CODE EDITOR AND COMPILER FOR 40 LANGUAGES

MALVIKA SINGH | BOGGAVARAPU CH N V SHIVANI

CODE EDITOR AND COMPILER FOR 40 LANGUAGES

Team Memebers

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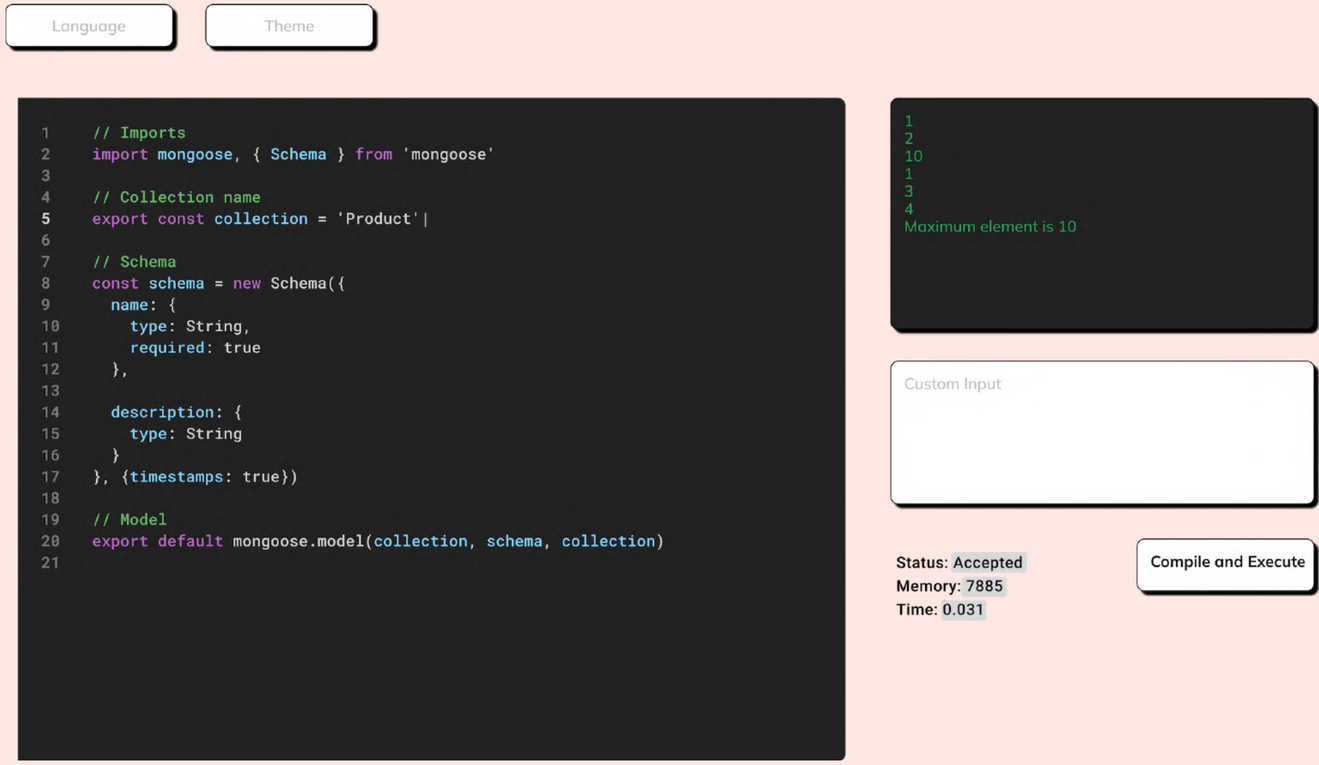
LIVECODE

Problem Statement

An online code execution platform

lets you write code in your favourite programming language and run that code on the same platform.



Project Timeline

01

FIGMA PROTOTYPING

The whole design of the file is completed in the figma. Link can be found in the later slides

02

FRONTEND DEVELOPMENT

The website and the editor are developed using HTML, CSS, JAVASCRIPT and REACT JS storing code in cache.

03

BACKEND DEVELOPMENT

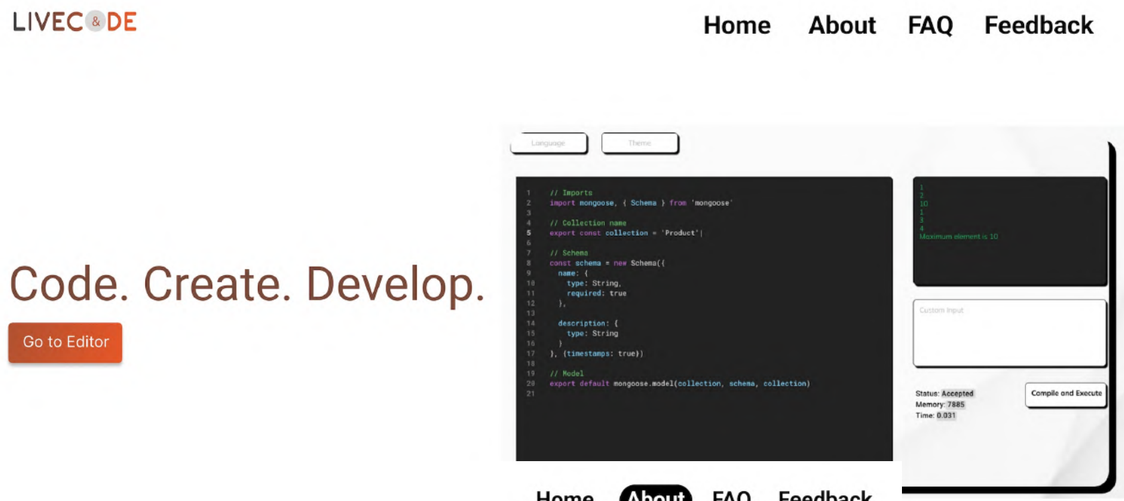
Using MongoDB to store the feedback of the user

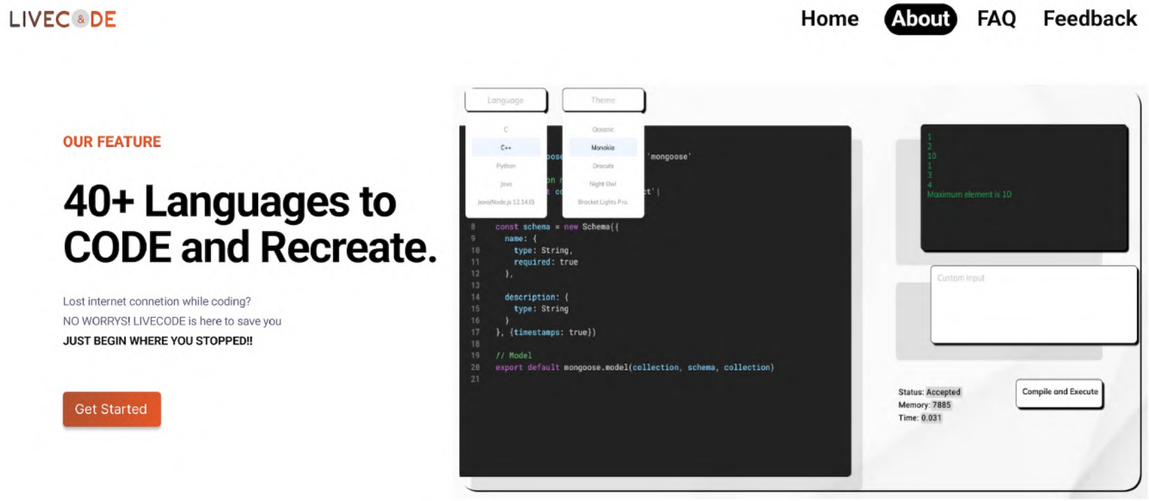
01 Unique Point

02 User Flow

03 User Interface

04 Code





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UNIQUE POINT

The user can also give custom input also.
Upon refreshing the code won't be lost, user can continue from where they stopped.

```
// Imports
import mongoose, { Schema } from 'mongoose'

// Collection name
export const collection = 'Product'|

// Schema
const schema = new Schema({
  name: {
    type: String,
    required: true
  },

  description: {
    type: String
  }
}, {timestamps: true})

// Model
export default mongoose.model(collection, schema, collection)

```

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USER FLOW.

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- A user lands on the web application and can select their preferred programming languages (default is JavaScript).
- Once the user is done writing their code, they can compile their code and see the output / results in the output window.
- They'll either see success or failure for their code snippets. Everything is visible in the code output window.
- The user can add custom inputs to their code snippets, and the judge (our online compiler) will take into account the custom input which the user supplies.
- The user can see relevant details of the code that was executed (Example: It took 5ms for the code to compile and execute, 2024 kb of memory was used, and the runtime status was a success).

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USER INTERFACE.

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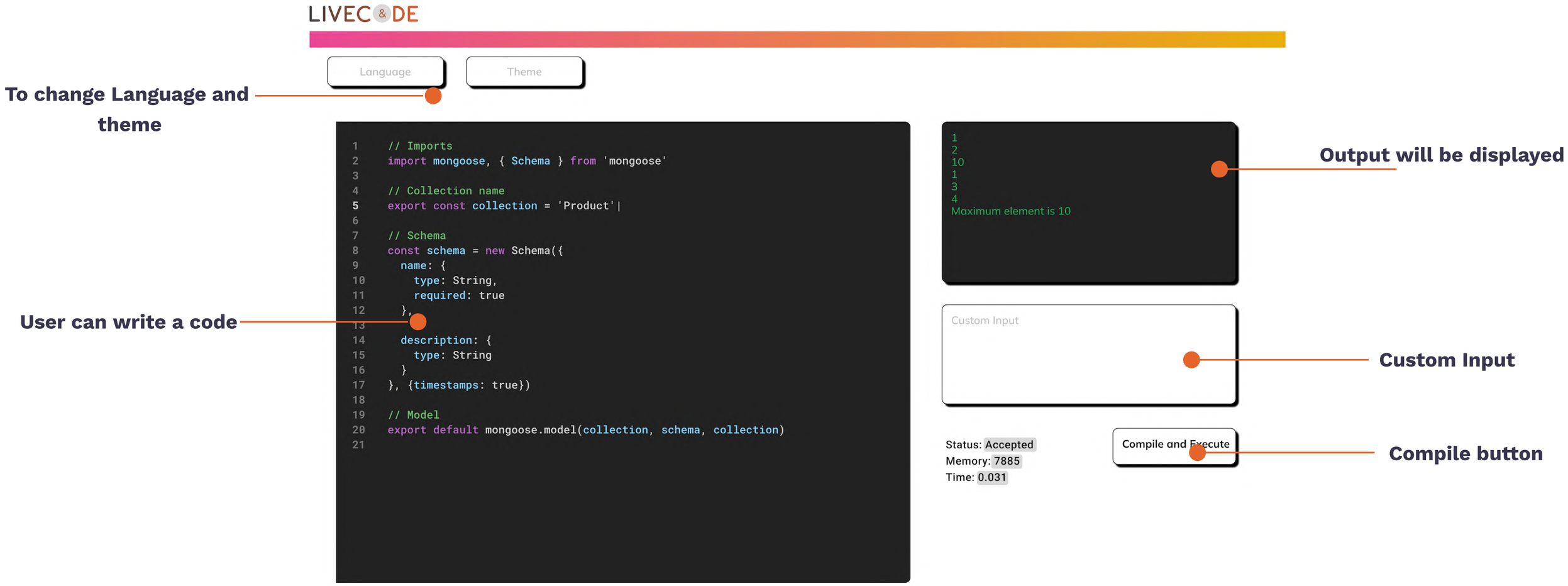
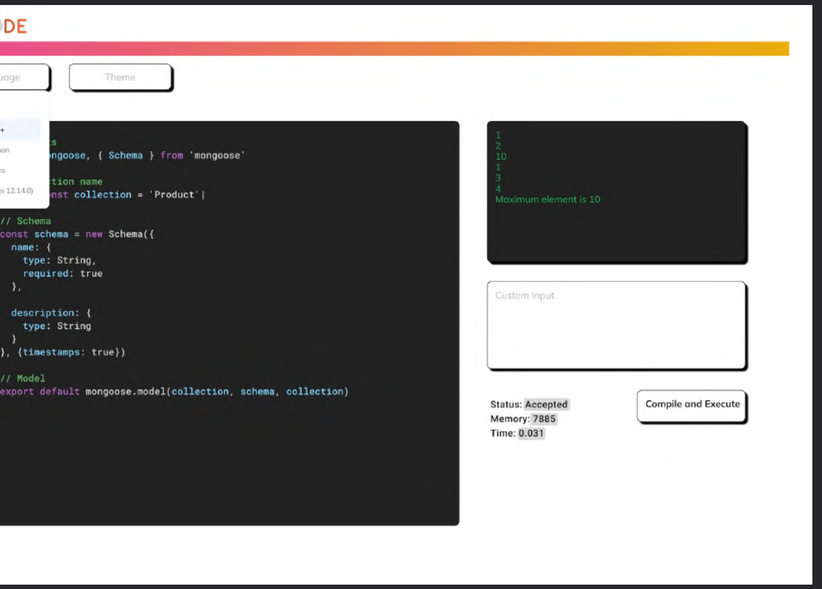
Editor




DE
Theme
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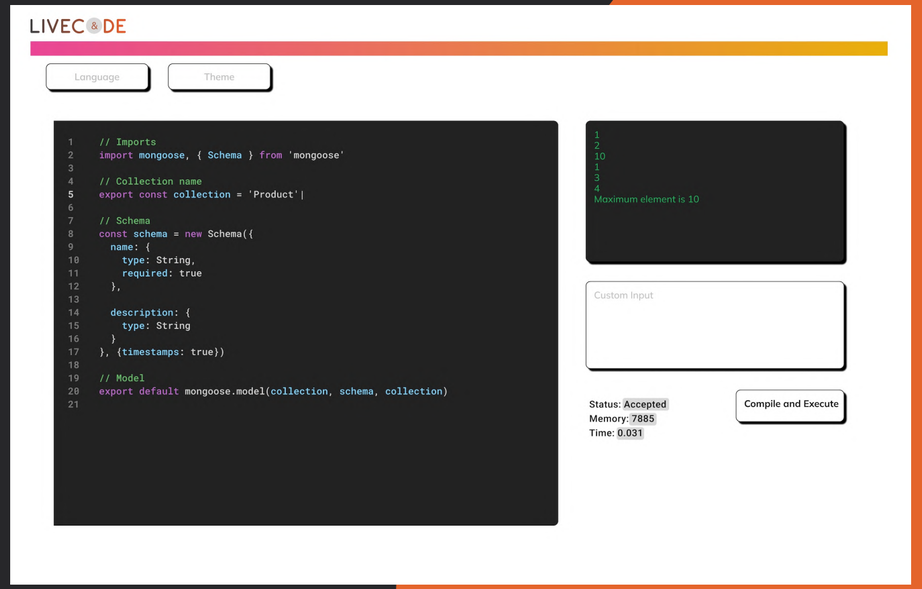
1
2
10
1
3
4
Maximum element is 10
Custom Input
Status: Accepted
Memory: 7885
Time: 0.031
Compile and Execute


LIVEC&DE
Language
Theme
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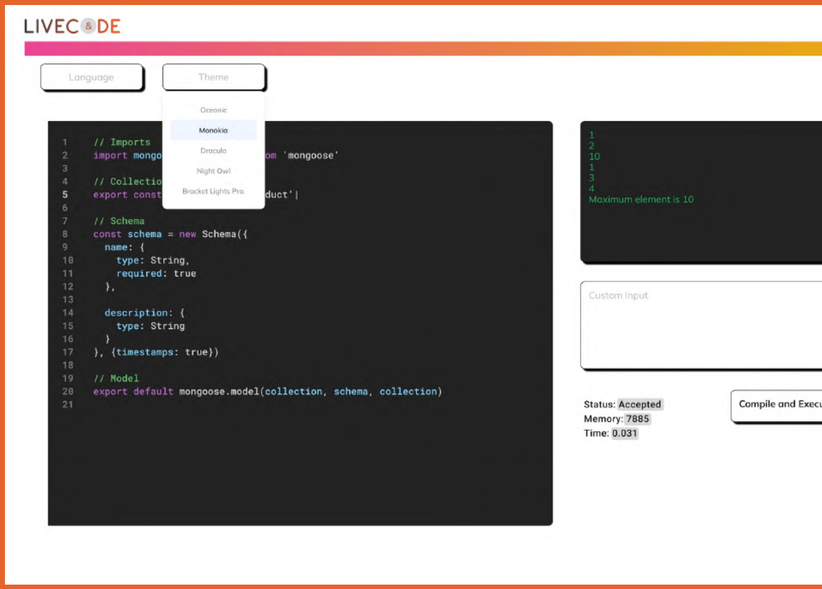
LIVEC&DE
Language
Theme
Oceanic
Monokia
Dracula
Night Owl
Bracket Lights Pro.
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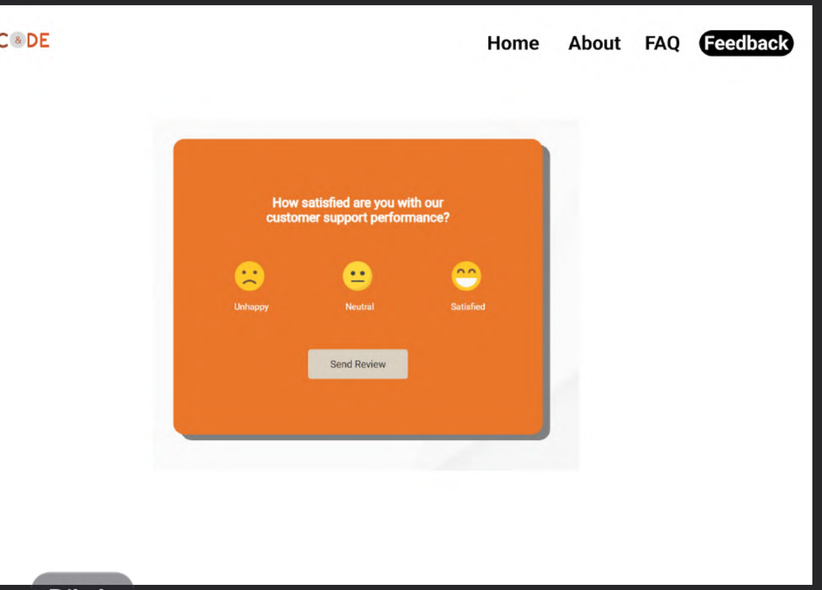
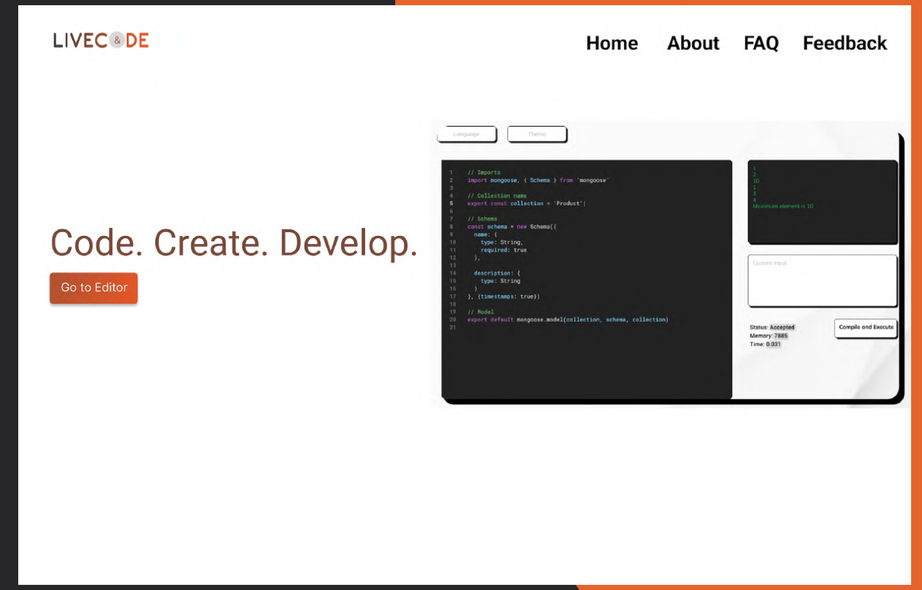
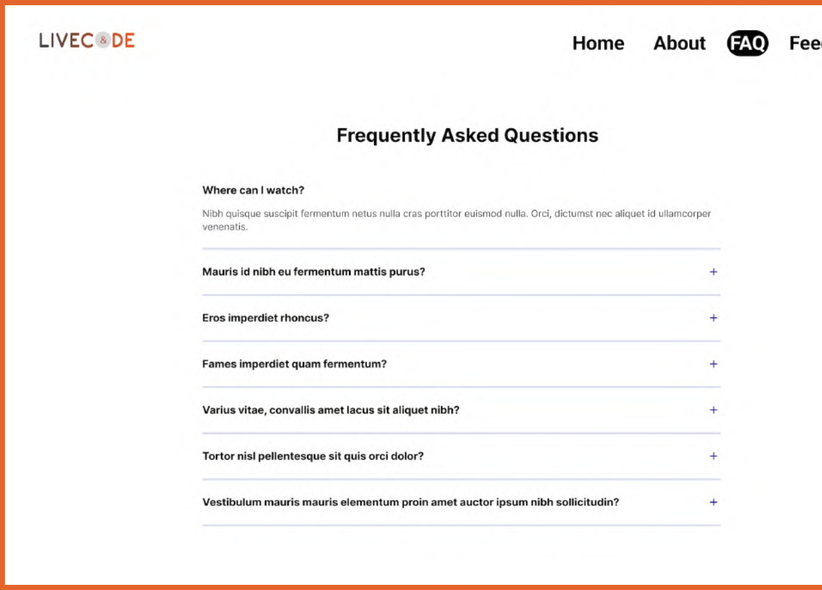
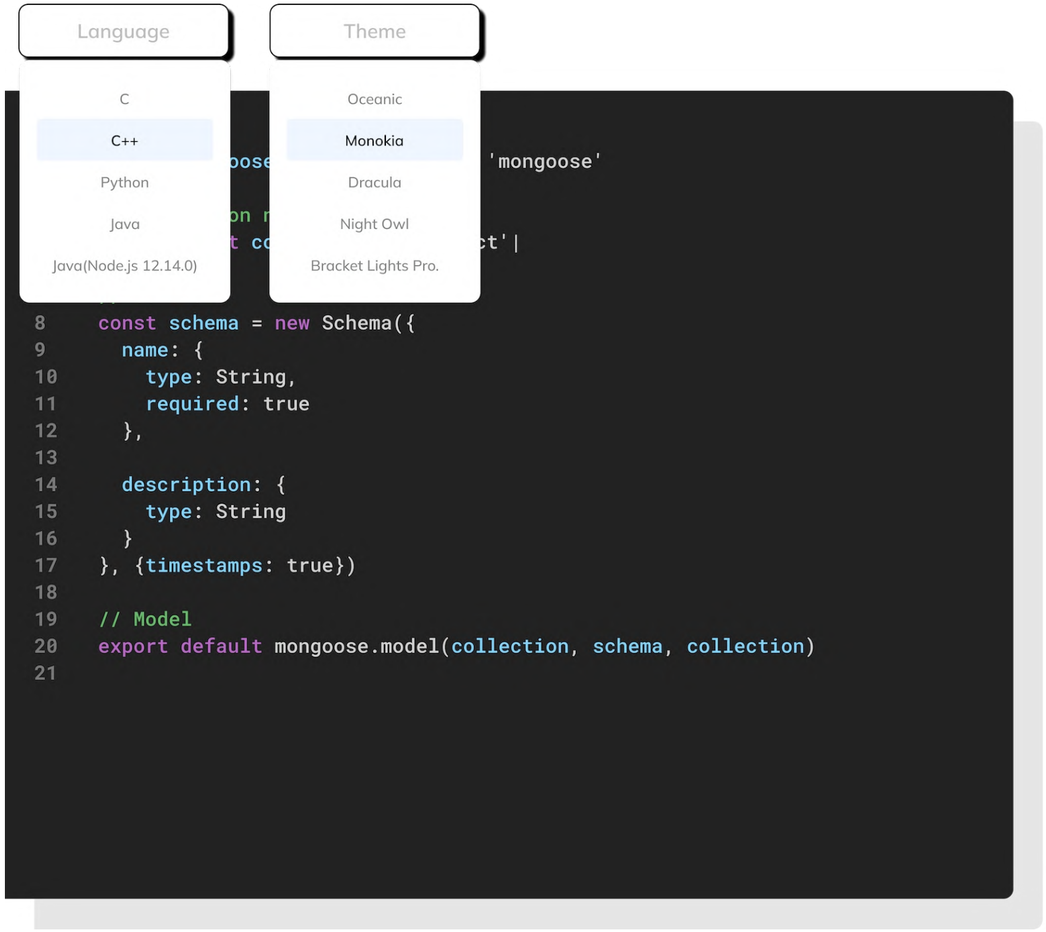
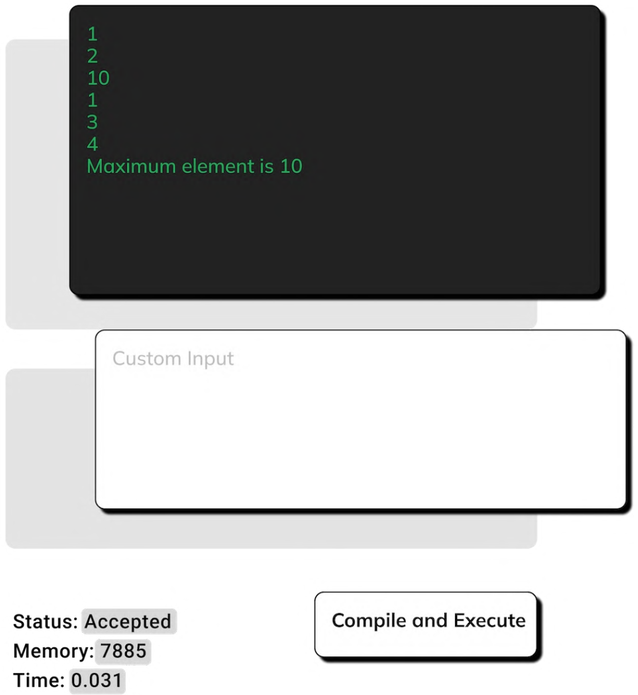

Home
About
FAQ
Feedback
How satisfied are you with our customer support performance?
Unhappy
Neutral
Satisfied
Send Review


LIVEC&DE
Home
About
FAQ
Feedback
Code. Create. Develop.
Go to Editor


LIVEC&DE
Home
About
FAQ
Frequently Asked Questions
Where can I watch?
Nibh quisque suscipit fermentum netus nulla cras porttitor euismod nulla. Orci, dictumst nec aliquet id ullamcorper venenatis.
Mauris id nibh eu fermentum mattis purus?
Eros imperdiet rhoncus?
Fames imperdiet quam fermentum?
Varius vitae, convallis amet lacus sit aliquet nibh?
Tortor nisl pellentesque sit quis orci dolor?
Vestibulum mauris mauris elementum proin amet auctor ipsum nibh sollicitudin?

Figma Link: https://www.figma.com/file/GVvDm2maSgA5ZcptaeU39F/LIVCODE?node-id=0%3A1





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landing_Page.html > html > body > div.container > div.navbar > nav

```html
<!DOCTYPE html>
<html>

<head>
    <title>LiveCode</title>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto">
</head>

<body>
    <div class="container">
        <div class="navbar">
            <nav>
                <img src="./logo.jpeg" class="logo">
                <ul>
                    <li><a href="./landing_Page.html">Home</a></li>
                    <li><a href="./about.html">About</a></li>
                    <li><a href="./faq.html">FAQ</a></li>
                    <li><a href="./feedback.html">Feedback</a></li>
                </ul>
            </nav>
        </div>
        <div class="content">
            <h1>Code. Create. Develop.</h1>
            <a href="" class="btn">Go to Editor</a>
        </div>
        <div>
            <img src="./img.png" class="image1">
        </div>

    </div>
</body>

</html>
```

faq.js > ...

```js
var faq = document.getElementsByClassName("faq-page");
var i;

for (i = 0; i < faq.length; i++) {
    faq[i].addEventListener("click", function () {
        this.classList.toggle("active");
        var body = this.nextElementSibling;
        if (body.style.display === "block") {
            body.style.display = "none";
        } else {
            body.style.display = "block";
        }
    });
}
```

style.css > .image1

```css
*{
    margin:0;
    padding:0;
    font-family: Roboto;
}
.container{
    height: 100vh;
    width: 100%;
    background-image: url(./bg.jpeg);
    background-position:center;
    background-size:cover;
    padding-left:5%;
    padding-right:5%;
    box-sizing:border-box;
    position:relative;
}
.navbar{
    width:100%;
    height: 15vh;

```

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Thank you

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