



Final Design Presentation

```
<p> The Critter </p>
```



HELLO! We're

```
<h2>Code Critiquer</h2>
```

Frontend Dev

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Backend Dev

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01 System and Environment

`<h2>Environment Type: Educational/Instructional</h2>`

Our Program Environment is instructional and is built help users improve their coding skills and find anti patterns such as errors, bugs, and exceptions that break in their code.

Description of our **USERS.**

Novice Programmer

Users with less experience are more likely to encounter problems caused by common

anti-patterns

Language Learner

Users working in unfamiliar languages or environments are more likely to encounter problems caused by common anti-patterns

Programming tutors

USers trying to clean or optimize their code can benefit from resolving common anti-patterns or implementing efficient programming patterns

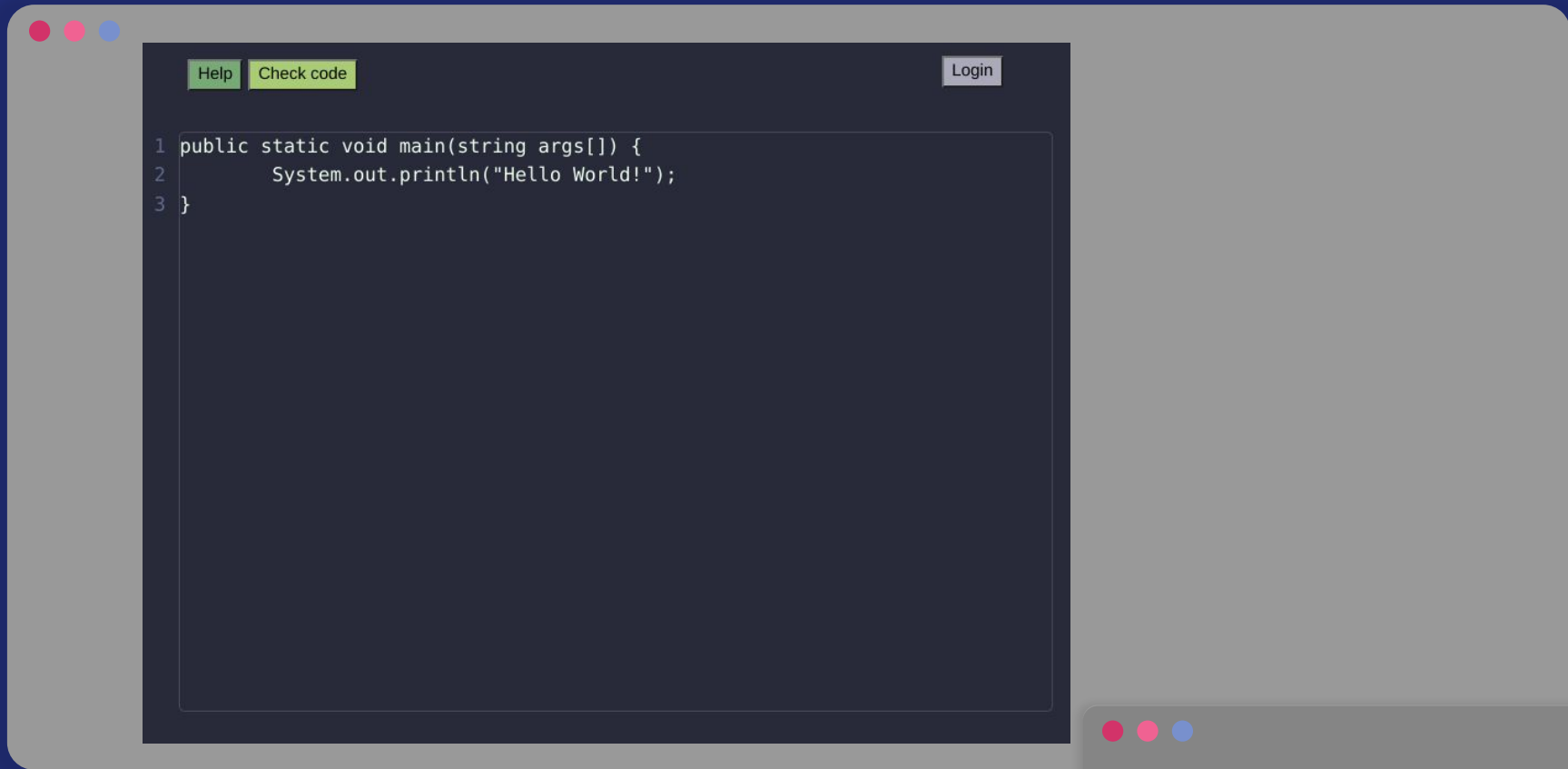



Our

Implementati

on

This is where you section ends. Duplicate this set of slides as many times you need to go over all your sections.

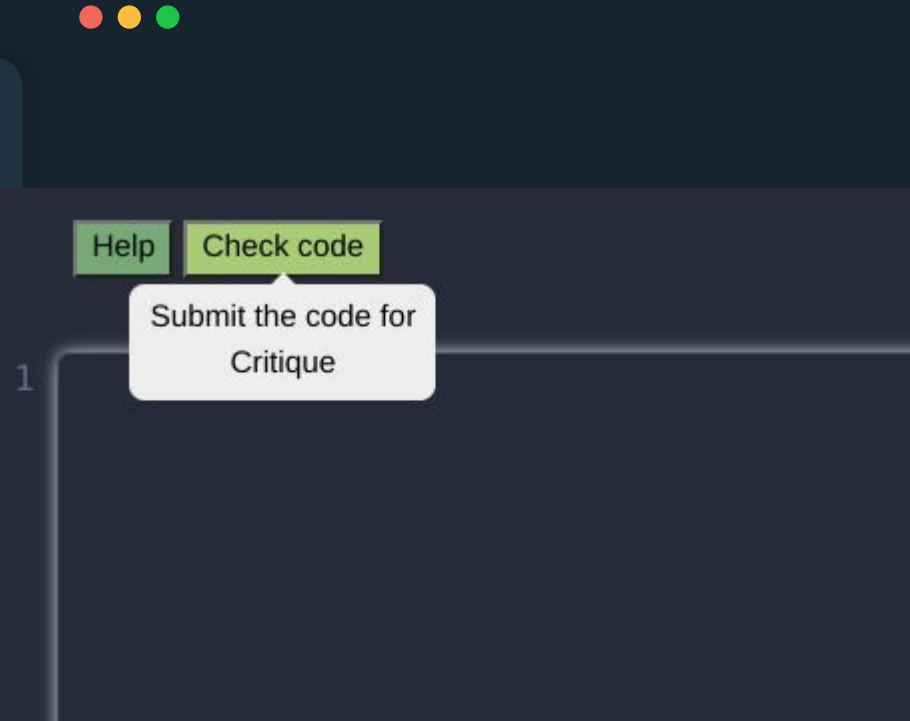


**Demo of our app design**

Instructional Content.

What the app will teach users what an anti pattern is and what kind of solutions could be used to avoid the anti patterns from showing up.

Help modal, welcome dialog, tools tips, etc.



Design of Future Implementation

Code Critic

Check for
Anti-patterns

File
Submission

Welcome, Guest

Log in

Start typing, paste, or use our *File Submission* option

Choose a File

Choose File

Example.java

Upload Selected File



← User Log in

Username:

Password:

Register

Log in

← Code Critic

Download Critique

Welcome, Guest

Log in

```
01 public class Example {
02
03     private int x;
04     private boolean isY;
05     private int C = 45;
```

Line 5: field should be marked final. (042)

```
06
07     public Example() {
08         this.x = 55;
09         this.isY = x < C;
10     }
11 }
```

Code Critic

Welcome, User2

Log out

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Feb 3, 2023 - 13:22:31

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11 }
```

Looks Good! 🍌

Feb 3, 2023 - 13:30:05

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Usability CONCERNS.



Simplified UI Elements

prioritize displaying critical code errors and anti-patterns in a clear and concise manner

Efficient Processing

Optimizing the app's performance to handle parsing, critiquing, and storing code efficiently

Constructive Feedback Loop

Establishing effective mechanisms for providing feedback to novice programmers on their code critiques, promoting learning and skill development in a supportive environment.

Intuitive Error Parsing

Ensuring that the parser's error messages are clear and understandable to novice programmers

Current State of the app



- Successfully compiled the Java code critiquer app alongside our web app
- Configured and generated MariaDB database for the Java app, began integrating with Gradle
- Created a barebones mock implementation of the app on the frontend
- Began implementation of Spring Security on the frontend
- Began styling to match prototypes from previous presentation



FUTURE Plan

- Finish integrating existing domain classes and modify them to meet the needs of our app, specifically classes conflicting with Spring Security (User)
- Configure Gradle to launch run the Java code critiquer app and database alongside our web app
- Integrate web app frontend with backend and add functionality to mock components - buttons, etc.
- Begin working on controllers that will accept code from the frontend, feed it into the Java app
- More styling updates



**THANK
YOU!**

Do you have any
questions?