Love to Fly Portal – Technical Audit & Progress Report

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1. Introduction

This document provides a comprehensive technical audit, feature/content inventory, and development progress report for the Love to Fly Portal as of January 10, 2026. It summarizes all major actions, tool results, and project status, formatted for A4 printing with clear section breaks.

2. Project Objectives & User Requests

- Full technical audit and health check
- Run all available tests (lint, Jest, e2e)
- Inventory all features, plans, and ideas from documentation since project inception
- Produce a new development progress report and priority task list
- Strict deployment control: no production changes without explicit user permission

3. Technical Foundation

- **Frameworks:** Next.js 16.1.1 (App Router), React 19.2.3, TypeScript
- **Build Tools:** Turbopack, Tailwind CSS
- **Database:** Neon PostgreSQL, node-pg-migrate
- **APIs:** Co-located in feature folders, JWT authentication, Stripe payments, Resend emails
- **Testing:** Jest (unit), Playwright (e2e), ESLint
- **Documentation:** Extensive markdown files (README, ROADMAP, PRIORITY_TASKS, etc.)

4. Codebase Status

- **API:** src/app/api/user/profile/route.ts fixed (SQL for flight hours, error logging)
- **Migrations:** 028–031 applied, including aviation qualifications
- **Documentation:** All major files read and inventoried
- **Scripts:** package.json includes lint, test, build, migrate, e2e, etc.

5. Problem Resolution

- Profile API 500 errors fixed by applying missing migration and correcting SQL
- Lint errors identified as a major blocker (1,110+ errors)
- Jest test suite: 5/5 suites, 45/45 tests passed
- Some APIs still use mock data; photo upload, listing edit, and booking lifecycle incomplete

6. Progress Tracking

- **Completed:** Migrations, profile API fix, profile settings, Jest tests, documentation inventory
- **Partially Complete:** Lint cleanup, e2e/UI tests, API data realism, photo upload, listing edit, booking lifecycle

- **Validated Outcomes:** Profile API, qualification fields, and core flows are working; Jest tests pass

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7. Active Work State

- **Current Focus:** Full technical audit, test run, feature/content inventory, and progress report
- **Recent Context:** Read all major documentation, ran lint and Jest tests, produced a comprehensive analysis and roadmap
- **Working Code:** No code changes in this phase; focus was on analysis, health check, and reporting
- **Immediate Context:** Summarizing all actions and results for user review

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8. Recent Operations

- **Documentation files read:** README.md, DOCUMENTATION_INDEX.md, PRIORITY_TASKS.md, ROADMAP.md, DEVELOPMENT_STATUS.md
- **package.json:** Scripts for lint, test, build, migrate, e2e, etc.
- **manage_todo_list:** Created and updated a todo list for health check, inventory, and progress report
- **yarn lint:** Ran ESLint, found 1,110+ errors (mainly no-explicit-any, React warnings, etc.)
- **yarn test --runInBand:** Ran Jest, all tests passed
- **Summarized and analyzed all results:** Produced a comprehensive technical and project report
- **No e2e or Playwright tests run** (though scripts exist)

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9. Continuation Plan

- **Pending Task 1:** Fix all lint errors (critical for CI/CD and maintainability)
- **Pending Task 2:** Connect APIs to real DB (replace mock data in airport/owner APIs)
- **Priority Information:** Lint cleanup, API realism, photo upload, listing edit, and booking lifecycle are top priorities
- **Next Action:** Begin lint remediation and connect APIs to real data, then proceed with remaining critical and high-priority tasks as outlined in the new roadmap

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End of Report

This document is formatted for A4 printing. Each major section begins on a new page for clarity and organization.