# Code Inspection for historical.html

**Description**

The historical.html page serves as a historical data dashboard, designed to present sensor data in both tabular and graphical formats. It integrates Bootstrap for responsive structure, home.css for shared styling, historical-data.css for specific overrides, and historical-data.js for interactivity. The layout includes a header with a logo, a navigation bar, filter controls, tabbed content for table and graph views, and a footer, offering a clean, modern, and user-friendly experience.

**Layout Description:**

* **Fonts:** 
  1. Default: Arial, sans-serif (inherited from home.css and reinforced by historical-data.css).
* **Colours:** 
  1. From home.css and historical-data.css:

■ Primary Dark Blue: #1B355D (titles, table headers).

■ Secondary Blue: #005095 (navbar background).

■ Deep Navy: #1A2C4E (footer, dark mode headers).

■ Light Blue: #3B5998 (hover effects).

■ Accent Blue: #0c3c84 (buttons).

○ Additional:

■ Body: #f8f9fa (light gray, from historical-data.css).

■ Dark mode: #121212 (body), #2a2a2a (even rows).

■ Bootstrap defaults: Grays (#ddd) for borders, white for table backgrounds.

* **Text and Text Styling:** 
  1. Page title (h2): Centered, bold, #1B355D (white in dark mode, from historical-data.css).

○ Navigation links (.nav-link): White, 16px, padding 10px 15px (from home.css).

○ Table text: 12px padding, left-aligned, headers #1B355D (from both CSS files).

○ Footer: White, centered (from home.css).

* **Spacing and Layout:** 
  1. Container (.container.my-5): 5rem vertical margin (Bootstrap), padding 0px 20px (from historical-data.css).

○ Header (.main-header): 200px height, Flexbox for logo alignment (from home.css).

○ Filter controls (.row.mb-4): Flexbox row, 3-unit gutter (gx-3), 4rem bottom margin.

○ Tabbed content (.tab-content): Full-width, fade transitions for view switching.

* **Container and Widget Styles:** 
  1. Table (.table-responsive): Responsive wrapper, striped and bordered (Bootstrap + historical-data.css).

Chart container (.chart-container): 400px height (inline), adjusted to 600px by historical-data.css.

○ Footer (.bg-dark.py-4): #1A2C4E background, 4rem padding (mapped from home.css).

* **Responsive Design:** 
  1. Bootstrap grid (col-md-3, col-md-4) for filter layout.

○ Navbar collapses via navbar-expand-lg.

○ Padding adjusts to 20px at max-width: 768px (from historical-data.css).

* **Images, Logos, and Other Visual Elements:** 
  1. **Images:** Background rakusens\_header.png in .main-header (200px height, cover, from home.css).

○ **Logos:** rakusens\_logo.svg in .logo-container, 160px height, centered (from home.css).

* **Text Used:** 
  1. Header: Logo only, no text.

○ Navigation: “Dashboard,” “Historical Data” (active), “Help & Support.” ○ Main content: “Historical Sensor Data” (h2).

○ Filter controls: Placeholders “Select Date,” “Search by date...”.

○ Tabs: “Table” (active), “Graphs.”

○ Footer: “© 2024 Rakusens. All rights reserved.”

**Links:**

* **Links to Other HTML/CSS/JS Pages:** 
  1. Navigation: <a href="../home.html">Dashboard</a>, <a href="help.html">Help & Support</a>, <a href="#">Historical Data</a> (self-placeholder).

○ CSS: ../css/home.css, ../css/historical-data.css.

○ JS: ../js/historical-data.js, ../js/logged-in.js.

* **Bootstrap and External Library Links:** 
  1. Bootstrap CSS: https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css.

○ Bootstrap JS: https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js.

○ Font Awesome: https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css.

○ Bootstrap Icons:

https://cdn.jsdelivr.net/npm/bootstrap-icons/font/bootstrap-icons.css.

○ DataTables CSS: https://cdn.datatables.net/1.11.5/css/jquery.dataTables.css.

○ jQuery: https://code.jquery.com/jquery-3.6.0.min.js.

○ DataTables JS: https://cdn.datatables.net/1.11.5/js/jquery.dataTables.min.js. ○ Chart.js: https://cdn.jsdelivr.net/npm/chart.js.

**Extra Details – Interactive Elements:**

* **Filter Controls:** 
  1. Dropdown (#lineSelector): Options “Line 4,” “Line 5,” styled with form-select. ○ Date input (#dateFilter): Placeholder “Select Date,” styled with form-control.

Search box (#searchBox): Placeholder “Search by date...,” styled with form-control.

* **Tabs:** 
  1. Bootstrap .nav-tabs: Toggles between “Table” (active) and “Graphs” views with data-bs-toggle="tab".
* **Data Table:** 
  1. #lineTable: Responsive, striped, bordered table, powered by DataTables, dynamic headers/body.
* **Graph View:** 
  1. #chartTypeSelector: Dropdown for chart types (“Line,” “Pie,” “Bar,” “Area,” “Scatter”).

○ #dataChart: Canvas, 400px height (inline, overridden to 600px), renders graphs via Chart.js.

**HTML Explanation and Application:**

* **Structure:** Standard HTML5 with Bootstrap classes for layout and responsiveness.
* **Dependencies:** Links external libraries for styling and functionality.
* **Content:** Organized into header, nav, main content, and footer, with interactive sections driven by JS.