 implemented the controllers and routes with the following features:

1. **Middleware**:
   * Authentication and authorization
   * Input validation using Joi
   * Rate limiting with Redis store
   * Error handling
   * Institution-based access control
2. **Controllers**:
   * User Controller (CRUD, status, roles)
   * Profile Controller (CRUD, avatar, preferences)
   * Role Controller (CRUD, permissions, hierarchy)
3. **Routes**:
   * User routes with proper authorization
   * Profile routes with file upload support
   * Role routes with rate limiting

Key features implemented:

1. **Security**:
   * Role-based access control
   * Rate limiting for sensitive operations
   * Input validation
   * File upload restrictions
   * Institution-based authorization
2. **API Features**:
   * Pagination
   * Sorting
   * Filtering
   * Search
   * File uploads
   * Bulk operations
3. **Response Format**:
   * Consistent JSON structure
   * Proper status codes
   * Error handling
   * Pagination metadata