

Technical Report: February 10, 2026

1. Agent Dashboard & UI Enhancements

- **Agent Dashboard UI:** Implemented a modern, premium design for the Agent dashboard featuring glassmorphism elements, high-contrast typography (removing problematic black/dark colors), and responsive layouts.
- **Pending Applications Page:** Created a dedicated UI for agents to track students who have started but not completed the application flow.
- **Applied Students Page:** Designed and implemented the "Applied Students" registry, showing the current status of all submitted applications.
- **Program Selection Flow:** Overhauled the multi-step program selection UI to include academic taxonomy context, student profile summaries, and a detailed program review section (Step 6).

2. Backend Logic & Security (Roles & Rules)

- **Role-Based Filtering:** Updated student and application controllers to ensure agents can only see students they referred or were assigned to.
- **Assignment Logic:** Implemented `accessibleCountries` and `accessibleUniversities` for Agents.
 - **The Fix:** Strictly enforced these filters in the [ExternalApiController](#).
 - **Problem Encountered:** During testing, no programs were showing because the test agent was restricted to "IND" (India), and many Indian universities lacked data in the external API.
- **Auto-Logout Bug Fix:** Adjusted session timeout and token expiration logic to 24 hours to prevent frequent role-based auto-logouts during active sessions.

3. Program Selection & API Integration

- **Direct API Proxying:** Created a backend proxy (`/api/external-search/*`) that calls the external `search-and-apply` API.
 - **Reason:** This allows the server to filter results based on agent permissions BEFORE they reach the frontend, ensuring data privacy.
- **Naming Convention Normalization:**
 - **Problem:** The external API returned some programs with `course_name` and others with `program_name`.

- **Fix:** Updated [SelectionCard](#), `filteredItems`, and [handleNext](#) to robustly handle both keys, ensuring data is always indexed and displayed correctly.
- **General Application Fallback:**
 - **Problem:** Some universities had metadata (Specializations) but zero actual programs in the API.
 - **Fix:** Implemented a "Proceed with General Application" button that creates a synthetic program object, allowing agents to move forward even with incomplete external data.

4. Key Bug Fixes

- **Step 6 Rendering:** Fixed syntax errors in [ProgramSelectionFlow.jsx](#) that prevented program results from being logged and displayed.
 - **Accessibility Fix:** Temporarily expanded agent permissions to include "["MYS"](#)" (Malaysia) to verify the data flow for universities with rich program data.
 - **White-on-White Text:** Fixed readability issues by adjusting HSL color tokens to ensure all headers/labels are clearly visible on light backgrounds.
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Status: All UI components are functional. Backend proxy is secure and permission-aware. Program selection is resilient to external data gaps.