Civic Connect Backend Development Report

Completed Work (Roughly 60%)

- 1. User Authentication System:
 - JWT-based login & register
 - Role-based middleware for route protection
- 2. User Role Segmentation:
 - userRoutes.js created and tested
 - adminRoutes.js created and fully implemented with controller
- 3. Admin Functionalities:
 - getAllUsers, getUserById, updateUserRole, deleteUser
 - getAllCandidates
- 4. Backend Folder Structure Standardized:
 - routes/, controllers/, models/, middleware/
- 5. User profile logic in place for basic GET/PUT requests

Work Remaining (Minimum Needed ~40%)

- 1. Candidate & Volunteer Features:
 - Create candidateRoutes.js and candidateController.js
 - Create volunteerRoutes.js and volunteerController.js
- 2. Region Support System:
 - Region model + assign users/candidates by region
 - Restrict access to region-based data where needed
- 3. Polling System (Virtual Election):

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- Poll model, Vote model, Poll controller
- Allow admin to create polls, users to vote, candidates to view results
- 4. Input Validation & Error Handling:
 - Use express-validator/Joi for input checks
 - Centralized error handler middleware
- 5. Security Enhancements:
 - Rate limiting, CORS, secure password hashing (if not already done)
 - Role-based API rate access (optional but useful)
- 6. Integration Preparation:
 - Ensure all routes align with frontend expectations
 - Modularize responses for better frontend consumption

Final Note

This report includes only the minimum necessary to get the backend fully functional.

Additional enhancements such as audit logs, analytics, notification systems, etc., can be added later.