

# Work Plan

## Phase 1: Backend & Database (Nov 26 – Dec 2)

**Goal:** Establish the data structures and API endpoints so the frontend has data to consume.

### 1. Database Schema Updates

- **Forum Tables:** Create migrations for ForumCategories, Threads, and Comments based on the new FRs.
- **Admin Logs:** Create an AdminLog table to satisfy FR-11.11 (audit trail).
- **Flags/Reports:** Create a Report table linking users/content to a "reason" and "status" (Open/Resolved).

### 2. API Development (Admin)

- GET /api/admin/stats: Aggregate counts for users, active offers/needs, and pending reports.
- GET /api/admin/users: List users with status (Active/Banned/Warning).
- POST /api/admin/users/:id/action: Endpoint to Ban/Warn a user (FR-11.5, FR-11.6).
- GET /api/admin/reports: List all unresolved content reports.

### 3. API Development (Forum)

- GET /api/forum/categories: Fetch active categories.
- GET /api/forum/threads?category=X: List threads with pagination.
- POST /api/forum/threads: Create a new thread (requires Auth).
- POST /api/forum/threads/:id/comments: Add a comment to a thread.

## Phase 2: Frontend & Core UI (Dec 3 – Dec 5)

**Goal:** Specific UI components for the Dashboard and Forum.

### 1. Forum (The Commons) UI

- **Category List:** A simple navigation sidebar or card grid for Forum Categories.
- **Thread List Component:** Displays thread title, author, and "last active" timestamp.
- **Thread Detail View:** A page showing the main post followed by a list of comments.
- **Create Thread Modal/Page:** A simple form with a Title input and Text Area body.

## Phase 3: Integration, Security & Polish (Dec 6 – Dec 16)

**Goal:** Connect the pieces, secure the endpoints, and fix bugs.

### 1. Integration & Permissions

- **Role-Based Access Control (RBAC):** Ensure **only** users with role='admin' can access the /admin routes. If a normal user tries, redirect them to Home.
- **Forum Safety:** Implement the "Report" button on Forum threads/comments (FR-12.7).

### 2. Quality Assurance (QA)

- **Writing Detailed Scenario:** Develop a comprehensive, end-to-end test scenario for the entire system (Admin, Forum, and core features) to be used during final QA.
- **Test Scenario 6 (Admin):** Log in as Admin(Elizabeth), ban a test user, and verify they cannot log in.
- **Test Scenario 7 (Forum):** Create a thread as "Taylor," comment as "Alex," and verify the thread updates correctly.

### 3. Final Buffer (Dec 14-16)

- Reserve these two days for critical bug fixes and deployment preparation.(The app has been already deployed however some database migration problems might occur, test it before the demo.)
- Study the DEMO scenario that shows the system walkthrough and prepare for its rehearsal.

### Daily Schedule Overview

Dates	Focus Area	Key Deliverables
Nov 26 - Nov 28	DB & Models	Migrations for Threads, Comments, AdminLogs run successfully.
Nov 29 - Dec 2	API Logic	Endpoints for Posting threads and Banning users are working in Postman.
Dec 3 - Dec 5	Forum UI	Users can View, Create, and Reply to threads in the browser.
Dec 6 - Dec 7	Security/Polish	"Report" button works; Non-admins are blocked from Admin panel.

Dec 8 - Dec 13	QA Prep	Writing Detailed Scenario
Dec 14 - Dec 16	<b>Testing/Deploy and Preparing Scenario</b>	Full system walkthrough; Deploy to staging/production. Rehearsal the scenario by implementing each step of it.