

Regression Plan

Regression Plan for Dataverse/Checklist

1. Account Management

- **Account Creation:** Verify all methods of account creation (username/email, ORCID, institutional login, etc.).
 - **My Data:** Verify that associated collections and datasets are displayed correctly.
 - **Password Management:** Test password reset flows, including edge cases (e.g., invalid email).
 - **API Token:** Ensure API token creation, regeneration, and usage across endpoints.
 - **Account Editing:** Validate editing functionality, especially for accounts using institutional logins.
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2. Finding and Using Data

- **Search Functionality:**
 - Test basic and advanced searches.
 - Validate search facets (adding, removing, sorting).
 - Geospatial search using latitude/longitude parameters.
 - **Browsing:** Ensure datasets and collections display correctly.
 - **File Downloading:**
 - Single and bulk downloads, preserving directory structures.
 - Verify download permissions with single and bulk downloading of files (including files which have been restricted/embargoed/past the end of retention period)
 - Test all file formats (e.g., tabular, large files via URL).
 - **Guestbook:** Ensure guestbook functionality is working as expected.
 - **Exploration Tools (see also "External Tools" below):**
 - Validate exploratory data analysis workflows using OpenDP metadata.
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3. Dataverse Collection Management

- **Creation:** Verify the creation flow with all metadata fields, templates, and permissions.
 - **Editing:** Validate updates to general information, themes, roles, and widgets.
 - **Templates:**
 - Create, edit, and delete dataset templates.
 - Apply templates to datasets and verify metadata inheritance.
 - **Linking:**
 - Test dataset linking and inter collection linking.
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4. Dataset and File Management

- **CRUD Operations:**

- Test all dataset operations (create, edit, delete, publish).
 - Ensure file upload/replacement workflows function seamlessly.
 - **Version Control:**
 - Validate dataset version histories, including rollback scenarios.
 - Testing of current version. Re-publish existing version without creating new version.
 - Dataset deaccessioning version(s).
 - Verify “Submit for Review” and “Publish/Return to Author” workflows are working properly.
 - **File-Level PIDs:** Test DOI/handle integration and metadata accuracy.
 - **Ask the Data:** [Ask the Data Documentation](#)
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5. External Integrations

- **API Integrations:**
 - Validate Search API, Native API, Metrics API, and Linked Data Notification API endpoints.
 - Ensure token-based authentication works correctly.
 - **External Tools:**
 - Verify integration with configured external tools for file exploration and metadata exports.
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6. Roles and Permissions

- **Role Assignment:**
 - Assign and test permissions at collection, dataset, and file levels.
 - Validate inherited permissions from parent collections.
 - Custom Roles and assignment permissions
 - **User Roles:**
 - Browse and use app as expected as a Guest, User, Curator, Admin, etc.
 - “Request File Access” and Grant/Revoke Permissions
 - **User Groups:**
 - Test group-based permissions using IP Groups and mail domain groups.
 - **Preview URL:**
 - Creation of Preview URL, Create anonymized access, Disable Preview URL.
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7. Admin Features

- **Dashboard and Monitoring:**
 - Test reporting tools, Solr Search Index updates, and quota management.
- **Metadata Customization:**
 - Validate adding and exporting custom metadata blocks.

- **Harvesting:**
 - Test server and client configurations for dataset harvesting.
 - **Storage Quotas:**
 - Simulate exceeding quotas and test notifications.
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8. Installation and Configuration

- **Environment Setup:**
 - Verify installation across supported platforms and configurations.
 - **OAuth/Shibboleth/SSO:**
 - Test all login configurations, including failure scenarios.
 - **Upgrades:**
 - Validate upgrades preserve configurations and data integrity.
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9. Security and Performance

- **Security:**
 - Validate against common vulnerabilities (e.g., unauthorized data access, CSRF).
 - Test role-based access control integrity.
 - XSS Vulnerability
 - Harmful files test
 - **Performance:**
 - Conduct load testing for high-traffic scenarios.
 - Test dataset publication with large files and metadata.
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10. Regression for Edge Cases

- **Backward Compatibility:** Verify features work with datasets from older versions.
 - **Error Handling:**
 - Simulate failures (e.g., file upload interruptions, API timeouts).
 - Validate user-friendly error messages and system recovery.
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11. Localization

- **Compatibility:**
 - Verify text translations across supported languages.
 - Test alignment and layout adjustments for languages e.g. French.
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12. Browser compatibility

- **Tests:**
 - Validate functionality across supported browsers (Chrome, Firefox, Safari, Edge).
 - Test for older browser versions and fallback behavior.