App: Windows XP Emulator: Phase #1

Date: May 14th, 2025
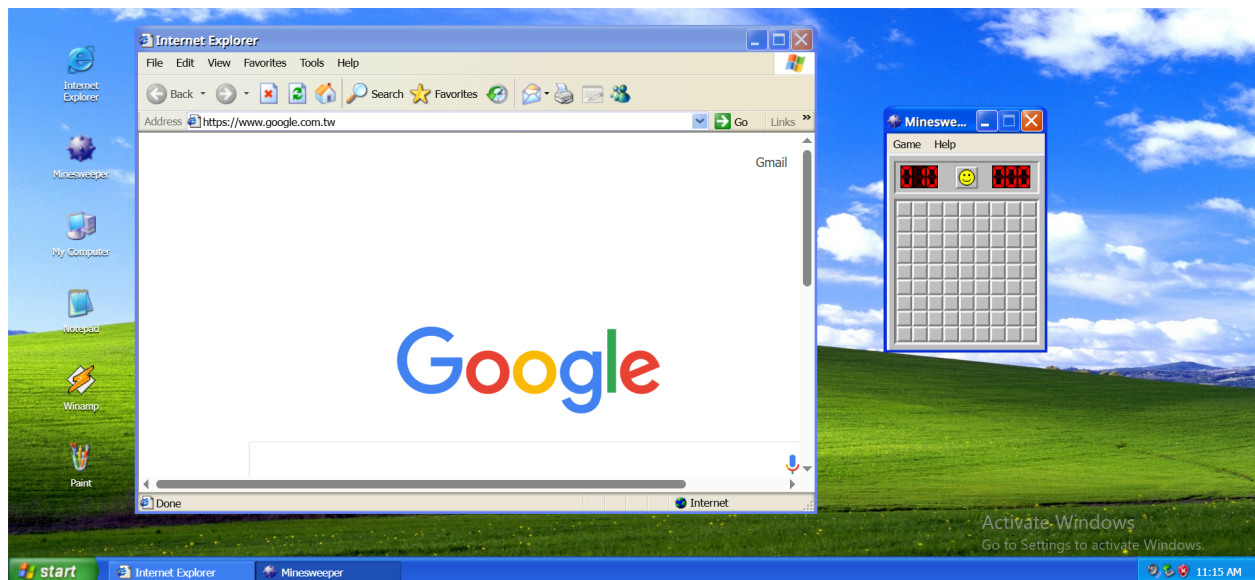Domain: https://dhruvyadav.ca/win-xp.emulator
GitHub: https://github.com/BUSY-LOOPING/win-xp-emulator

Application Purpose:

This application is a browser-based emulator of Windows XP. It aims to replicate the nostalgic user interface and interaction of the classic Windows XP operating system using only front-end web technologies (HTML, CSS, and JavaScript).

Users will be able to experience elements of the Windows XP desktop such as opening and closing windows, dragging items, interacting with start menu, simulated loading screens, and system sounds — all within a web browser.

Front-End:

The front-end will simulate the following Windows XP features:
- Boot screen animation and desktop launch
- Fully styled desktop UI resembling Windows XP (taskbar, icons, start menu, etc.)
- Functional "Start" menu with fake entries (e.g., My Computer, Paint, Notepad)
- Movable, resizable windows with fake content
- Taskbar updating to reflect open windows
- Simulated system sounds using JavaScript audio (e.g., startup, error, click)
- Responsive layout (desktop-only for Phase #1, no mobile support)

- All state and interactivity handled with vanilla JS (no frameworks)

Back-End:

- None — this is a purely front-end project. All data and state management are handled in-browser. No authentication or persistent storage is included in MVP.
- For the next phases a simple node js sever can be used for real time file storage and retrieval and simple command prompt simulations.

API:

No API is included in this phase. All behavior is implemented client-side using JavaScript.