Frontend Documentation

Note that this documentation will change as more features are added, and the components are properly connected to the backend. Additionally, UI may undergo changes at any point in time.

Navigation Bar

The navigation bar located on the top of all pages on Code Next.

```
<div>
    <nav className="navbar navbar-expand-lg navbar-light ">
      <div className="container">
        <a className="navbar-brand" href="/">CodeNext</a>
        <button className="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavAltMarkup" aria-controls="na
          <span className="navbar-toggler-icon"></span>
        </button>
        <div className="collapse navbar-collapse justify-content-end" id="navbarNavAltMarkup">
          <div className="navbar-nav">
            <a className="nav-link active" aria-current="page" href="/Dashboard">Dashboard</a>
            <a className="nav-link active" aria-current="page" href="/PreQuiz">Pre-Quiz</a>
            <a className="nav-link active" aria-current="page" href="/Mockinterview">Mock Interview</a>
          </div>
        </div>
      </div>
    </nav>
  </div>
```

CodeNext   Dashboard Pre-Quiz Mock Interview

Leetcode Question Box

The container with the name of the question assigned, and a button to begin the question

If a question is already completed, the button will become disabled

```
<Card className="mt-4 QuestionBackground">
    <Card.Body>
        <Row className="d-flex align-items-center">
            <Col sm={10}>
                <Card.Title className="text-light fw-bold"><h2>{props.name}</h2></Card.Title>
                <Card.Text className="DescText">{props.desc}</Card.Text>
            </Col>
            <Col sm={2}>
            <a target="_blank" href={props.url} rel="noreferrer">
              <Button
                className= "QuestionButton"
                onClick={handleClick}>
                Code Next
              </Button>
            </a>
            </Col>
        </Row>
    </Card.Body>
  </Card>
```

Count Good Nodes in Binary Tree
medium   Code Next

Main Dashboard

The dashboard containing all the Leetcode questions assigned for the day. Also includes a user greeting and a navigation bar

```
<div>
        <NavBar/>
        <Container className="pt-5 pb-5">
        <h1 className="display-1">Hello! </h1>
        <h3>Here are your problems for today</h3>
        <p>Click on start to start a problem.
          Then come back to this page track progress.</p>
          {/* <QueryClientProvider client={ queryClient }>
            <Problems />
          </QueryClientProvider> */}
          <LeetQuestion name='Sample Question 1' desc='Sample Description' url='URL'/>
          <LeetQuestion name='Sample Question 2' desc='Sample Description' url='URL'/>
          <LeetQuestion name='Sample Question 3' desc='Sample Description' url='URL'/>
        </Container>
    </div>
```

CodeNext   Dashboard   Pre-Quiz   Mock Interview

Hello!

Here are your problems for today

Click on start to start a problem. Then come back to this page track progress.

Single Number	
easy	Code Next

Count Good Nodes in Binary Tree	
medium	Code Next

Container With Most Water	
medium	Code Next

Missing Number	
easy	Code Next

Landing Page

The landing page where user visits the base url of Code Next. This page displays general information about the site.

```
const cardInfo = [
      {title: "Tailored Plan", text:
          <ul style={{"font-size": "1rem", "line-height": "2rem"}} className="mx-auto">
              <li>Assessment to dictate concepts you need a better understanding.</li>
              <li>Personalized road map following the assessment.</li>
              <li>No need to wonder where to start.</li>
          </ul>
      },
      {title: "Distributed Practice", text:
          <ul style={{"font-size": "1rem", "line-height": "2rem"}} className="mx-auto">
              <li>Precision practice of selected questions.</li>
              <li>Distributed learning strategy to enhance your understanding of the concepts.</li>
              <li>Better Retention.</li>
          </ul>
      },
      {title: "Track Your Progress", text:
          <ul style={{"font-size": "1rem", "line-height": "2rem"}} className="mx-auto">
              <li>Manage and track your progress as you use our platform.</li>
              <li>See a visualization of your progress.</li>
```

```
            <li>Record key metrics like time taken and perceived difficulty.</li>
        </ul>
    },
];

const renderCard = (card, index) => {
    return (
        <Card style={{ width: '18rem', height: '20rem', margin: 'auto'}} key={index} className="box">
            <Card.Body>
                <Card.Title>{card.title}</Card.Title>
                <Card.Text className="mx-auto">
                    {card.text}
                </Card.Text>
            </Card.Body>
        </Card>
    );
};

return(


<div className="grid d-flex align-items-center">
        <h1 style={{textAlign: "center", "font-size": '48px'}}>CODE NEXT</h1>
        <h3 style={{textAlign: "center"}}>EVERYTHING YOU NEED TO EXCEL IN YOUR NEXT SOFTWARE INTERVIEW
            IS NOW MADE AVAILABLE THROUGH CODE-NEXT.
        </h3>

    {cardInfo.map(renderCard)}


    <div className="mx-auto">
        <Link to="/register" style={{'padding-right': '8rem'}}>
            <Button variant="info" className="align-middle">Register Now!</Button>
        </Link>

        <Link to="/login">
            <Button variant="info" className="align-middle">Sign in!</Button>
        </Link>
    </div>


</div>


)
```

About   Login   Register

Code Next

Everything you need to excel in your next software interview is now made available through code-next.

Tailored Plan	Distributed Practice	Track Your Progress
• Assessment to dictate concepts you need a better understanding. • Personalized road map following the assessment. • No need to wonder where to start.	• Precision practice of selected questions. • Distributed learning strategy to enhance your understanding of the concepts. • Better Retention.	• Manage and track your progress as you use our platform. • See a visualization of your progress. • Record key metrics like time taken and perceived difficulty.

Register Now!

Login Page

The login page allows previous users to login to their account.

```
<div className="auth-form-container">
        <h2>Log in</h2>

        <form className="login-form" onSubmit={handleSubmit}>
            <label htmlFor="username">username</label>

            <input value={username} onChange={(e) => setUsername(e.target.value)}
                type="text"
                placeholder="enter your username here"
                id="email"
                name="email">
            </input>

            <label htmlFor="password">password</label>
            <input value={password} onChange={(e) => setPassword(e.target.value)}
                type="password"
                placeholder="enter your password here"
                id="password"
                name="password">
            </input>

            <button
                id="login-button"
                type="button"
                onClick={handleSubmit}>log in</button>
        </form>

        <Link to="/Register" className="link-button" onClick={() =>props.onFormSwitch('register')}>
            don't have an account? register here.
        </Link>

    </div>
```

CodeNext   About   Login   Register

Log in

Username

Enter your username here

Password

Enter your password here

Log in

Register Page

The register page allows new users to create an account with Code Next

```
<div className="auth-form-container">
        <h2>Register</h2>

        <form className="register-form" onSubmit={handleSubmit}>

            <label>username</label>
            <input value={username} onChange={(e) => setUserName(e.target.value)}
                type="name"
                name="name"
                id="name"
                placeholder="enter your username here">
            </input>

            <label htmlFor="email">email</label>
            <input value={email} onChange={(e) => setEmail(e.target.value)}
                type="email"
                placeholder="enter your email here"
                id="email"
```

```
                name="email">
        </input>

        <label htmlFor="password">password</label>

        <input value={pass} onChange={(e) => setPass(e.target.value)}
            type="password"
            placeholder="enter your password here"
            id="password"
            name="password">
        </input>
        <button id="register-button">register</button>
    </form>

    <Link to="/login" className="link-button" onClick={() =>props.onFormSwitch('login')}>
        already have an account? login here.
    </Link>
</div>
```

Register

Username

Enter your username here

Email

Enter your email here

Password

Enter your password here

register

Pre Quiz Page

The Pre Quiz page allows users to answer questions in order for Code Now to understand their progress and skill level as coders.

```
<div>
        <NavBar/>
        <Container className="pt-5 pb-5">
        <h1 className="display-1">Welcome to the Pre-Quiz! </h1>
        <h3>We will determine what problems to assign to you using this quiz</h3>
        <p>Click on start to start a problem.
          Please answer these questions to the best of your ability.</p>
          <QuizQuestion name="Problem 1" desc="Problem Description"/>
          <QuizQuestion name="Problem 3" desc="Problem Description"/>
          <QuizQuestion name="Problem 3" desc="Problem Description"/>
        </Container>
        </div>
```

Welcome to the Pre-Quiz!

We will determine what problems to assign to you using this quiz

Click on start to start a problem. Please answer these questions to the best of your ability.

Last Stone Weight easy	Code Next

Missing Number easy	Code Next

Binary Search easy	Code Next

Pre Quiz Problem Box

The container with the name of the question assigned, and a button to begin the question

```
<Card className="mt-4">
        <Card.Body>
            <Row className="d-flex align-items-center">
                <Col className="text-center" sm={10}>
                    <Card.Title className="text-dark fw-bold"><h2>{props.name}</h2></Card.Title>
                    <Card.Text className="DescText text-dark">{props.desc}</Card.Text>
                </Col>
                <Col sm={2}>
                <a target="_blank" href={props.url} rel="noreferrer">
                  <Button
                    className= "QuestionButton"
                   >
                    Code Next
                  </Button>
                </a>
                </Col>
            </Row>
        </Card.Body>
    </Card>
```
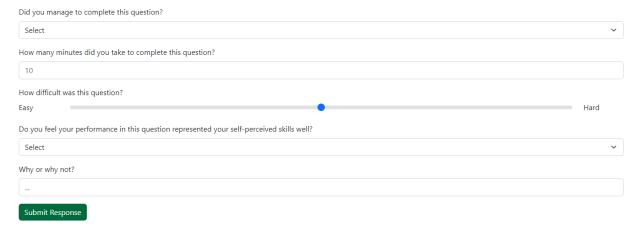
Single Number easy	Code Next

Post Pre Quiz Information Form

The survey to that users will complete in order for our site to evaluate your skill level

```
<Container className="pt-5 pb-5">
          <h1>Post-Question Survey</h1>

          <h4>Welcome back from your question! Now, please answer these questions so we can better tailor your experience on the app.</h4

          <form onSubmit={handleSubmit}>
            <label htmlFor="difficulty">How difficult was the question?  </label>
            <select value={difficulty} onChange={handleDifficulty}>
              <option value="very-easy">Very easy</option>
```

```
        <option value="easy">Easy</option>
        <option value="medium">Medium</option>
        <option value="hard">Hard</option>
        <option value="very-hard">Very hard</option>
    </select>
    <br></br>
    <label htmlFor="completion">Did you complete the question?  </label>
    <select value={completion} onChange={handleCompletion}>
        <option value="qcomplete">Yes</option>
        <option value="qnotcomplete">No</option>
    </select>
    <br></br>
    <label htmlFor="duration">If you completed the question, how long did it take you?  </label>
    <input type="number" min='1'></input>
    <select value={duration} onChange={handleDuration}>
        <option value="seconds">seconds</option>
        <option value="minutes">minutes</option>
        <option value="hours">hours</option>
    </select>
    <br></br>


    <button
        id="login-button"
        type="button"
        onClick={handleSubmit}>Submit</button>
    </form>
</Container>
```

Have you finished?

Once you have attempted the given problem, please fill out this survey to better tailor your user experience in Code Next.

Did you manage to complete this question?

| Select | ⌄ |

How many minutes did you take to complete this question?

| 10 |

How difficult was this question?

Easy ●━━━━━━━━━━━━━━━━━━━━━━━━━ Hard

Do you feel your performance in this question represented your self-perceived skills well?

| Select | ⌄ |

Why or why not?

| … |

Submit Response

Post Question Survey

The survey to that users will complete in order for our site to evaluate your skill level

```
<Card>
                <section className='Main'>
                <div>
                    <span className='home-page'></span>
                </div>
                <h1>Practice the Question!</h1>
                <p>
                    Get ready to tackle some mind-bending questions and unleash your coding potential!
                    Before you start, here are a few things you should know:
                </p>
                <ul>
                    <li>Read the instructions and problem statement carefully for the question.</li>
                    <li>You can use any programming language you are comfortable with to solve the question.</li>
                    <li>There is no time limit, so take your time and think through your solution</li>
                    <li>Once you have completed a question, come back to this page and stop the timer! You will be promted with a f
                </ul>
                </section>
```

```
        </Card>}
        {active === "SecondCard" &&
        <Card>
            <section className='Question'>
                <h1>Are you done?</h1>
                <p>
                    If you have successfully attempted the given problem,
                    It is now time to go over a few questions to track your progress!
                </p>
            </section>
            <>

            <Form className='question-input'>
                <form>
                    <div className='form'>
                        <label className='Q1'>
                            Did you manage to complete this question?
                            <select value={selectedOption} onChange={handleChange} required>
                                <option value=""> --- </option>
                                <option value="option1">Yes</option>
                                <option value="option2">No</option>
                            </select>
                        </label>
                        <br></br>
                        <label className='Q2'>
                            How long did you take to complete the question?
                            <input type="text" id="text" name="text" placeholder='ex. 10 mins' required/>
                        </label>
                        <br></br>
                        <label className='Q3'>
                            How dificult was the question from the range 1-5?
                                <label htmlFor="customRange2" className="form-label"></label>
                                <input type="range" className="form-range" min="0" max="5" id="customRange2" required/>
                        </label>
                        <br></br>
                        <button>Done</button>
                    </div>
                </form>
            </Form>
            </>
        </Card>}
```

Are you done?

If you have successfully attempted the given problem, It is now time to go over a few questions to track your progress!

Did you manage to complete this question?

| Select   ⌄ |

How long did you take to complete the question? (Minutes)

| 10 |

How dificult was this question for you?

Easy   ●   Hard

[Done]

Forgetting Curve Information Card

A card to explain to the user what the Forgetting curve is, and how the website will combat this.

```
<div>
    <Navbar />
    <div className="container d-flex justify-content-center mt-5">
        <Card bg="light">
            <Card.Body>
                <Card.Title className="text-center" style={{ fontSize: '1.4rem', color: 'black'}}>What is Spaced Repetition?</Card.Title>
                    <Card.Text className="text-center" style={{ fontSize: '1.2rem', color: 'black' }}>
                        Spaced repetition is a learning technique that involves reviewing
                        material at increasing intervals of time. By incorporating spaced
                        repetition into CodeNext, we aim to help our users retain information
                        and develop a deeper understanding of the material. By practicing
```

```
                    questions multiple times, users will be less likely to forget the information
                    they have learned and will avoid the Forgetting Curve phenomenon. This will ultimately lead to improved performance
                    and increased confidence in their abilities. Our commitment to incorporating
                    this technique into CodeNext highlights our dedication to providing our
                    users with a high-quality learning experience that is both effective and efficient.
                </Card.Text>
                <Card.Title className="text-center" style={{ fontSize: '1.4rem', color: 'black'}}>How does CodeNext utilize Spaced Repetition?<
                <Card.Text className="text-center" style={{ fontSize: '1.2rem', color: 'black' }}>
                    CodeNext utilizes the spaced repetition strategy by sending notifications to users,
                    asking them to repeat the coding questions they have previously attempted.
                    This helps the user to retain knowledge, improve their understanding of coding concepts,
                    and ultimately become better coders. By incorporating spaced repetition into our platform,
                    we are committed to providing the best possible learning experience for our users.
                </Card.Text>
            </Card.Body>
        </Card>
    </div>
    <div className="d-flex justify-content-center mt-5">
        <h5>So what are you waiting for?</h5>
    </div>
    <div className="d-flex justify-content-center">
        <Link to="/register">
            <button className="btn btn-primary pe-4 ps-4"> Register Now! </button>
        </Link>
    </div>
</div>
</div>
```

What is Spaced Repetition?

Spaced repetition is a learning technique that involves reviewing material at increasing intervals of time. By incorporating spaced repetition into CodeNext, we aim to help our users retain information and develop a deeper understanding of the material. By practicing questions multiple times, users will be less likely to forget the information they have learned and will avoid the Forgetting Curve phenomenon. This will ultimately lead to improved performance and increased confidence in their abilities. Our commitment to incorporating this technique into CodeNext highlights our dedication to providing our users with a high-quality learning experience that is both effective and efficient.

How does CodeNext utilize Spaced Repetition?

CodeNext utilizes the spaced repetition strategy by sending notifications to users, asking them to repeat the coding questions they have previously attempted. This helps the user to retain knowledge, improve their understanding of coding concepts, and ultimately become better coders. By incorporating spaced repetition into our platform, we are committed to providing the best possible learning experience for our users.

So what are you waiting for?

Register Now!