

Requirements Document: Results America Web Application (Reverse-Engineered)

1. Overview

Purpose: Provide a publicly accessible digital platform that empowers citizens, policymakers, and stakeholders to explore and compare state-level performance data across key policy domains such as education, health, economy, environment, public safety, and government effectiveness.

Target Users: - General public (civically engaged individuals) - Journalists - State government staff and policymakers - Nonprofits and think tanks - Platform administrators and data curators

2. User Roles and Permissions

2.1 Guest

- View landing page
- View marketing copy, sample screenshots, and explainer video
- Trigger login/signup modals

2.2 Registered User

- Log in/log out
- Browse and explore state dashboards
- Use compare-state tool
- Favorite or bookmark states or metrics
- Submit feedback or comments (moderated)

2.3 Admin

- Manage user accounts (CRUD)
- Upload/update state data (via CSV or API integration)
- Add/edit metric descriptions, source links, and data update frequency
- Moderate user feedback/comments
- Assign roles to users (admin/editor/viewer)

2.4 Data Curator / Editor (optional role)

- Add/edit metric metadata
 - Draft new categories/metrics for admin approval
 - Tag data with "experimental" or "archived" labels
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3. Core Features (by Page)

3.1 Landing Page

- Hero message: "Helping States Improve with Data"
- CTA: "Explore the Data"
- Navigation: About, Methodology, Blog, Log In / Sign Up
- Mobile-friendly layout

3.2 Authentication

- Email/password-based sign-up & login
- Password reset (email-based)
- Google OAuth (optional)
- Basic session timeout handling (e.g., 1 hour idle timeout)

3.3 Dashboard (User Home)

- Dropdown to select a state
- Overall performance summary
- Sparkline or trend visual per category
- Links to detailed view per category

3.4 State Profile Page

- State name and outline graphic
- Category tabs (e.g., Education, Economy, etc.)
- For each category:
 - Card-style presentation of metrics
 - Trend icon (up/down/flat)
 - Tooltip or info icon for metric definitions
 - Source attribution (e.g., "CDC, 2021")
 - Last updated date

3.5 Compare States Tool

- Multi-select dropdown for 2+ states
- Side-by-side table/grid of selected metrics
- Conditional formatting for high/low performers
- Optional export (CSV or image)

3.6 Feedback / Suggestions

- Contact form or floating feedback button
- Optional email input
- Auto-routed to admin dashboard for triage

3.7 Admin Console

- Dashboard with stats (e.g., number of users, last data upload)
 - User management (search, filter, deactivate, role assignment)
 - Data uploader (manual CSV or API endpoint management)
 - Metric management (CRUD for measures, categories, subcategories)
 - Preview mode before publishing updates
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4. Data Model (Simplified)

- **User:** id, email, password_hash, role, created_at, last_login
 - **State:** id, name, abbreviation, outline_svg
 - **Category:** id, name, description, display_order
 - **Metric:** id, category_id, name, definition, source, unit, format, historical_trend
 - **DataPoint:** id, metric_id, state_id, year, value, trend
 - **Feedback:** id, user_id (nullable), message, created_at, status
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5. Technical Requirements

5.1 Frontend

- Framework: React, Vue, or SvelteKit
- Visualization: Recharts or D3.js
- Responsive UI (mobile/tablet support)

5.2 Backend

- Framework: Node.js with Express, or Python with FastAPI
- Auth: JWT-based session tokens or Firebase Auth
- API Layer: REST or GraphQL
- Admin interface: Custom UI or integration with open-source CMS

5.3 Database

- Relational DB (PostgreSQL or MySQL)
- Backup & restore automation

5.4 Hosting & DevOps

- Hosting: Vercel, Netlify, or AWS Amplify
- CI/CD: GitHub Actions or CircleCI
- Monitoring: Sentry, LogRocket, or DataDog

5.5 Accessibility & Compliance

- WCAG 2.1 AA compliance
 - GDPR/COPPA support (minimal tracking; privacy notice)
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6. Future Features (Planned or Inferred)

- State-level subscriptions and notifications ("alert me when WA education rank changes")
 - User-generated reports or dashboards
 - Blog with policy interpretation articles
 - Downloadable raw datasets
 - Public API for third-party developers
 - State self-onboarding for performance officers to upload data
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7. Assumptions and Risks

- Data quality and update frequency depend on external sources
 - Political sensitivity of rankings could deter participation
 - Sustainability hinges on funding (ads, sponsorships, or foundations)
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8. Glossary

- **Metric:** A measurable indicator, e.g., "HS Graduation Rate"
 - **Category:** Grouping of metrics, e.g., "Education"
 - **Trend:** Whether a state is improving, declining, or flat on a metric
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9. Versioning & Status

- Document version: v1.0 (Inferred from walkthrough)
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- Author: GPT (Reverse-engineered from app walkthrough)