Digital Portfolio

Name:*G.JEYAVARSHINI*

*REGISTER NO AND NMID:*unm110222401046
30A3207A8827CD09D7C4D0F61EBD6515

DEPARTMENT:II BSC COMPUTER SCIENCE

COLLEGE:DRBCCC HINDHU COLLEGE UNIVERSITY OF MADRAS

PROJECT TITLE

Interactive using digital portfolio for front end development

AGENDA

1. **Problem Statement**
2. **Project Overview**
3. **End Users**
4. **Tools and Technologies**
5. **Portfolio design and Layout**
6. **Features and Functionality**
7. **Results and Screenshots**
8. **Conclusion**
9. **Github Link**
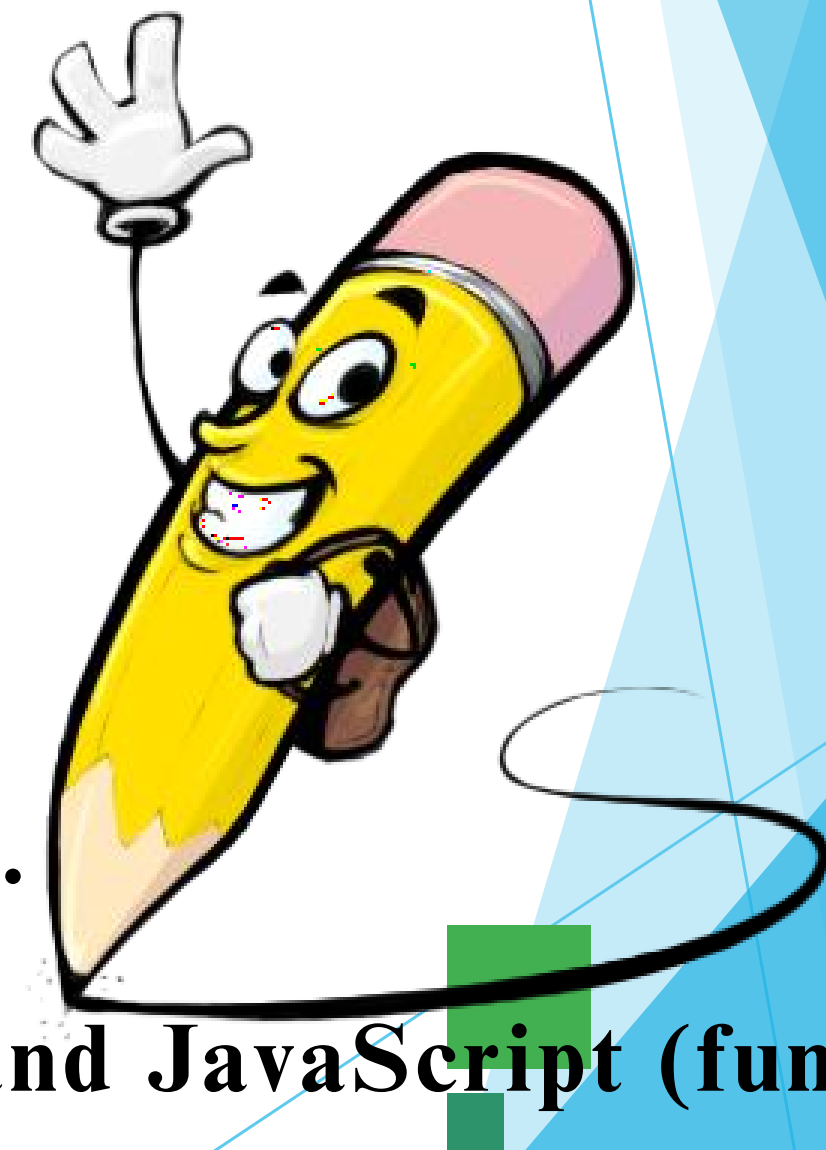
PROBLEM STATEMENT

1.Users need a secure and simple way to unlock devices.

2.Text passwords can be forgotten or guessed easily.

3.A pattern lock offers a faster and more user-friendly alternative

4.The system should provide a 3×3 grid of dots for input.

PROJECT OVERVIEW

1. The project is a pattern lock system like Android phones.

2. It shows a 3×3 grid of dots for the user.

3. User must draw a pattern to unlock the screen.

4. The correct pattern is 1 → 2 → 3.

5. If the pattern is correct → shows Unlocked.

6. If the pattern is wrong → shows Wrong Pattern.

7. Made using HTML (structure), CSS (design), and JavaScript (functionality).

WHO ARE THE END USERS?

- **Smartphone / Tablet Users → People who use a lock screen to secure their device**

- **Web Application Users → Anyone accessing a website or app that requires a simple authentication method**

- **Students / Learners → Beginners learning HTML, CSS, and JavaScript through this mini project.**

- **Developers → Programmers who want to integrate a basic lock screen feature into their apps.**

TOOLS AND TECHNIQUES

- **HTML → To create the structure of the lock screen (dots, text, buttons).**

- **CSS → To design and style the UI (layout, colors, animations).**

- **JavaScript → To add functionality (detect pattern, check correctness).**

POTFOLIO DESIGN

1.3×3 dot grid like mobile lock screen.

2.Uses HTML (structure), CSS (style), JS (functionality).

3.User-friendly and responsive.

Layout

1.Description – Short info about the project.

2.Output Section – Lock screen (icon, text, dots, emergency button).

3.Code/Links – View code or demo.

FEATURES
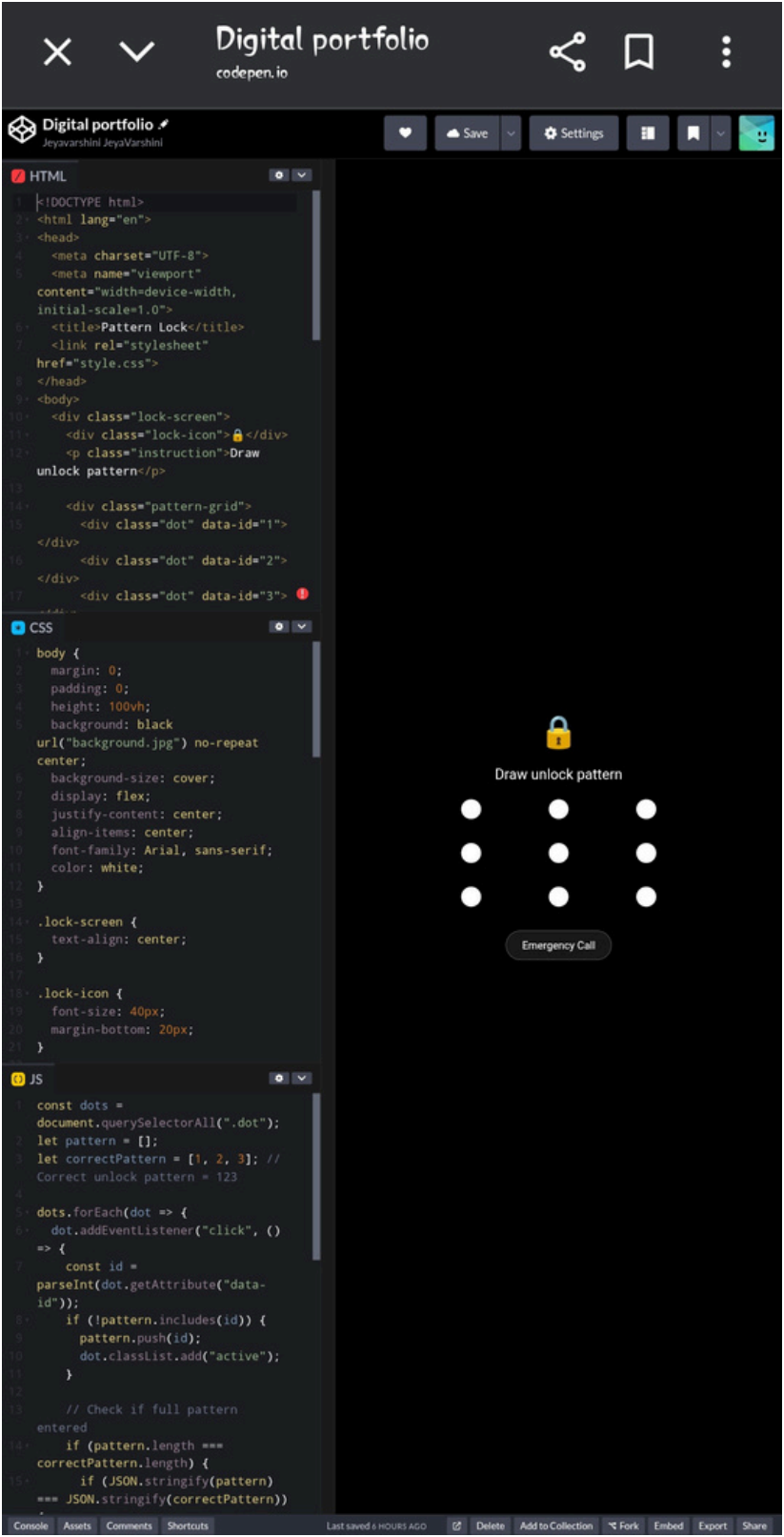
1. 3×3 grid of dots for pattern lock.

2. Predefined correct pattern (1 → 2 → 3).

3. Visual feedback when dots are selected.

FUNCTIONALITY

1. If correct → shows "Unlocked ✅".

2. If wrong → shows "Wrong Pattern ❌" and resets.

RESULTS AND SCREENSHOTS

CONCLUSION

The Pattern Lock program provides a simple and secure way to unlock using a 3×3 grid. It validates the correct pattern (1-2-3) and gives clear feedback, showing the use of HTML, CSS, and JavaScript effectively.