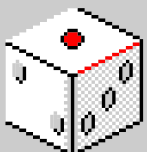
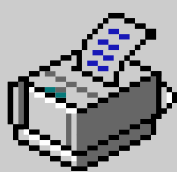
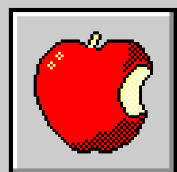


Laptop support system



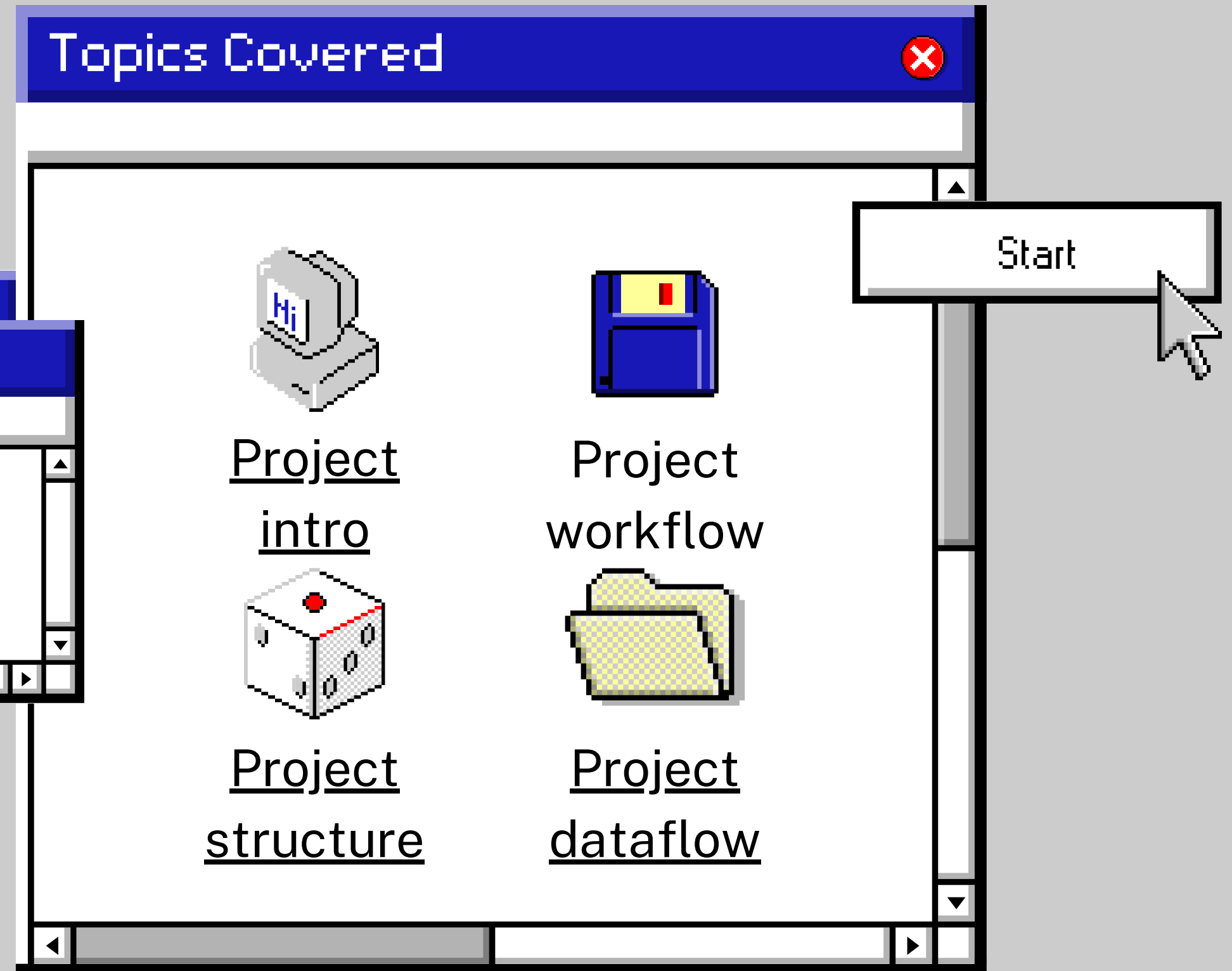
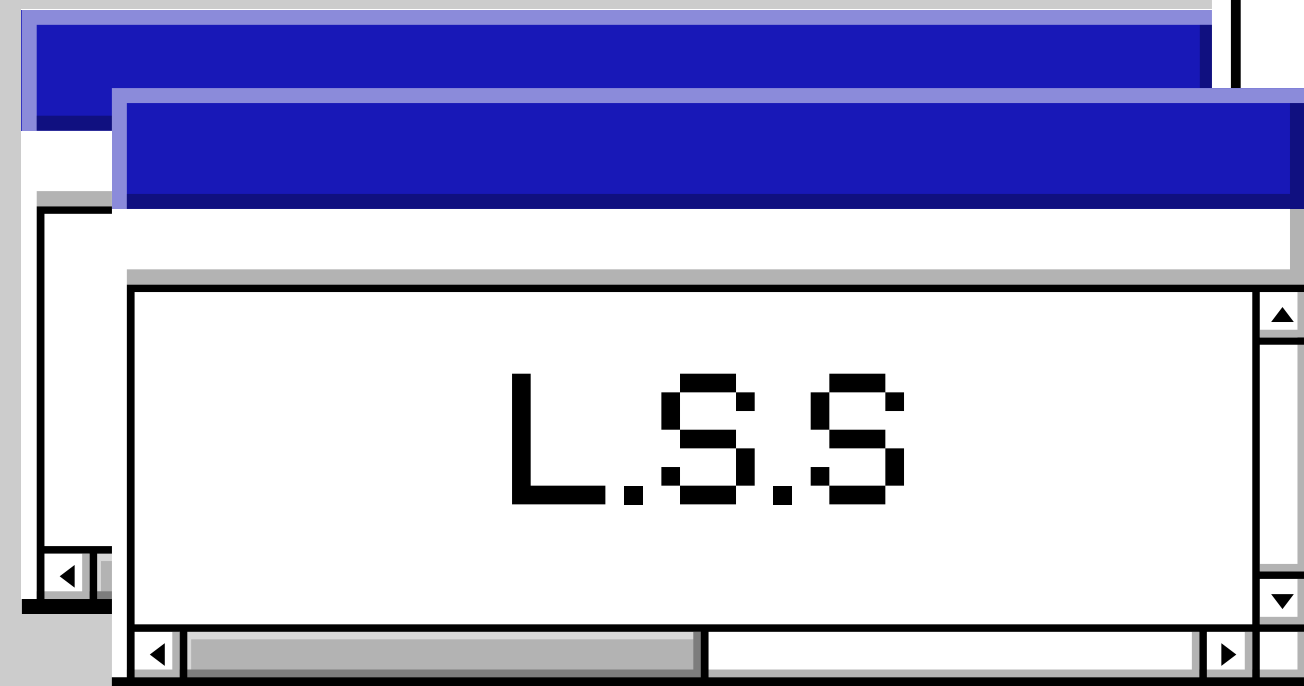
Supporting PCs in
efficient ways



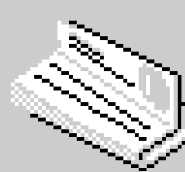
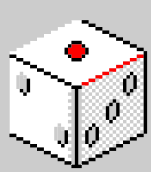
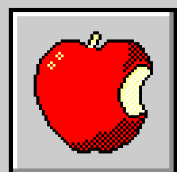
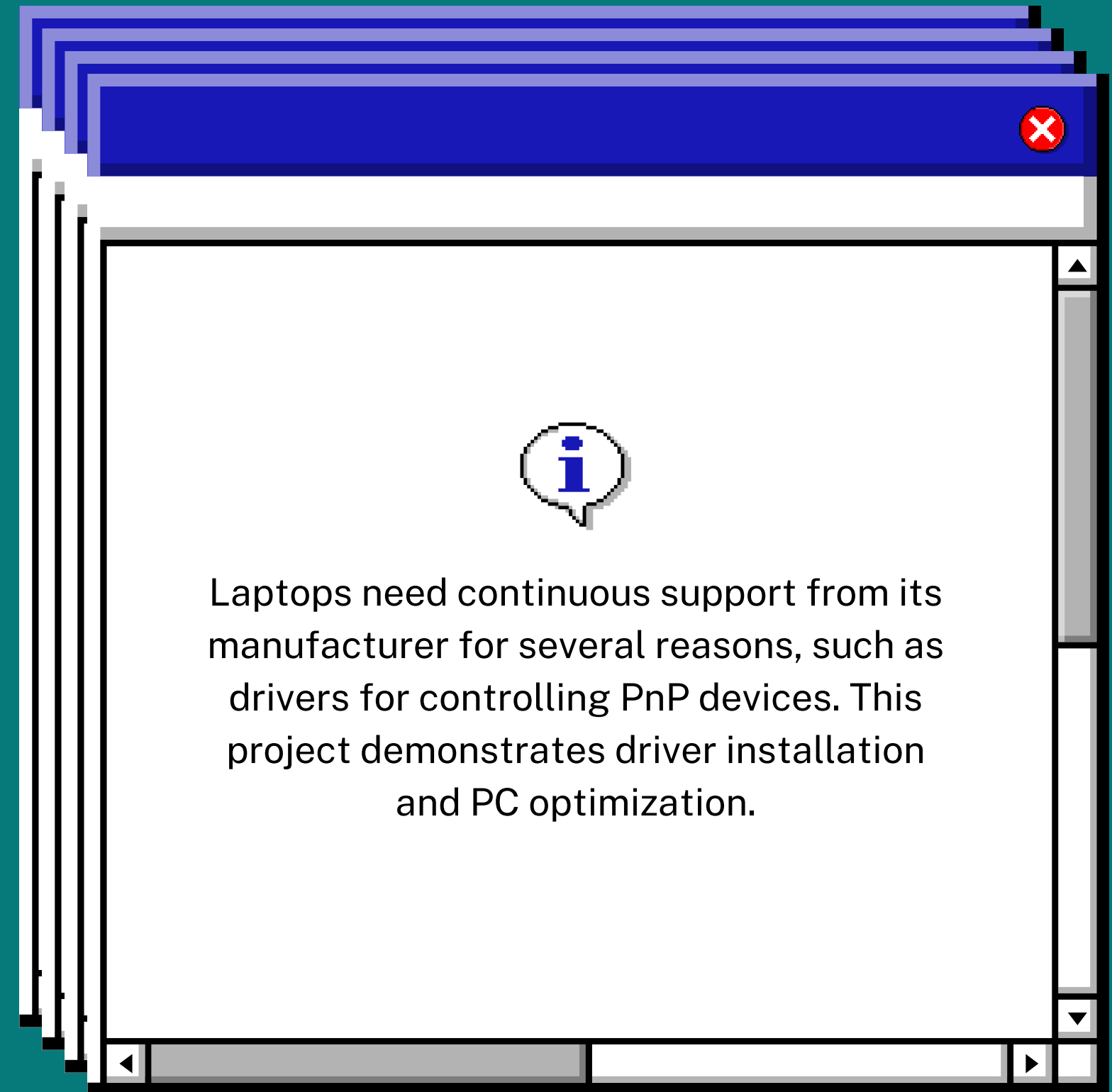
8:05P
M

Tip: Use links to go to a different page inside your presentation.

How: Highlight text, click on the link symbol on the toolbar, and select the page in your presentation you want to connect.



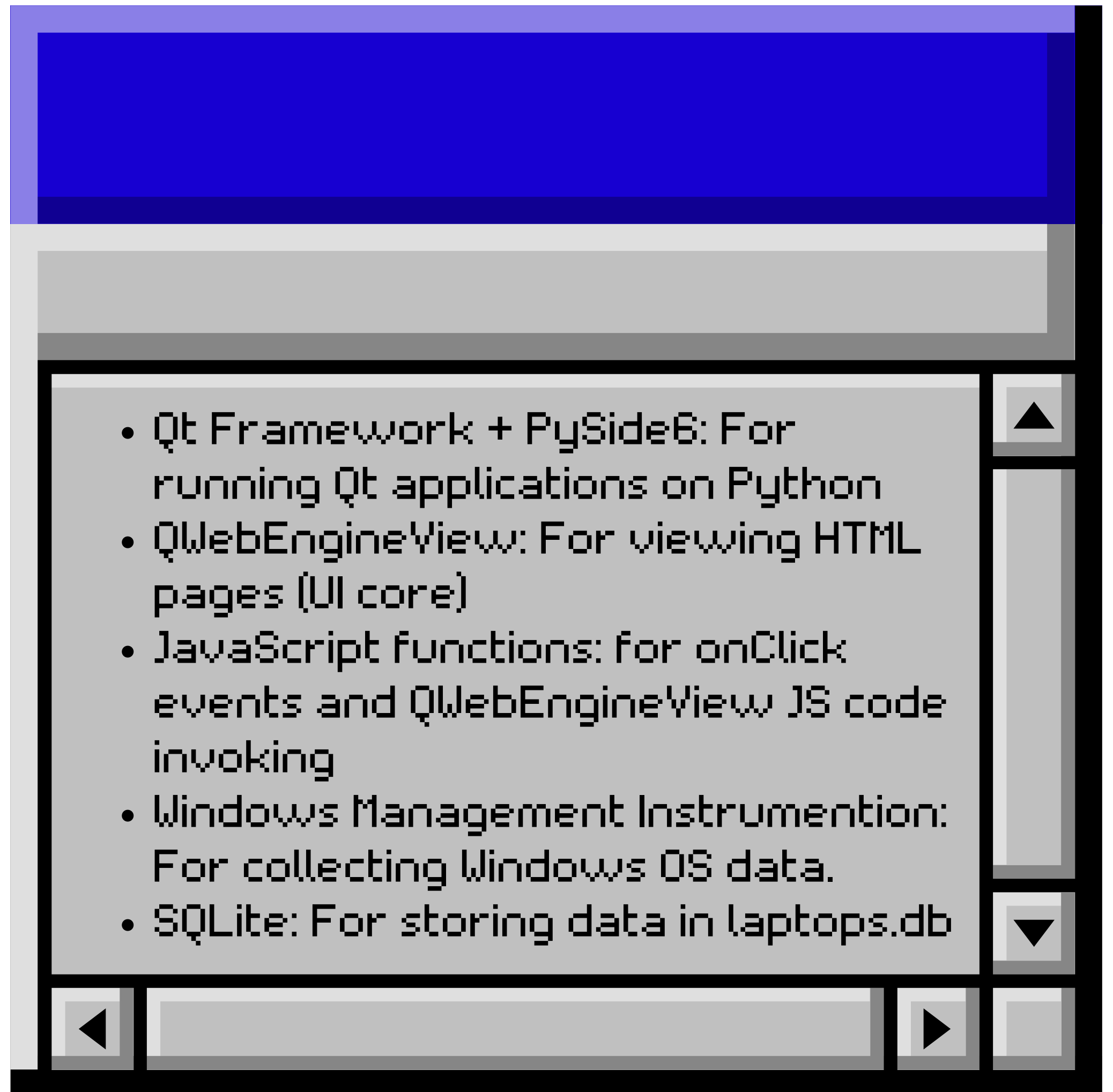
Project intro



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Dependencies

L.S.S Requirements in order to operate.



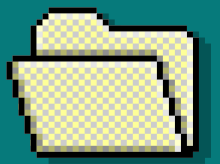


Project Structure

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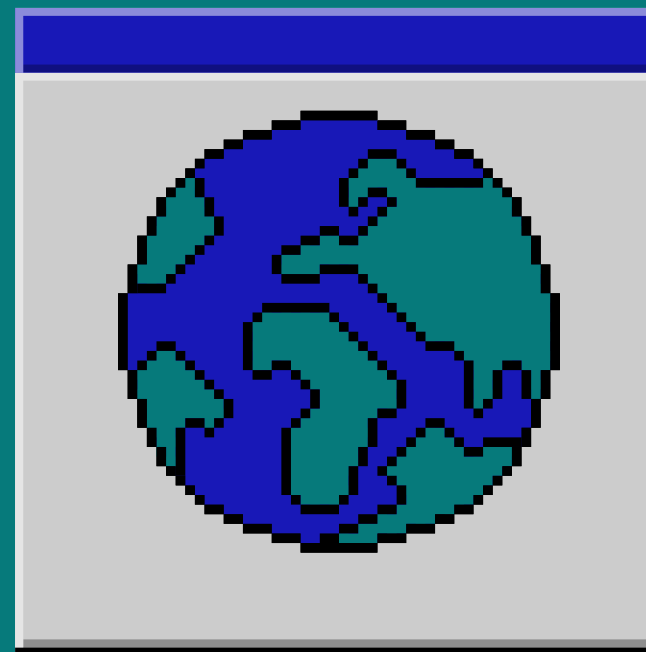


Project structure



Qt Widgets (PySide6)

Qt Framework UI files, mainly QMainWindow. UI files are stored in .UI files and initiated by QUiLoader or UI initialization script



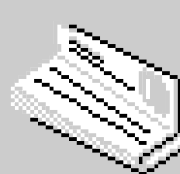
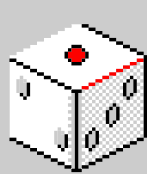
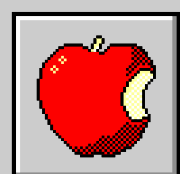
HTML files

The core UI interface for L.S.S, running using QWebEngineView. HTML files contains style data and JS scripts for displaying modal dialogs and connecting to localhost:8050



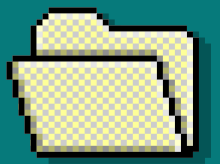
Python scripts

The backend of localhost server, which runs QMainWindow, initializes localhost:8050 server and handles HttpRequests. Also containing OOP classes for data models



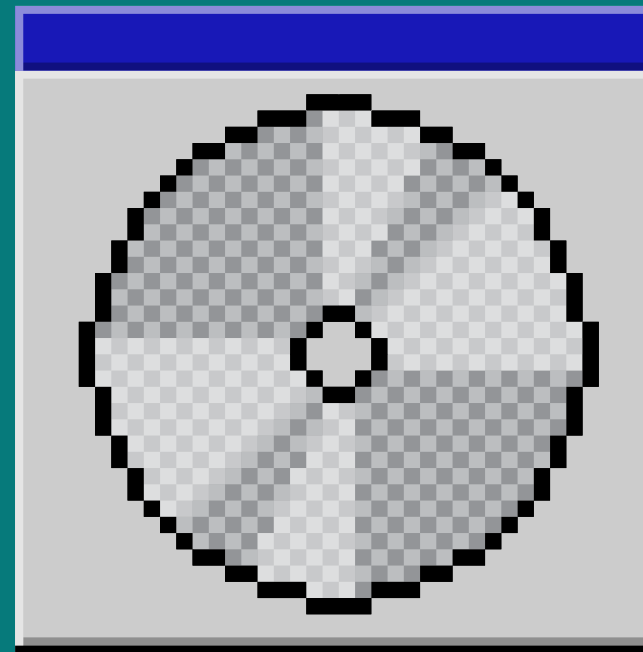
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OOP Classes



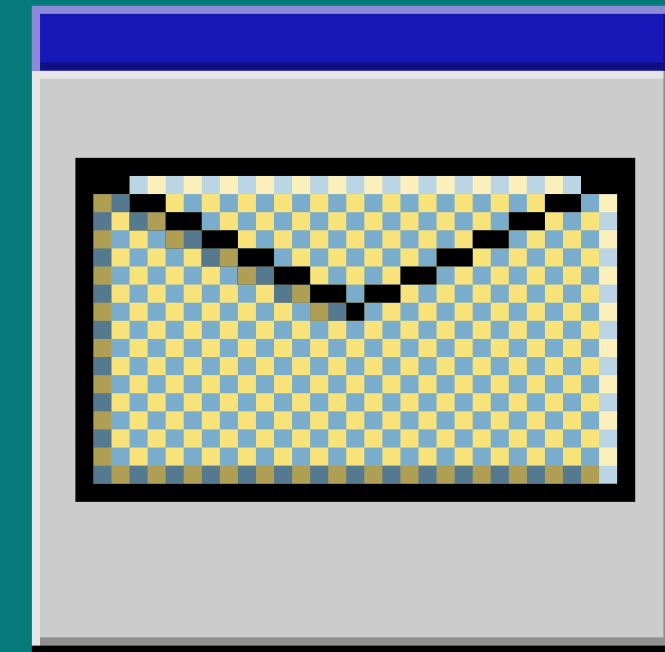
Laptop

Standard properties:
Manufacturer, Model Family,
Model, CPU, Integrated GPU,
Dedicated GPU, RAM, Storage,
Storage type, Drivers



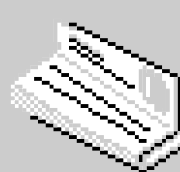
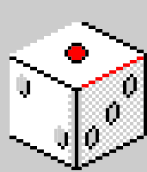
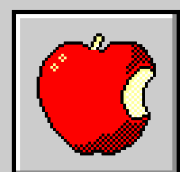
Driver

Standard properties: Name, Version,
Release date, Install Command, Package
size, Device class



UserDetails

Standard properties: Username,
Email





How L.S.S does work?

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Workflow

- mainwindow.py creates new localhost:8050 server instance, when initializing QMainWindow MainWindow instance.
- Allowing to QWebEngineView to navigate to localhost:8050/html/index.html
- Displaying core UI pages.

- On DOM document load, QWebEngineView will run JS function updatePCSpecs, injecting WMI data to index.html.
- Displaying PC specifications
- User can optimize his PC by clicking Optimize PC button, running system commands to clear data, flush DNS, etc

- User can contribute by supplying his PC specs and drivers to be registered in laptops.db (SQLite3)
- When installing drivers, WMI will get PnP device driver data and compare it with laptops.db drivers (Automatic installation), or gathering all drivers for PC to install (Manual Mode)
- Drivers will be installed by executing localhost:8050/drivers/{driver_name}.exe {arguments}



Project Structure

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