**Code Inspection for account.html**

**Description of Landing Page**

The account management page is designed as a responsive dashboard interface where users can **view and manage their personal information**. Built with **Bootstrap 5** and enhanced by **Font Awesome icons**, the page features sections for:

* **Account Overview**: Displays user-specific details such as **email address**, **user ID**, and a default avatar.
* **Password Update**: A secure form with validation that allows users to **change their password** with visual feedback and a loading spinner during submission.
* **Preferences**: Includes a **dark mode toggle**, enabling real-time theme switching with saved user preference via localStorage.

The layout is fully responsive, adapting across desktop and mobile devices using **Bootstrap’s grid system and utility classes**. Visual styling emphasizes clarity, accessibility, and interactivity through cards, icons, gradients, and shadows.

**Layout Description**

* **Fonts**:
  + **Primary Font**: Bootstrap’s system font stack (-apple-system, BlinkMacSystemFont, "Segoe UI", Roboto).
  + **Icons**: Font Awesome (e.g., fa-user, fa-lock) used in nav, forms, and buttons.
  + **Headings**: Bootstrap heading utilities like .h2 with .mb-4 spacing.
* **Colors**:
  + **Primary Color**: #0d6efd for buttons and nav elements.
  + **Gradient**: Custom .bg-gradient-primary in header.
  + **Card Background**: White (#ffffff) with .shadow-sm for soft elevation.
  + **Alerts/Logout**: #dc3545 for visual warning emphasis.
* **Text Styling**:
  + .nav-link elements: White on a dark blue background via .navbar-dark.bg-primary.
  + .active: Uses Bootstrap’s default styling for the current page.
  + .form-label and input text: 14px with color #212529.
* **Spacing and Layout**:
  + **Grid**: .row.g-4, .col-lg-4, .col-lg-8 for content distribution.
  + **Spacing Classes**: .mt-5, .mb-4, and .g-4 maintain clean spacing.
  + **Cards**: .card.border-0.shadow-sm for a modern look.
* **Containers and Widgets**:
  + **Avatar Section**: .rounded-circle user icon with .bg-primary background.
  + **Form Controls**: .input-group elements with icons (.fa-key, .fa-check-circle).
  + **Dark Mode Toggle**: .form-switch toggle in the Preferences section.
* **Responsive Design**:
  + **Navbar**: Collapses via .navbar-expand-lg into a hamburger menu on small screens.
  + **Content**: Grid columns stack vertically on smaller viewports.

**Images, Logos, and Visual Elements**

* **Logo**:
  + **SVG (rakusens\_logo.svg)** centered with .position-absolute and .translate-middle.
  + Uses .filter-invert class to support dark mode display.
* **Icons**:
  + Font Awesome used in navigation, forms, and buttons (fa-user-cog, fa-sign-out-alt).
  + Default avatar uses fa-user with .fa-2x.
* **Backgrounds**:
  + Header includes a .header-overlay with a gradient (.bg-gradient-primary), defined in account.css.

**Links**

* **Internal Navigation**:
  + Dashboard: href="../home.html"
  + Historical Data: href="historical.html"
  + Help: href="help.html"
  + Account (current page): href="account.html"
* **External Resources**:
  + **Bootstrap 5 CSS**:  
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
  + **Font Awesome**:  
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

**CSS Explanation and Application**

* **Header Styling**:
  + .main-header uses a gradient and overlay for visual hierarchy.
  + Centered logo via .top-50.start-50.translate-middle.
* **Navigation Bar**:
  + .navbar-dark.bg-primary applies a bold theme.
  + .shadow-sm separates nav visually with a soft shadow.
* **Card Styles**:
  + Cards use .border-0 and .shadow-sm for a clean, elevated feel.
  + Form inputs utilize .form-control with Bootstrap validation classes.
* **Interactive Elements**:
  + **Password Form**:
    - Uses novalidate and .was-validated for form validation.
    - Includes .spinner-border to show submission progress.
  + **Dark Mode Toggle**:
    - Controlled by data-bs-theme, syncs with localStorage.
  + **Logout Button**:
    - Styled using .btn-danger with Font Awesome icon (fa-sign-out-alt).

**Responsive Adjustments**

* **Bootstrap Breakpoints**:
  + .col-lg-\* adjusts at 992px and above.
  + Navbar collapses automatically for smaller screens.
* **Mobile Optimization**:
  + Grid columns stack into a single-column layout.
  + Buttons use .w-100 for full width on small screens.

**Interactive Elements**

* **Form Validation**:
  + Password inputs require minlength="8", display messages using .invalid-feedback.
  + Icons (fa-check-circle, etc.) aid user feedback.
* **Dark Mode Toggle**:
  + Switch toggles data-bs-theme and updates theme persistently.
* **Logout Actions**:
  + logout() function triggers confirmation and redirects to login.html.