Program Management – Manual Test Plan

1. Introduction
This manual test plan validates the Program Creation and Program Viewing features in the Neighborly QA Sandbox environment. Testing focuses on functional correctness, role-based permissions, validation rules, and UI data accuracy.

2. Test Objectives
- Ensure Program Staff and System Admin users can create programs.

- Verify validation rules and error handling.

- Confirm programs appear correctly in the Programs List.

- Validate all fields on the Program Detail page.

- Ensure unauthorized roles cannot access restricted functionality.

3. Test Scope
This plan covers: program creation, validation, listing, searching, viewing details, and role-based access control (RBAC). It excludes API testing, backend persistence testing, and non-functional tests (handled separately).

4. Test Roles
- **Program Staff**: Full create/view

- **System Admin**: Full create/view

- **Applicant**: View only

- **Reviewer**: View only

5. Test Data
- Program Names: Valid/Invalid/Edge Case strings

- Numeric Inputs: positive, zero, negative, decimal

- Dates: valid chronological order, reversed, missing

- Roles: Program Staff, System Admin, Applicant

6. Test Cases

6.1 Positive Test Scenarios (Happy Path)
- - Program Staff successfully creates a valid program.

- ● - System Admin successfully creates a valid program.
- ● - Program appears in the Programs List after creation.
- ● - Program detail page displays correct information.
- ● - Optional fields correctly display when present.

6.2 Negative Test Scenarios (Validation & Error Handling)
- ● - Missing required fields (Program Name, Total Budget).
- ● - Negative Total Budget displays validation error.
- ● - Max Award > Total Budget shows validation error.
- ● - Close Date earlier than Open Date triggers error.
- ● - Submitting empty form shows required field errors.

6.3 Edge Cases
- ● - Program Name at max character limit.
- ● - Category with special characters.
- ● - Very large numeric inputs.
- ● - Open Date exactly equal to Close Date.
- ● - Open Date but no Close Date.

- ● - Negative values in each field.

6.4 Role-Based Permission Tests
- ● - Applicant cannot see 'Create Program' button.
- ● - Reviewer cannot create programs.
- ● - Program Staff can see Create & Manage actions.
- ● - System Admin can see Create & Manage actions.
- ● - Unauthorized users redirected to login page.

- ● - Unathorized users can access pages by using a link or manual input.

6.5 Program Viewing Tests
- ● - Programs List displays all required columns.
- ● - Currency formatting correct for Total Budget and Max Award.
- ● - Status badge displays correct color and label.
- ● - Dates formatted as readable strings.
- ● - Clicking a row opens correct detail page.

7. Bugs / Recommendations
- ● - Program creation detail page does not always reflect the exact date entered; may be adjusted for timezone.
- ● - Search is exact-match dependent; partial matches may not work consistently. Another example, I used "asdf" as a test name, and I entered asd and the table goes blank. It needs to wait until the user either makes an "enter" or "search" command or not be exact-match dependent.

- - Some dropdowns use Radix UI elements that require extra handling and may be difficult to automate.

- "Edit Program" button has a "404" page not found when clicked. Depending on how the server is being monitored, having a listener for "404"s would be a good idea to catch these in production environments. (Also an option is a 3rd party service like **instatus**)

- "View applications" button has a "404" page not found when clicked. (Same recommendation as the edit program line above.)

- /users/ page is throwing a "404" page not found even for system admin users.

- /reports/ page is throwing a "404" page not found even for system admin users.