DOCUMENTATION - FLUTR
REQUIREMENTS, CONSTRAINTS, & STANDARDS

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Requirements & Constraints

Employee UI

- Editing of current and past butterfly tracking data
- Creation of new flight houses with customization options
    - Butterfly common name
    - Flight house logo/branding
    - Employee creation for every house, with respective user access levels (constraint)
- Butterfly photo editing (Only for super user)
- Exporting of butterfly tracking data

Visitor UI

- Display information specific to each Butterfly Garden
- Good landing page that shows all gardens using the platform
- Kiosk Specific version so users can't escape site through external links like social media links (constraint)

Kiosk

- Sufficient cooling method to keep the components cool in the high-temperature, humid conditions of the flight house
- Proper sealant system to keep bugs out of the interior of the kiosk and prevent damage to cables and other components (constraint)
- Efficient, resilient touch interface for visitor interaction

- Fast and lag-free user experience with kiosk software

Engineering Standards

IEEE Std 1063-1987 (Standard for Software User Documentation)

- Ensuring that the software documentation is comprehensive, clear, and useful to all user groups. This standard covers the applicability, purpose, document usage, conventions, issue reporting instructions, tutorials, and glossary, which are all important to allow for easy adoption and maintenance of the project.

ISO/IEC 27001 (Information Security Management)

- Protecting sensitive data related to the operations of different flight houses, as well as user and employee data collected through the system. This standard outlines the best practices for establishing, implementing, and maintaining information security.

WCAG (Web Content Accessibility Guidelines)

- Ensuring the website and kiosk UI are accessible to all visitors, including those with disabilities. Compliance with this standard makes the website's content more accessible to a wide range of people with disabilities.

IEEE 830 (Recommended Practice for Software Requirements Specifications)

- Guides the development of clear software requirements specifications, in order to ensure the final product will meet the needs and requirements of the client and all user groups.