

Reflex App Design & Progress

1. Overview

This document tracks the design plan, progress, and key decisions for the Reflex-based application.

2. App Structure & Flow

Authentication

- **Register Page:** New users sign up (username, email, password, confirm password).
- **Login Page:** Existing users log in (username/email, password).
- **Auth Library:** Using `reflex-local-auth` for rapid, secure implementation.
- **After login:** Redirect to main Data Viewer page.
- **Page protection:** All other pages require authentication (`@require_login`).

Main Feature: Data Viewer

- **Displays:** Grid/list of images (or other data) from backend (MongoDB, GCP, etc.).
- **UI:** Thumbnails, titles, summaries; click for modal with details.
- **Pagination:** For large datasets.
- **Backend:** Fetch data from MongoDB via Mindtrace ODM; images via presigned GCP URLs (to be implemented).

Layout & Navigation

- **Sidebar or Top Navbar:** Links to Data Viewer, (optional) User Management, Logout.
- **Consistent Theming:** Use Reflex theme system; consider a design config for colors/fonts.

User Management (Optional for v1)

- **Admin-only page:** List/add/delete users, assign roles.

Routing Table

Route	Page	Access
<code>/register</code>	Register	Public
<code>/login</code>	Login	Public
<code>/</code>	Data Viewer	Authenticated
<code>/users</code>	User Management	Admin only (opt)

3. Progress Checklist

- ☐ Set up authentication pages with reflex-local-auth
 - ☐ Build Data Viewer page (fetch data, display grid, modal, pagination)
 - ☐ Implement layout (sidebar/navbar) and routing
 - ☐ (Optional) Add user management for admins
 - ☐ Document design system and conventions
-

4. Design Decisions & Notes

- Use event handlers for all private data access (never expose sensitive data in static page code)
 - Extend user model/state for roles, company, etc. as needed
 - Use Reflex theming for consistent look and feel
 - Evaluate if built-in components are sufficient or if a custom design system is needed
-

5. Contributors

- Please update this file with progress, design changes, or questions!