



QUICK DESIGN WEBSITE

www.quickdesign.app

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EXECUTIVE SUMMARY

Problem:

- **Structural engineers often spend significant time navigating between multiple tools and references to complete design tasks**
- **Existing solutions are fragmented, not centralized in one platform, and often lack a clear, step-by-step calculation workflow**
- **This makes verification, drafting, and reporting inefficient and time-consuming**

Solution:

A unified, centralized platform that brings all structural design calculations into one place:

- **Multiple standardized calculation sheets within a single system**
- **Each calculation sheet presented as a clear, clickable tile**
- **Step-by-step calculations with transparent logic**
- **Outputs structured for easy drafting, checking, and professional reporting**



Search...

REINFORCED CONCRETE DESIGN

ACI 318-19
RECTANGULAR SECTION BENDING

ACI 318-19
RECTANGULAR SECTION SHEAR

ACI 318-19
RECTANGULAR SECTION TORSION

ACI 318-19
DEVELOPMENT AND SPLICE LENGTH

ACI 318-19
RECTANGULAR COLUMN

ACI 318-19
INTERIOR COLUMN PUNCHING SHEAR

ACI 318-19
EDGE COLUMN PUNCHING SHEAR

ACI 318-19
CORNER COLUMN PUNCHING SHEAR

ACI 318-19
FOOTING

ACI 318-19
PILE CAP

ACI 224-06
CRACK WIDTH BENDING

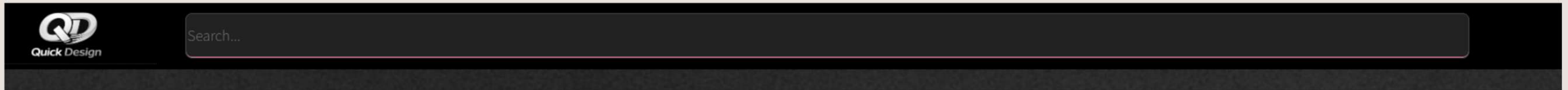
ACI 224-06
CRACK WIDTH DIRECT TENSION

ACI 318-19
CORBEL

ACI 318-19
SPECIAL SHEAR WALL

WEBSITE STRUCTURE

HEADER



Website Logo

- Acts as a home button
- Clicking the logo opens a new instance of the website main page

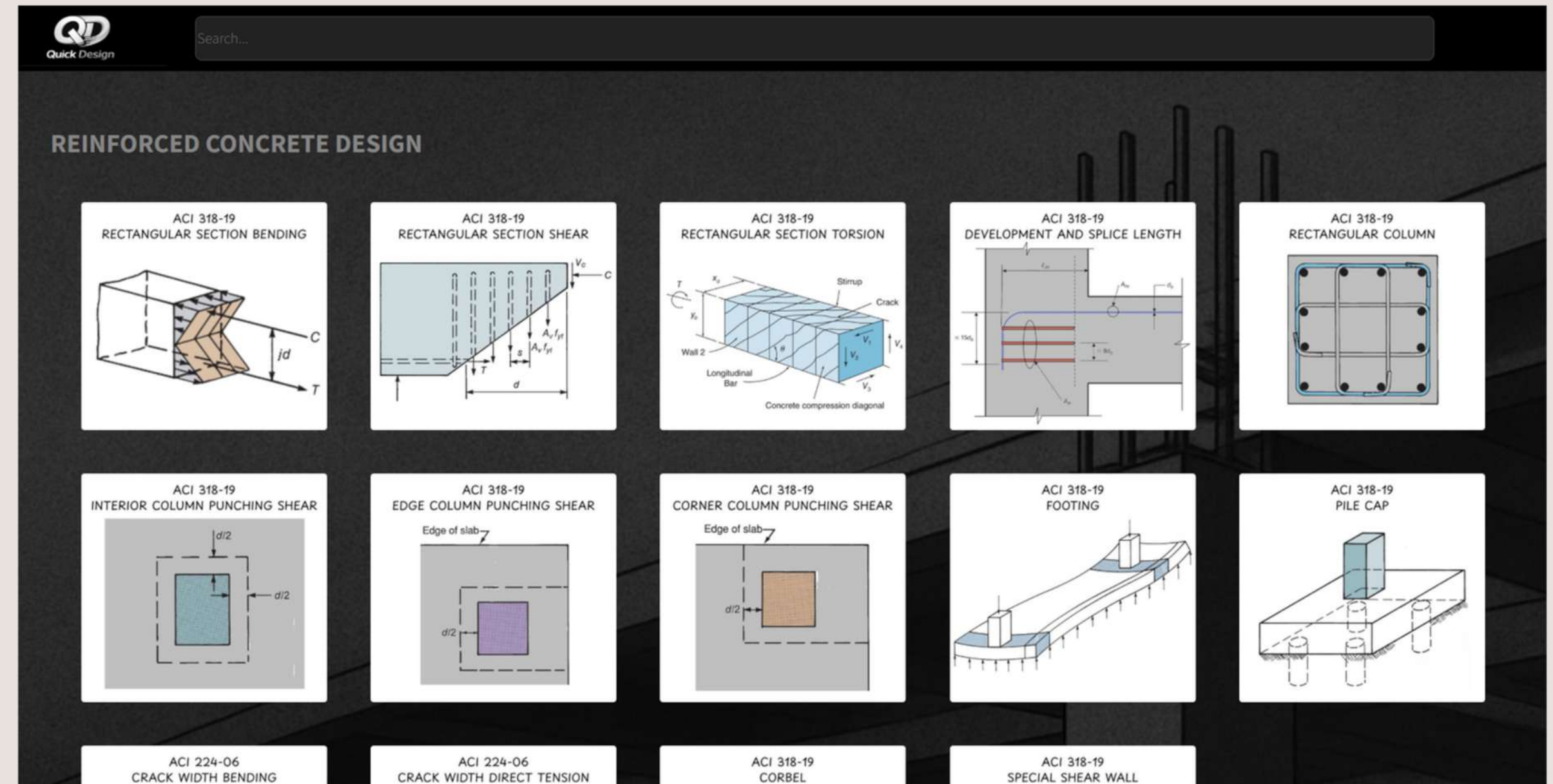
Extendable Search Bar

- Allows users to quickly locate a specific calculation sheet
- Supports typing keywords to filter and search available design calculations

WEBSITE STRUCTURE

MAIN SECTIONS

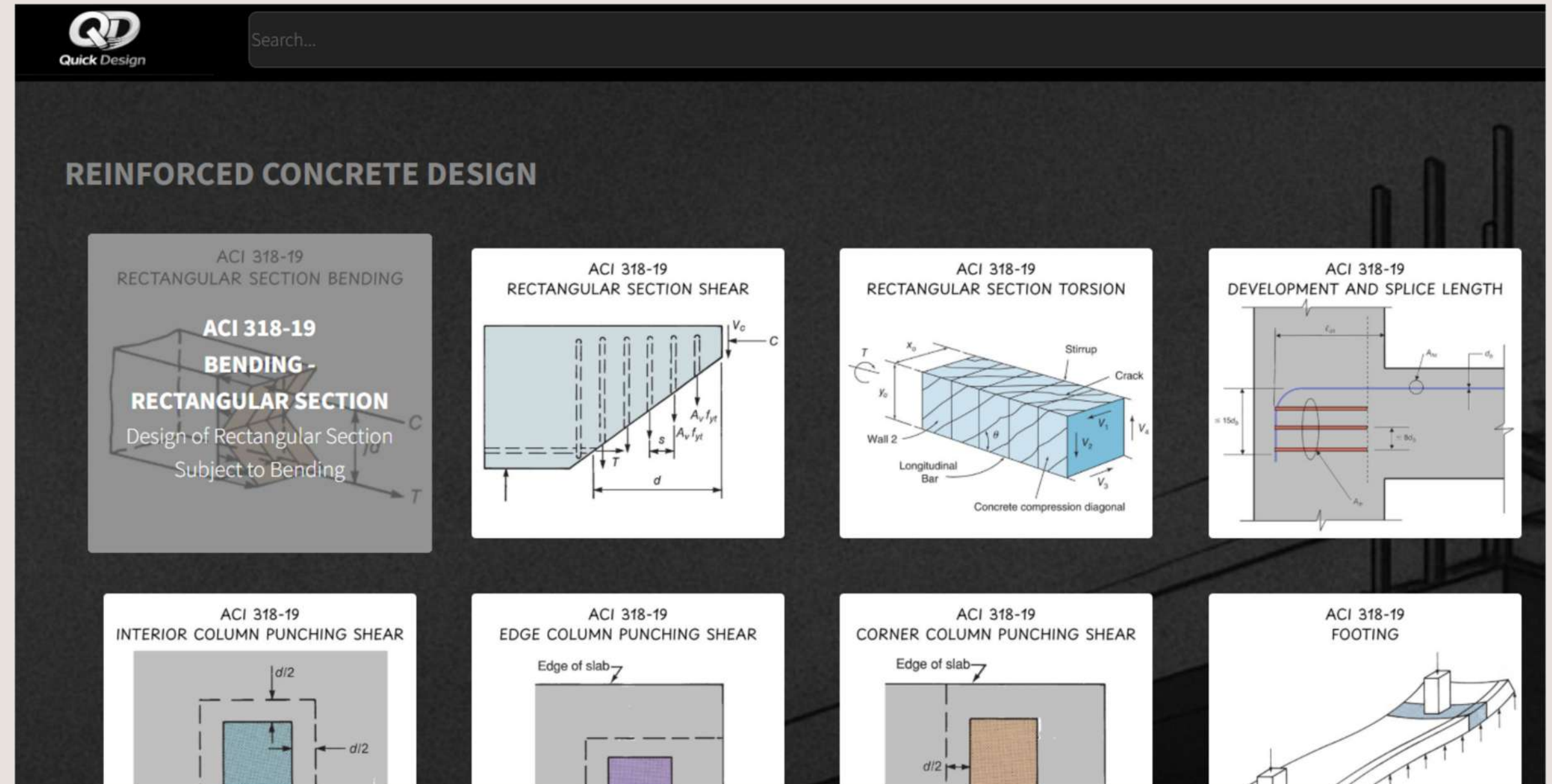
- Structural Analysis
- RC Design
- Steel Design (WIP)



- Each section contains clearly defined, clickable tiles representing individual calculation sheets

WEBSITE STRUCTURE

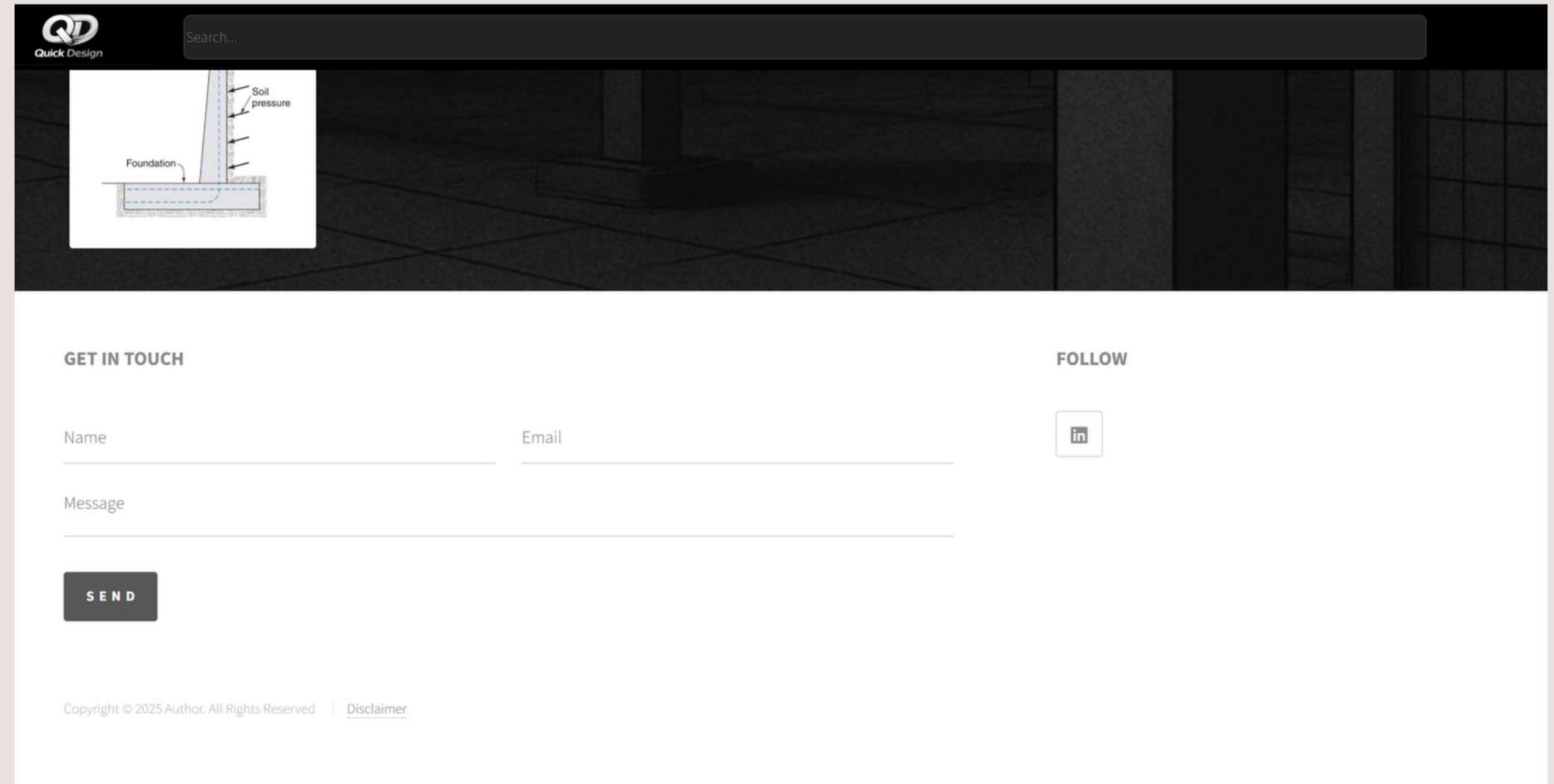
TILES



- Tiles are visually intuitive, to quickly identify the required calculation sheet
- Clicking a tile opens the corresponding design workflow in a new tab
- This tile-based system ensures fast, intuitive navigation, minimizing clicks and significantly reducing time spent searching for calculations.

WEBSITE STRUCTURE

FOOTER

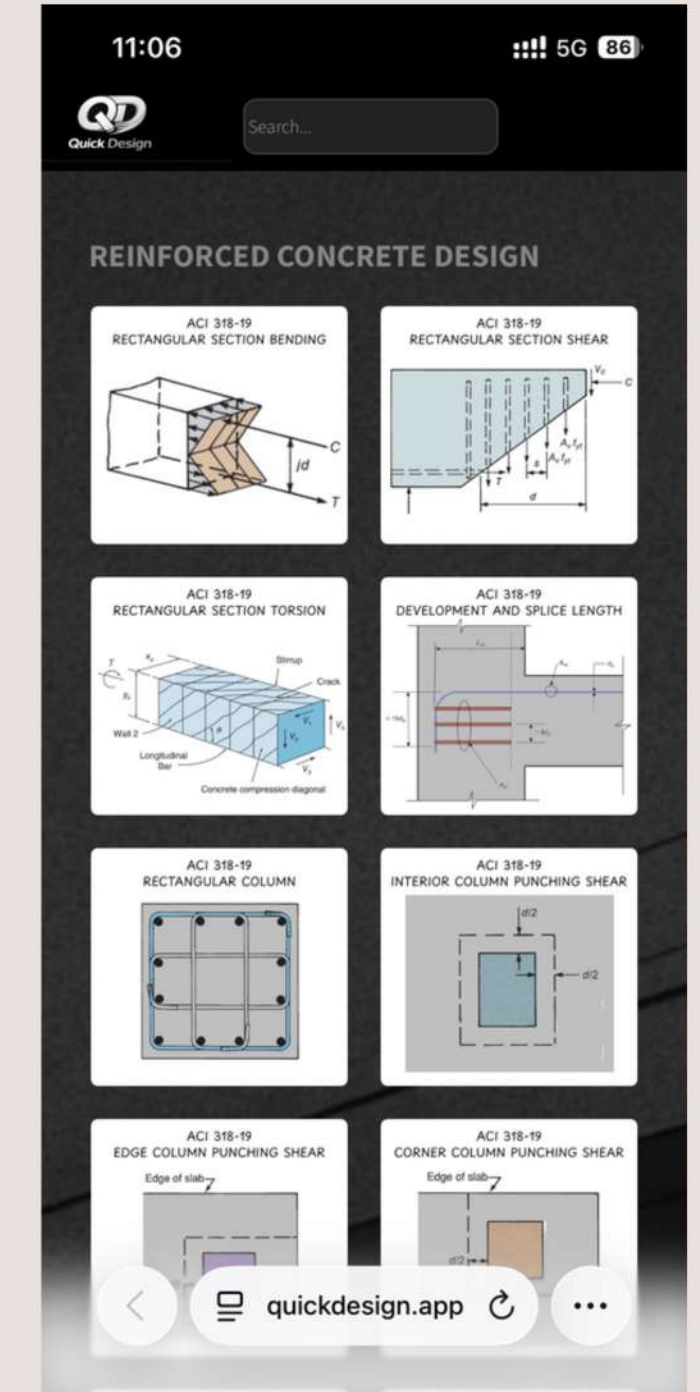
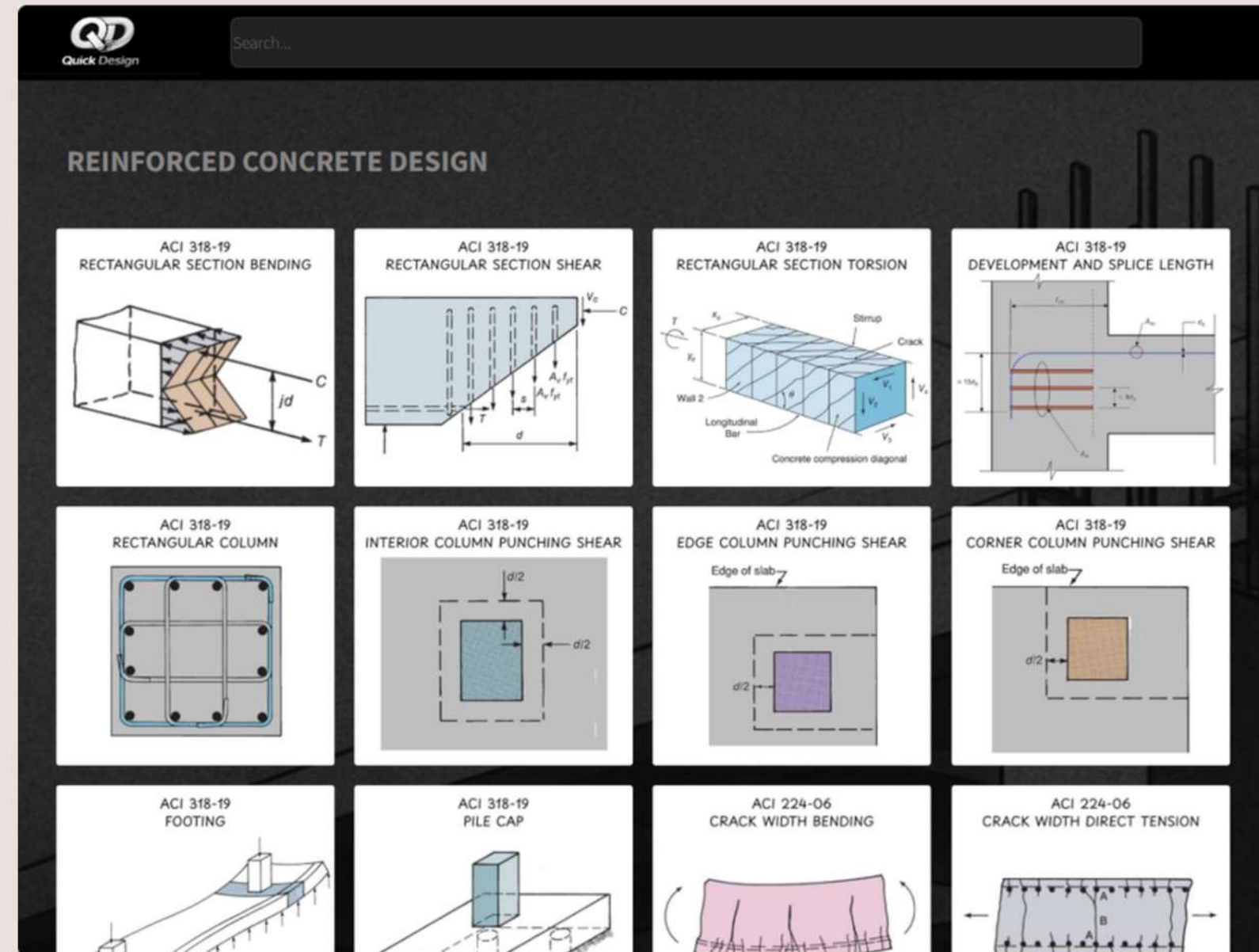


- **FOLLOW:** link for the author professional account
- **GET IN TOUCH:** allow users to easily share there feedback

WEBSITE STRUCTURE

USER EXPERIENCE

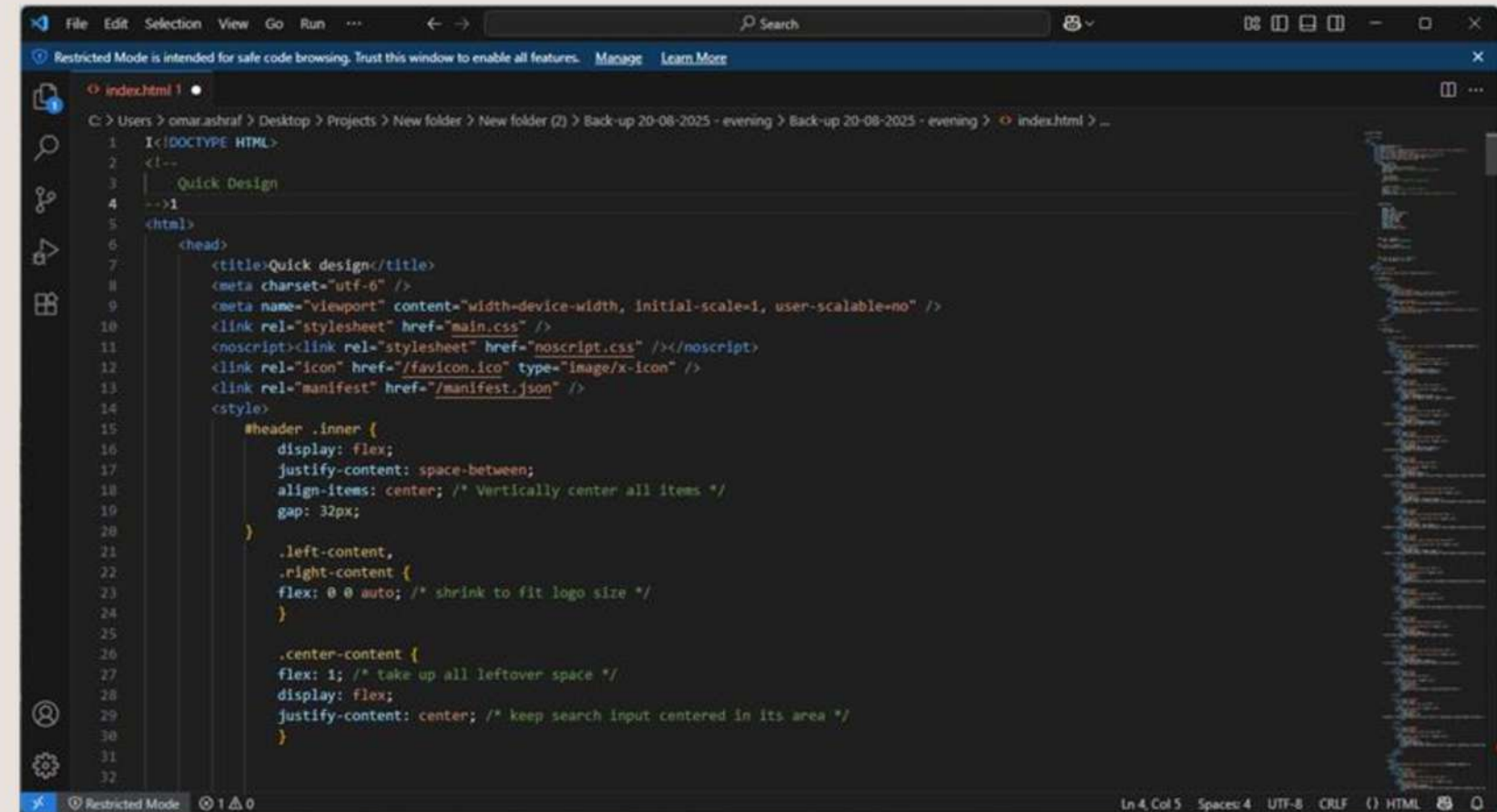
- Minimal clicks
- Consistent UI
- Clean interface
- Fast and efficient
- Engineering focused
- Tablet & Phone Compatibility



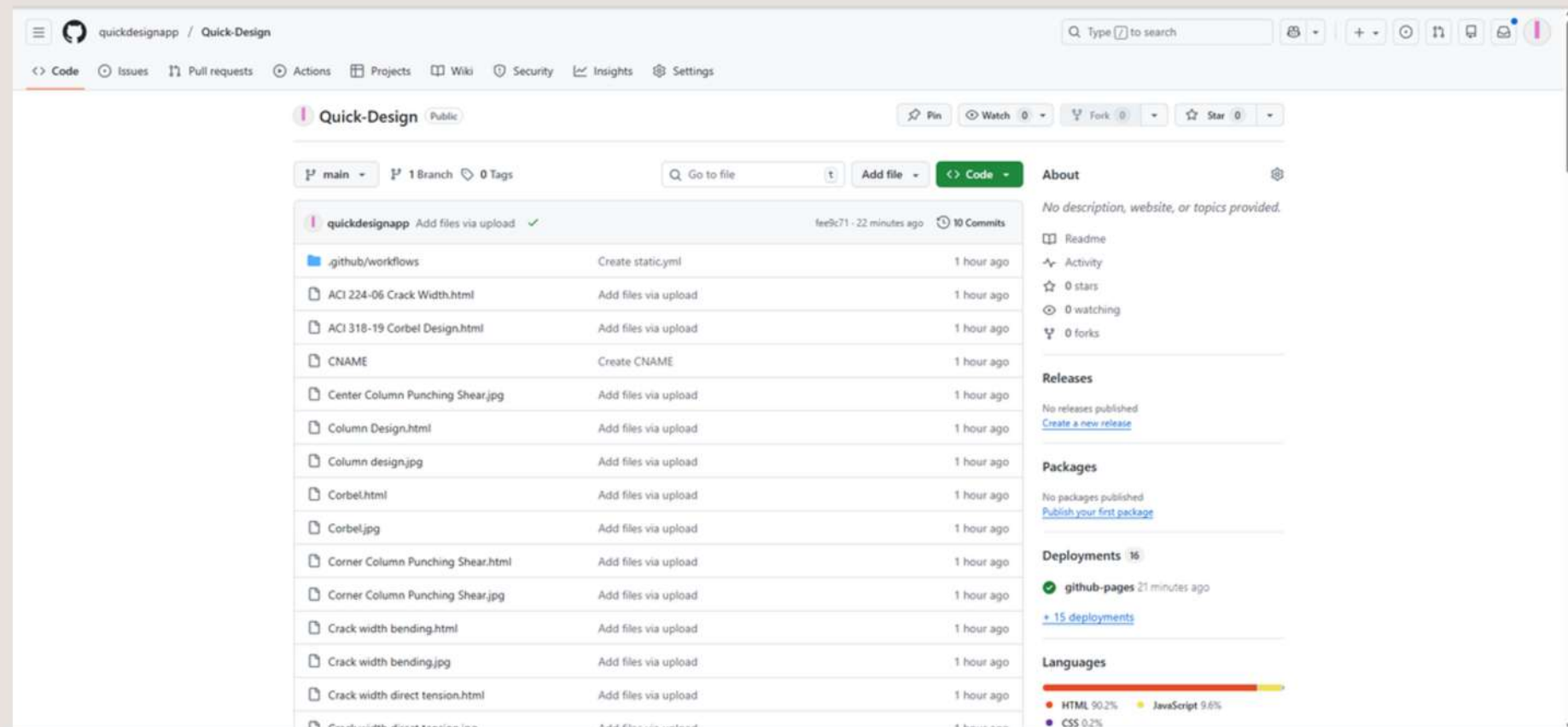
WEBSITE STRUCTURE

FRONTEND LANGUAGES

- HTML
- CSS,
- JavaScript



```
1 <!DOCTYPE HTML>
2 <!--
3   Quick Design
4 -->
5 <html>
6   <head>
7     <title>Quick design</title>
8     <meta charset="utf-6" />
9     <meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=no" />
10    <link rel="stylesheet" href="main.css" />
11    <noscript><link rel="stylesheet" href="noscript.css" /></noscript>
12    <link rel="icon" href="/favicon.ico" type="image/x-icon" />
13    <link rel="manifest" href="/manifest.json" />
14    <style>
15      #header .inner {
16        display: flex;
17        justify-content: space-between;
18        align-items: center; /* Vertically center all items */
19        gap: 32px;
20      }
21      .left-content,
22      .right-content {
23        flex: 0 0 auto; /* shrink to fit logo size */
24      }
25      .center-content {
26        flex: 1; /* take up all leftover space */
27        display: flex;
28        justify-content: center; /* keep search input centered in its area */
29      }
30    </style>
31  </head>
32  <body>
```



A photograph of a city skyline at sunset, with a large dark triangle overlay on the right side. The sky is filled with orange and yellow clouds, and the city lights are visible in the background. The text "THANK YOU" is written in large, white, bold, sans-serif capital letters across the dark triangle.

THANK YOU

2026