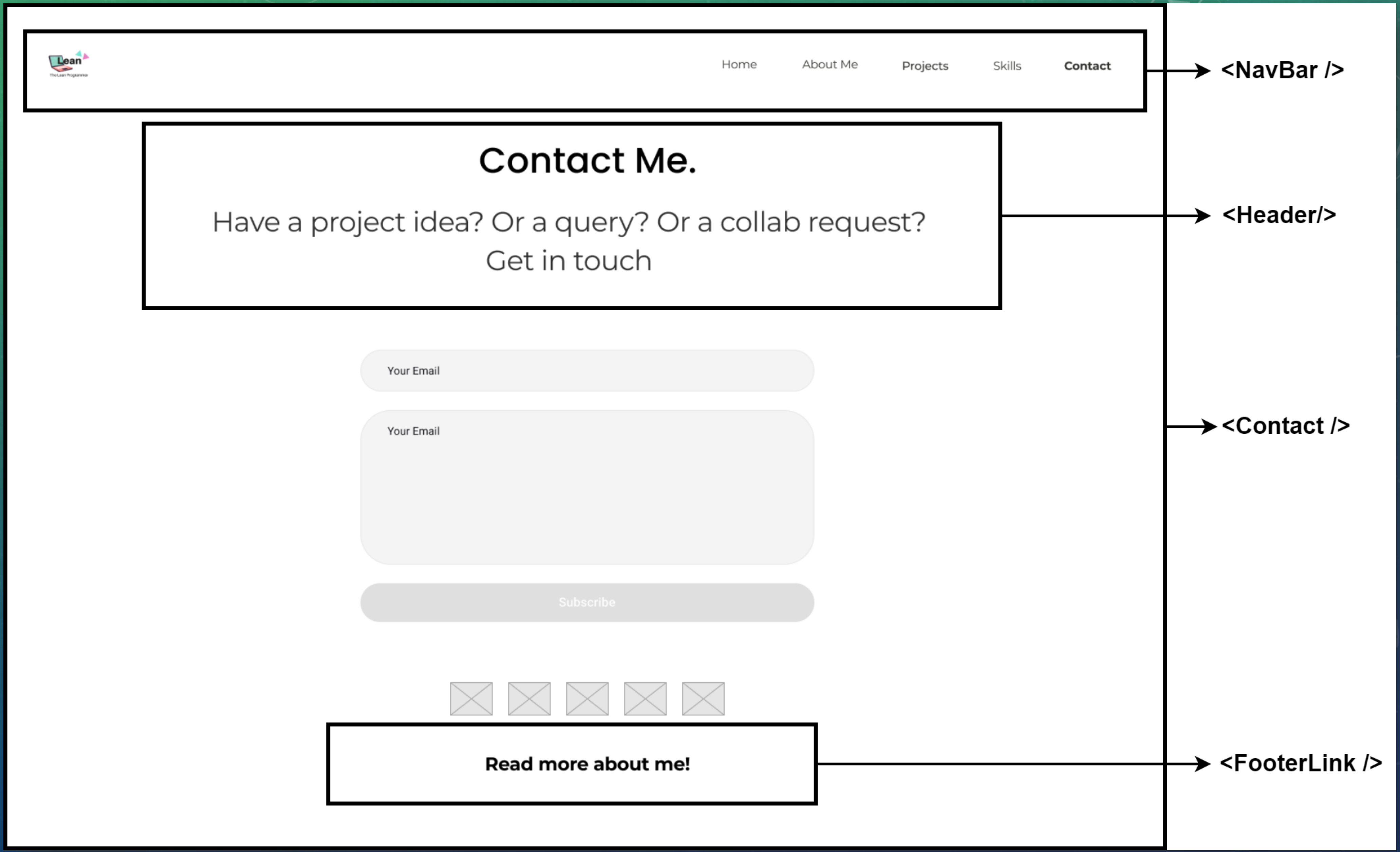
CONTACT



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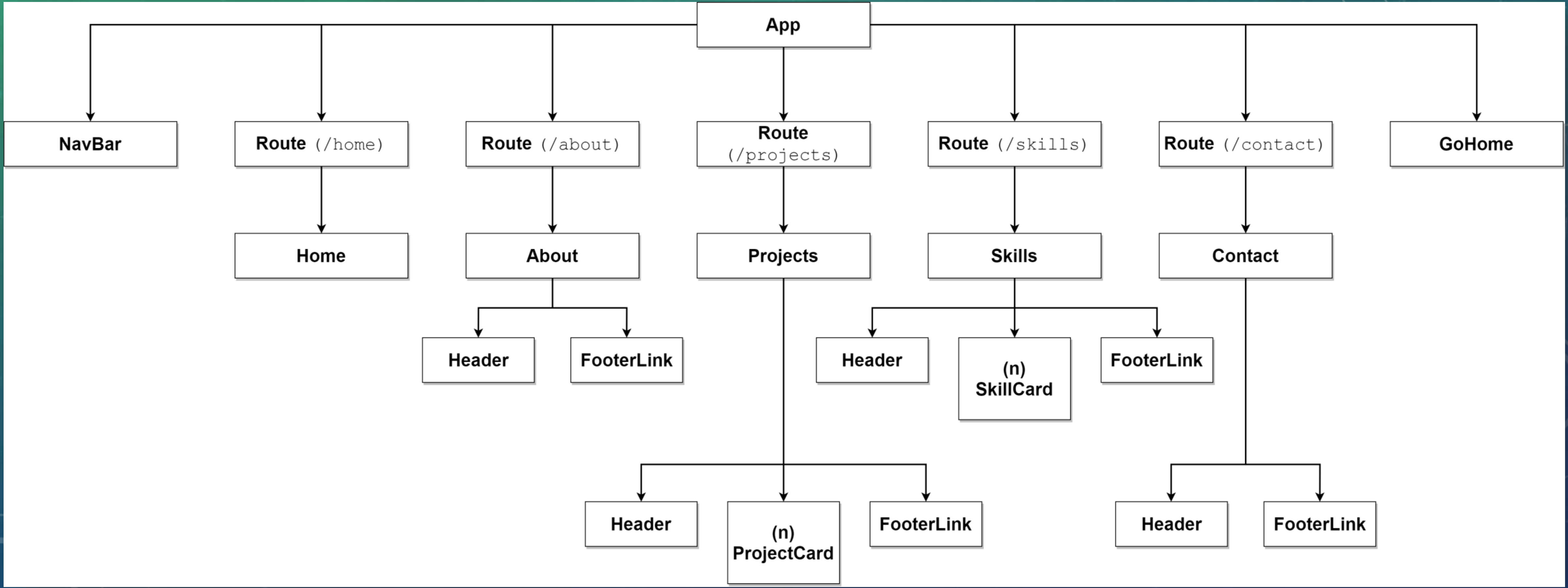
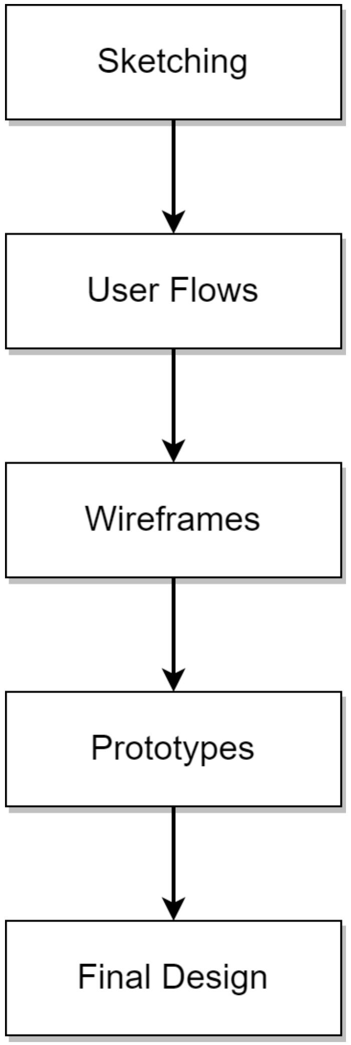
COMPONENT ARCHITECTURE





Sketching

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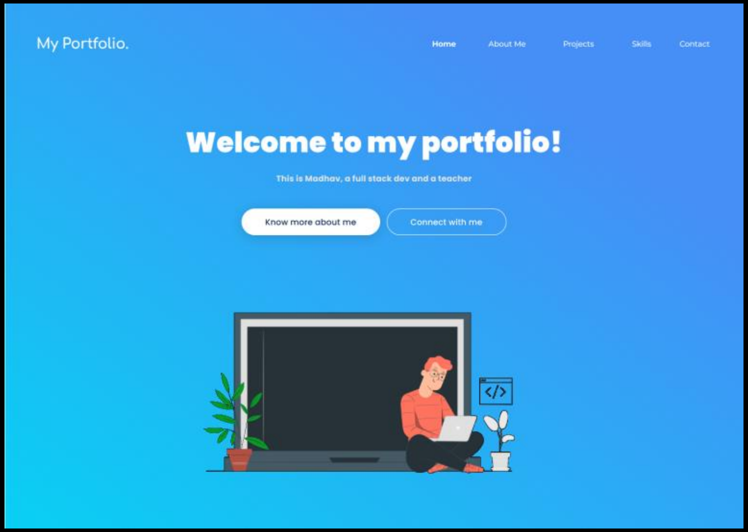
Final Design

FINAL DESIGNS



My Portfolio.

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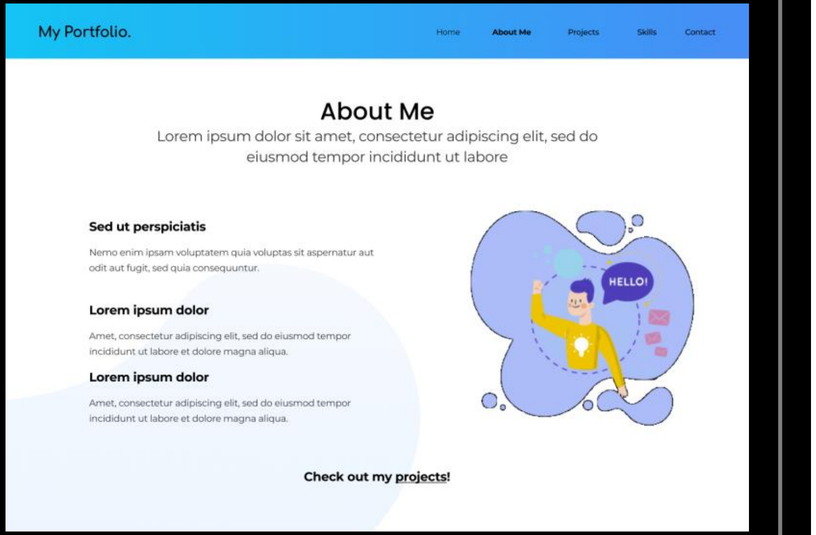

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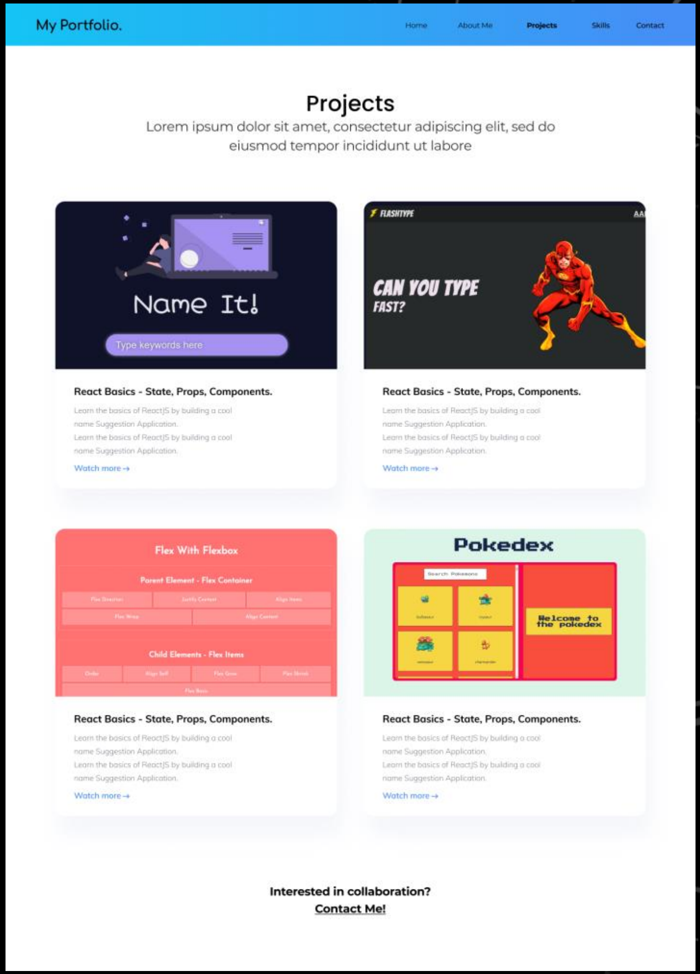
Check out my projects!



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Projects

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React Basics - State, Props, Components.

Learn the basics of ReactJS by building a cool name Suggestion Application. Learn the basics of ReactJS by building a cool name Suggestion Application.

Watch more →

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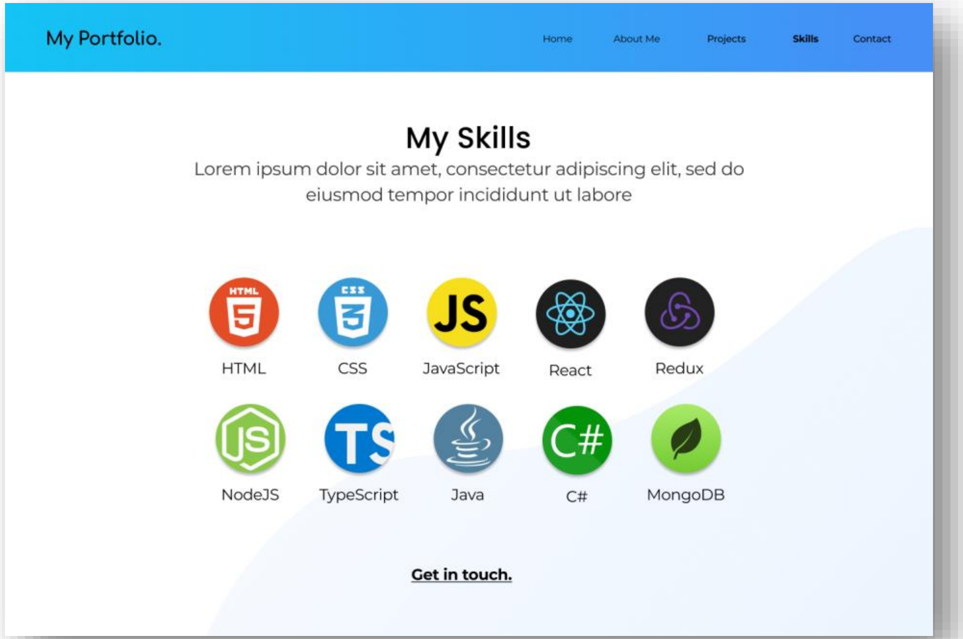
Watch more →

Interested in collaboration?
Contact Me!



My Skills

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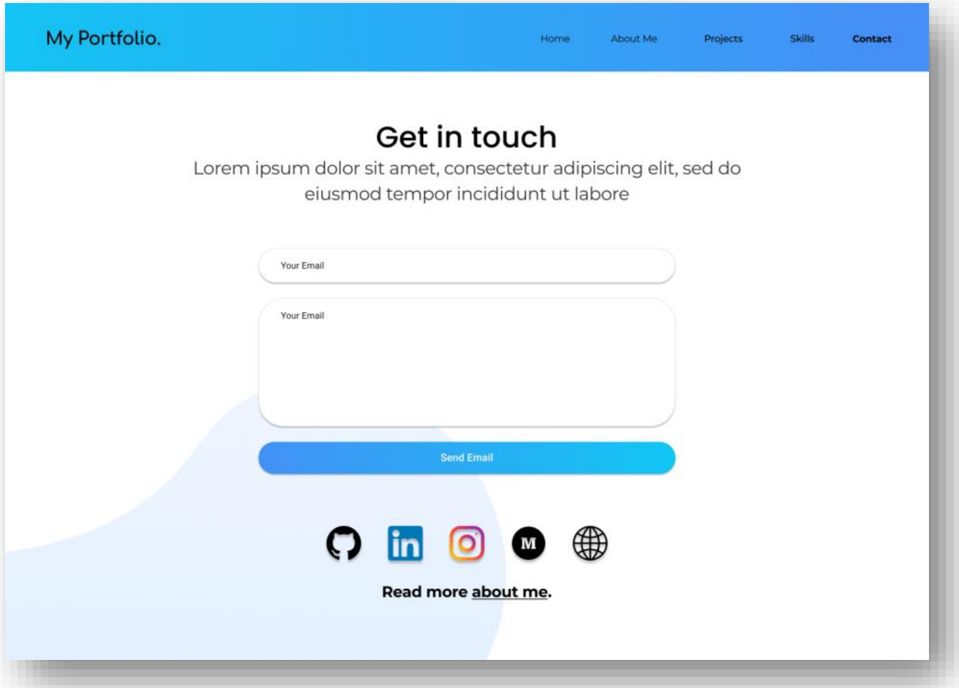
Get in touch.



Get in touch

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Read more about me.

SECTION 2: UNDERSTANDING THE REACT ROUTER

LET'S SET UP OUR APP

```
npx create-react-app portfolio
```

```
npm install react-router-dom
```

```
npm install react-burger-menu
```

theleanprogrammer.com/portfolio-assets.rar

WHAT IS REACT ROUTER, AND WHY DO WE NEED IT?

- We wouldn’t always have a “single page” app.
- For example –
  - facebook.com/
  - facebook.com/profile
  - facebook.com/messages/12345
- Now this can happen in two ways –
  - Server side
  - Client side
- React router allows us to handle the user navigation (at client side) from our react app.

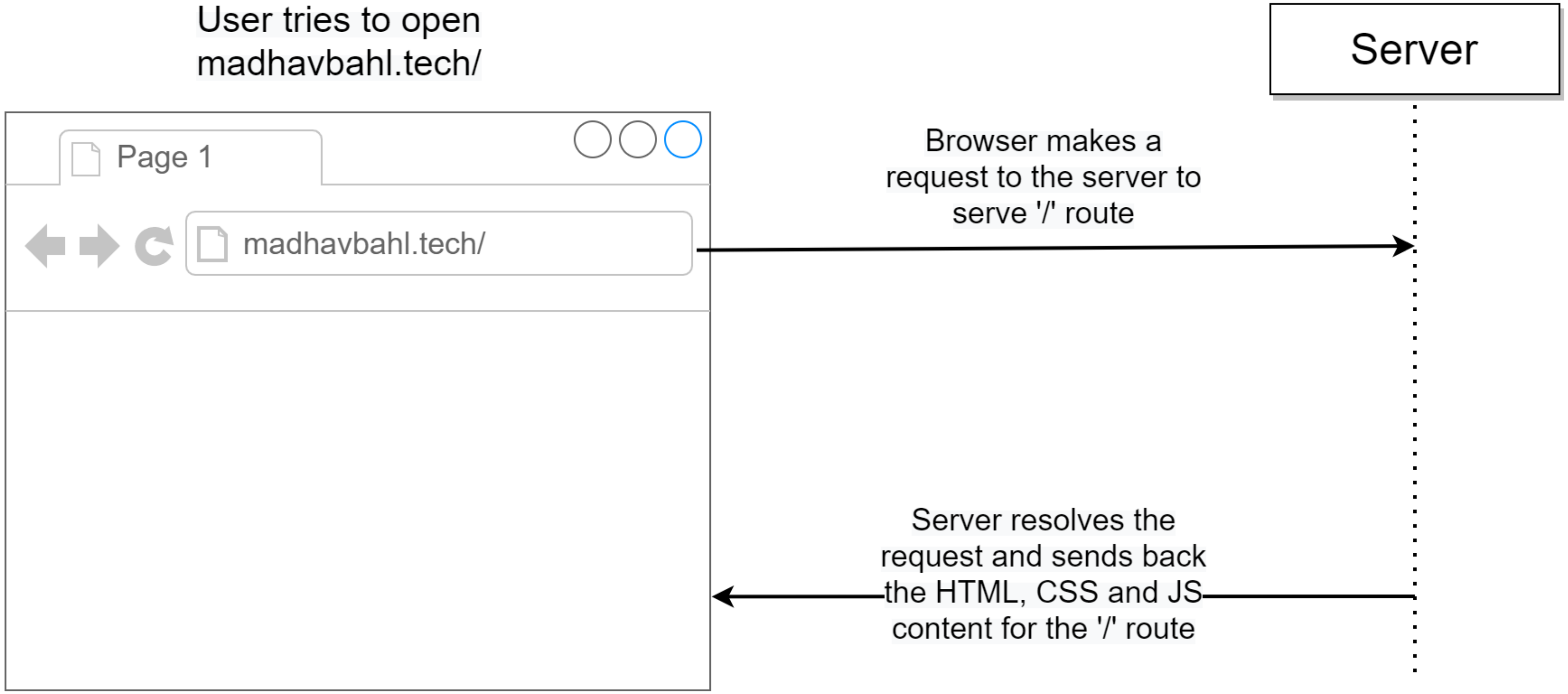
SERVER-SIDE ROUTING

A QUICK OVERVIEW

Server Side Routing

(initial '/' request)

User tries to open madhavbahl.tech/

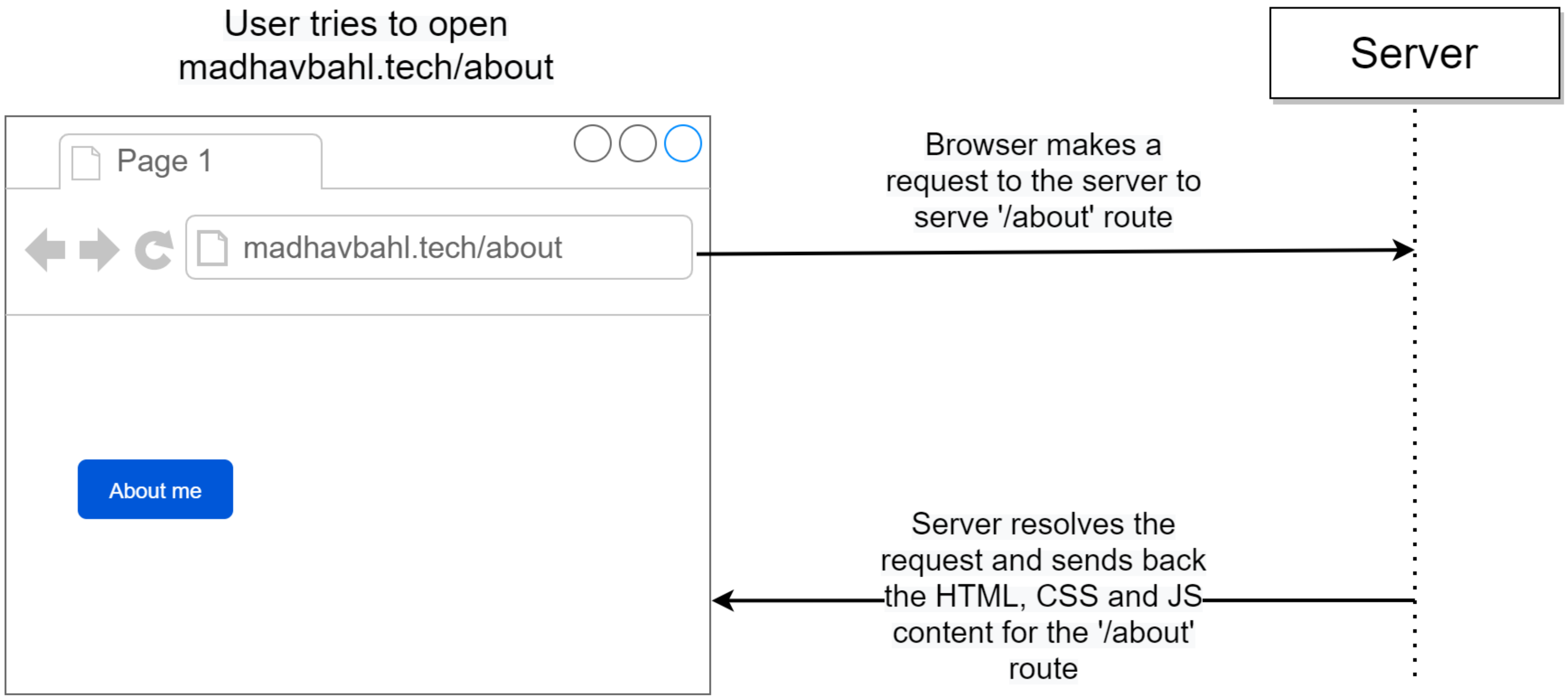


Browser makes a request to the server to serve '/' route

Server resolves the request and sends back the HTML, CSS and JS content for the '/' route

Server Side Routing

(next '/about' request)



User tries to open madhavbahl.tech/about

Browser makes a request to the server to serve '/about' route

Server resolves the request and sends back the HTML, CSS and JS content for the '/about' route

SERVE-SIDE ROUTING

- A server-side request will cause the whole page to refresh
- It will request the data that’s needed for the current page – Not less, not more
- This doesn’t mean it’s efficient – e.g. Header/Footer are generally same, yet they will be loaded again.
- Deployment is sometimes easier (since server side routing has been the standard since a long time)
- If not optimized, full page render can be expensive

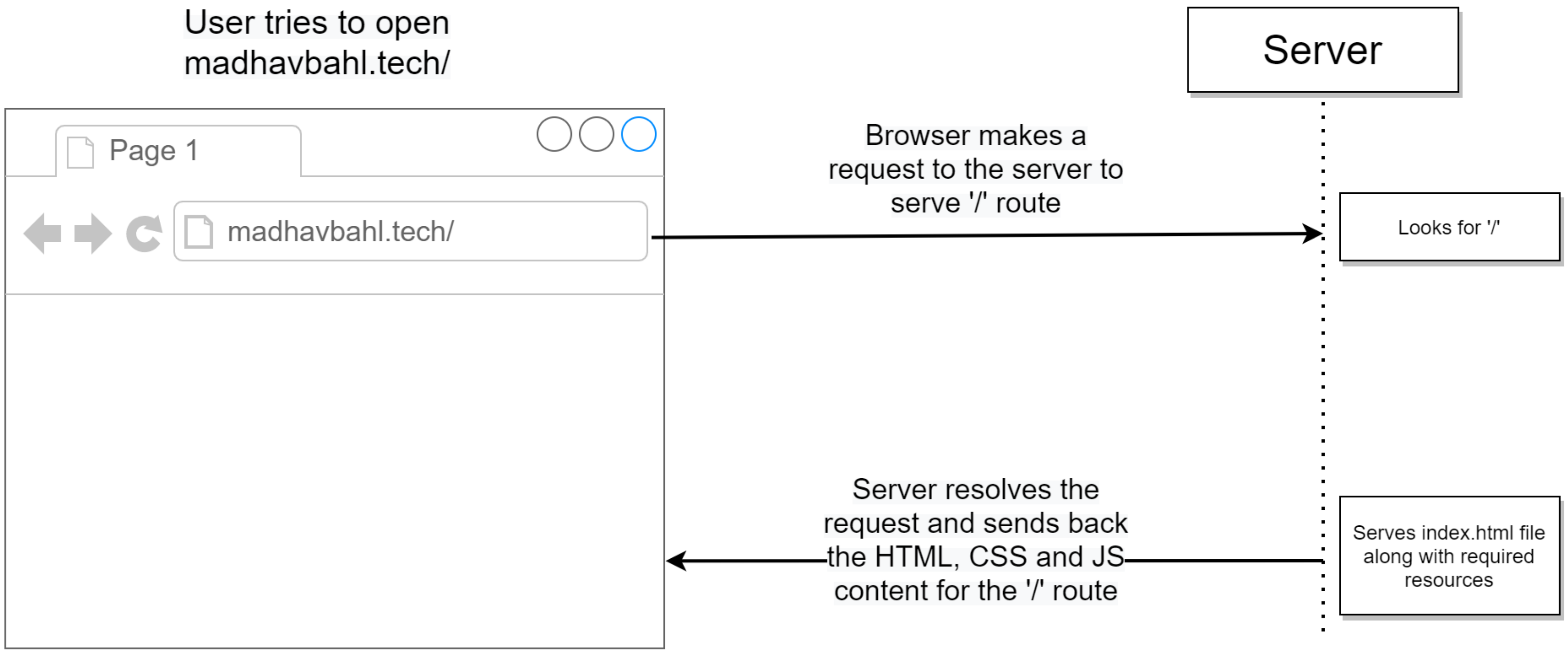
CLIENT-SIDE ROUTING

A QUICK OVERVIEW

THE
LEAN
PROGRAMMER

Client Side Routing

(initial '/' request)



User tries to open madhavbahl.tech/

Browser makes a request to the server to serve '/' route

Looks for '/'

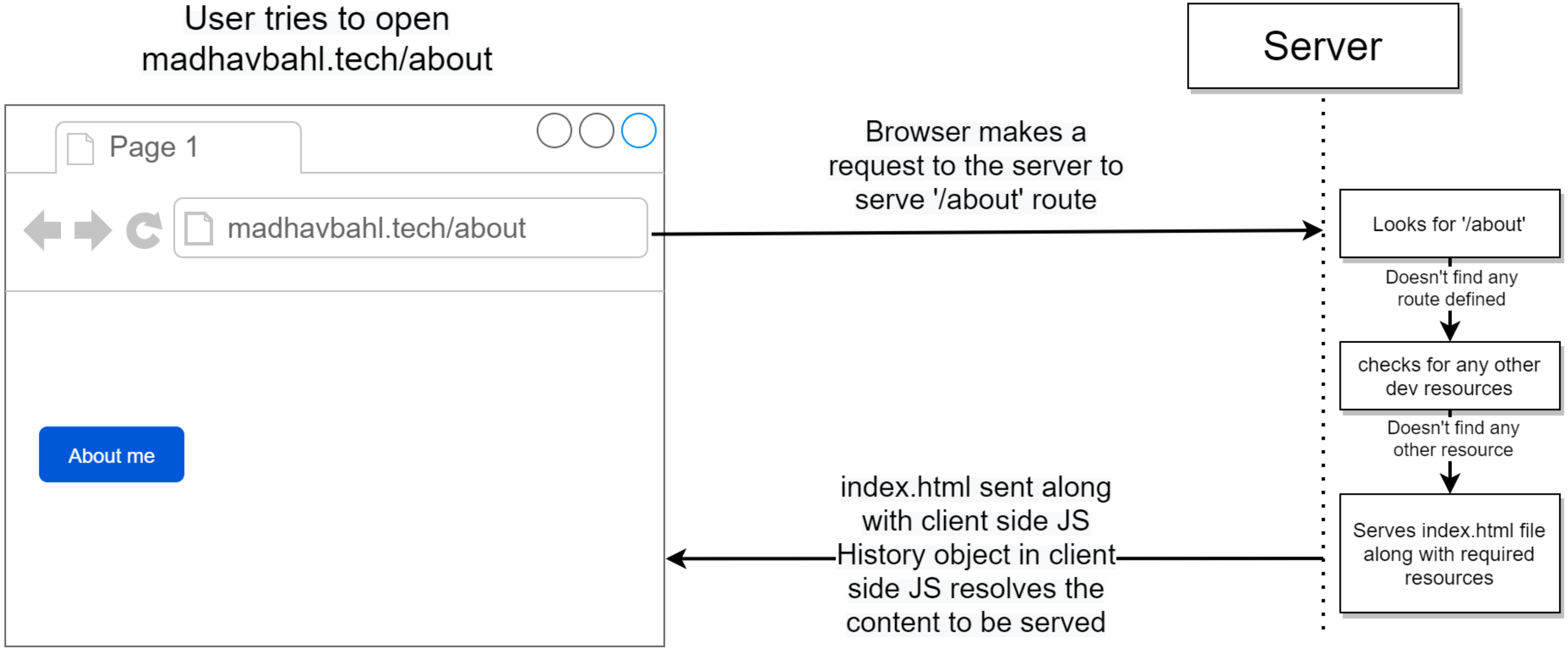
Server resolves the request and sends back the HTML, CSS and JS content for the '/' route

Serves index.html file along with required resources

THE LEAN PROGRAMMER

Client Side Routing

(**initial** '/about' request)



User tries to open madhavbahl.tech/about

Browser makes a request to the server to serve '/about' route

Looks for '/about'

Doesn't find any route defined

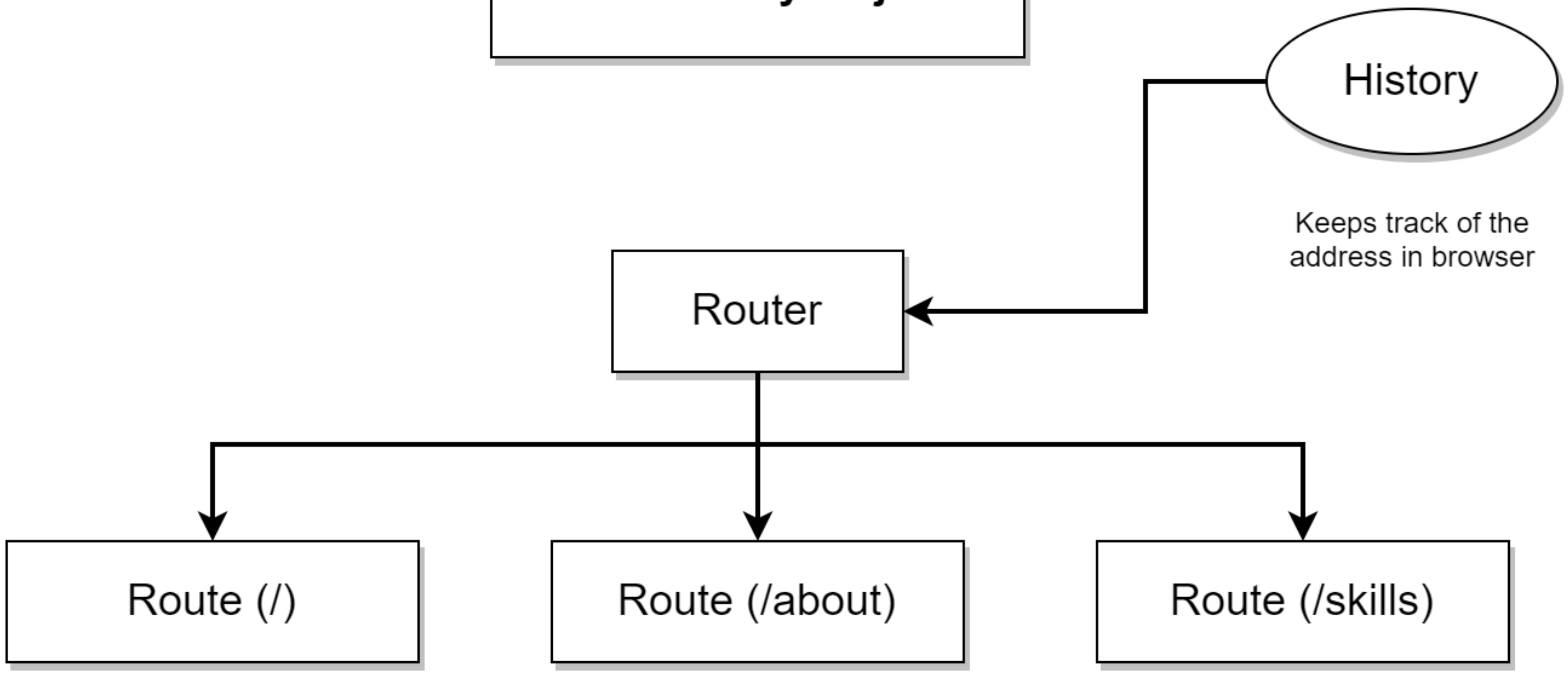
checks for any other dev resources

Doesn't find any other resource

Serves index.html file along with required resources

index.html sent along with client side JS History object in client side JS resolves the content to be served

The History Object



History

Keeps track of the address in browser

Router

Route (/)

Route (/about)

Route (/skills)

CLIENT-SIDE ROUTING

- Routing is internally handled by client side JS
- Routing between views looks more smooth as there’s no “full page reload”
- Redundant components don’t need to be loaded again and again (e.g. Header/Footer)
- Again, this doesn’t mean it’s more efficient, since most of the client side JS is loaded on the first request, so the initial loading time can be relatively high.
- Requires more set-up on client side
- Can affect search engine results.

LET'S CODE OUT OUR MULTI-PAGE APP!

WHEN AND WHY DO WE NEED ‘EXACT’?

- React router matches the URL route in browser with the routes we define
- The match is more like a “contains” check
- Therefore, ‘/’ will match with both ‘/’ and ‘/about’
- ‘/projects’ will match with both ‘/projects’ and ‘projects/25’
- To prevent this, we use the ‘exact’ check!

PROGRAMMATIC NAVIGATION

- Not every-time the user will specifically click on a button to change the page
- For example –
    - Showing the profile after sign in was successful
    - Removing the splash screen after (say) 2 seconds
- React router also gives us a provision of navigating programmatically!
- We can use the history object to go back, or go to a specific page.

TYPES OF ROUTERS

1. Browser Router

- localhost:3000**/about**
- Everything after the top-level domain is seen as the route

2. Hash Router

- localhost:3000**/#/about**
- Everything after the ‘#’ is seen as the route

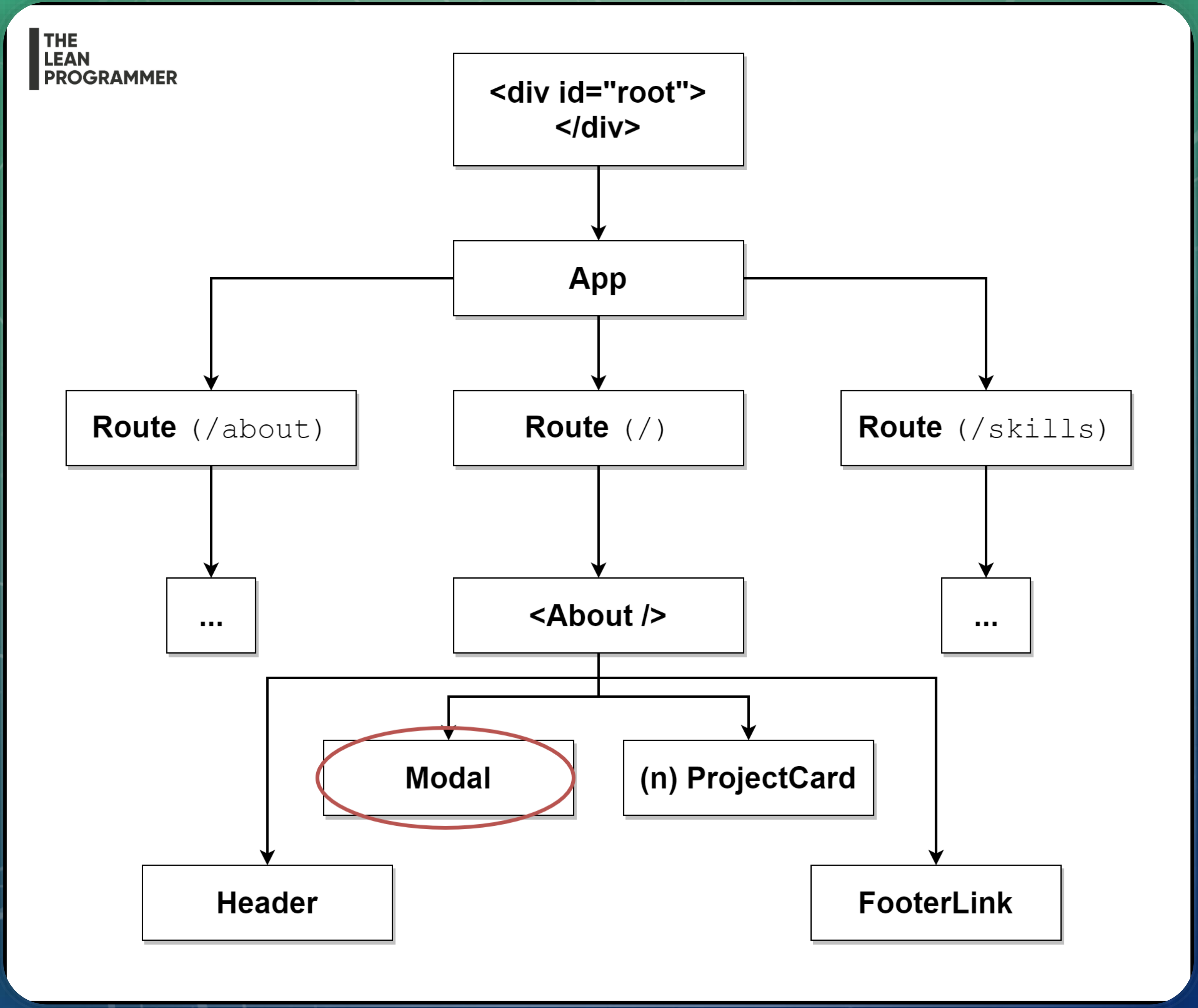
3. Memory Router

- localhost:3000/
- Doesn’t use the URL to track the routes

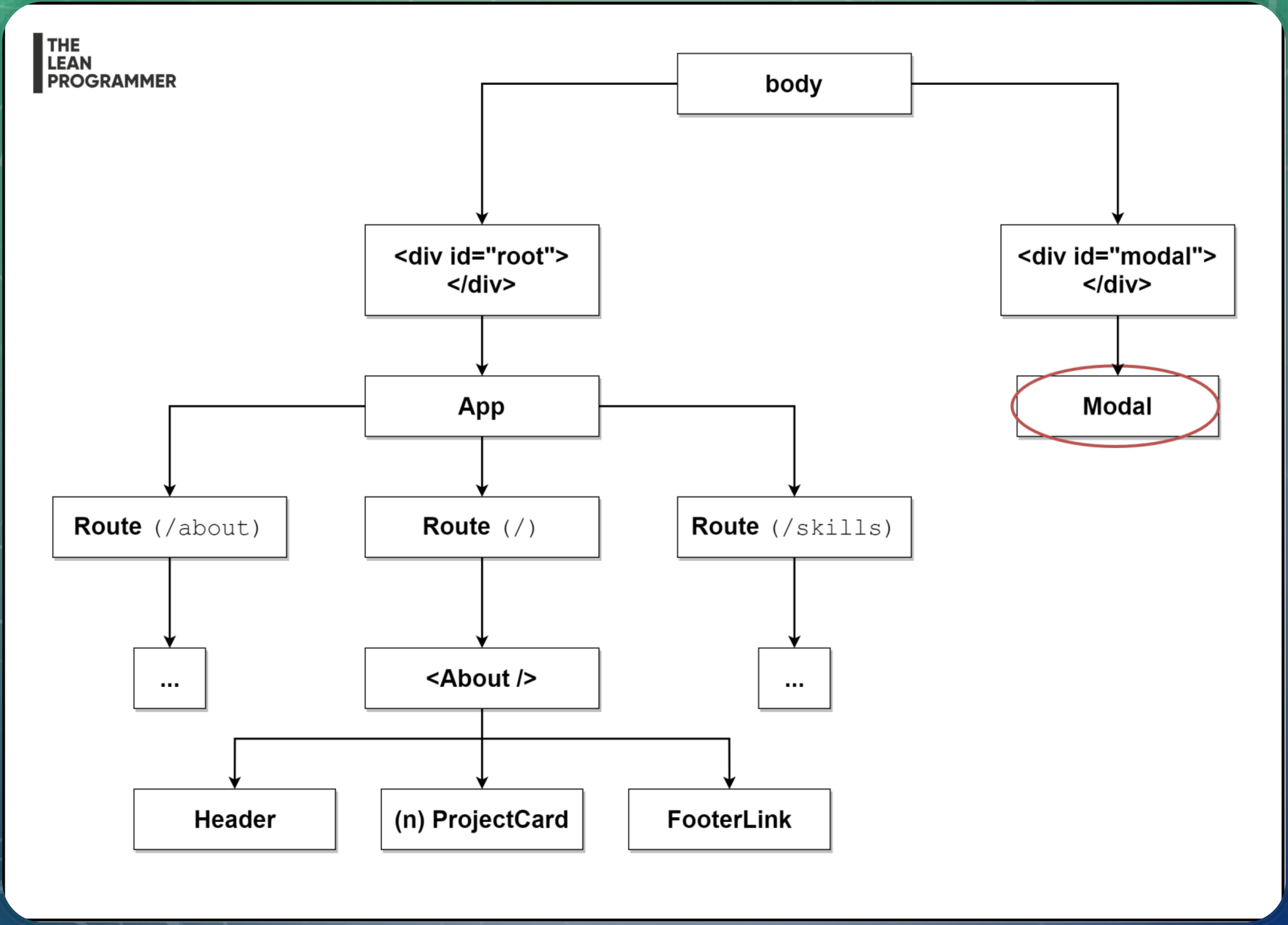
SECTION 3: UNDERSTANDING THE REACT PORTALS

A QUICK QUESTION!

WHERE WILL YOU ADD THE MODAL COMPONENT?



WILL IT BE A CHILD OF ABOUT?



REACT PORTALS ALLOW US TO BREAK THIS USUAL FLOW!

LET’S START CODING!

SECTION 4: IMPLEMENTING THE COOL DESIGNS!