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✨ PhishSim Dashboard Project Report ✨

📌 Introduction

PhishSim is a web-based **phishing email simulation and analysis dashboard** designed to help users detect suspicious emails and simulate phishing campaigns.
It features an interactive UI, visualization charts 📊 , and a **dynamic animated sparkle background** ✨ that responds to mouse movements 🖱️ , enhancing the user experience.

📝 Abstract

The project aims to **analyze emails**, **simulate phishing campaigns**, and **visualize phishing statistics** in real-time. Users can:

- 📤 Upload emails or paste content for instant phishing analysis
- 🕵️ Run demo phishing analyses
- 📧 Simulate email campaigns and view results
- 📈 Explore trends via phishing statistics charts

The **sparkle background effect** ✨ adds a modern and interactive touch, making the dashboard visually appealing while maintaining full functionality.

🛠️ Tools Used

- **Frontend:** HTML5, CSS3, JavaScript 💻
- **UI Libraries & Fonts:**
  - Chart.js for interactive charts 📊
  - Google Fonts for typography ✨
- **Animations:**
  - Canvas API for sparkles and mouse interactions 🖱️
  - CSS animations for hover effects and tab transitions
- **Development Tools:** VS Code, Live Server

⚙️ Steps Involved in Building the Project

1. **🗂️ Project Setup**
   - Create HTML structure with header, tabs, and container sections
   - Include Google Fonts and Chart.js library

2. **🎨 UI Design**
   - Interactive tabs: Email Scan 📤 , Demo Analysis 🕵️ , Campaign Simulation 📧 , Phishing Stats 📊
   - Upload boxes, input fields, buttons, and cards designed with responsive CSS

3. **🔍 Email Analysis Implementation**
   - Upload or paste email content

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     o   Simulated phishing analysis using keyword detection ⚠️

     o   Display results dynamically: score, verdict, confidence

4.   📷 **Campaign Simulation**

     o   Input sender, recipients, subject, and message

     o   Generate pie charts for campaign results using Chart.js

5.   📊 **Phishing Stats Visualization**

     o   Line charts for phishing trends over years

     o   Custom colors for visibility on dark background

6.   ✨ **Sparkle Background Integration**

     o   Use <canvas> to create moving particles

     o   Mouse interaction: sparkles follow cursor 🖱️

     o   Particle glow and fade-out for smooth animation

7.   🔄 **Responsiveness & Optimization**

     o   Ensure mobile and desktop compatibility

     o   Optimize canvas redraw for performance

✅ Conclusion

PhishSim successfully combines **email phishing simulation** and **real-time analytics** in an **interactive, visually appealing dashboard**.

- Demonstrates practical **frontend skills** 🖥️, **dynamic visualizations** 📊, and creative **UI/UX design** 🎨

- Sparkle background adds a **modern and engaging feel** ✨

- Suitable for **educational purposes** and **demo presentations** 🏫

Screenshots :