 user service is complete with all necessary features:

1. Core User Management:
   * CRUD operations for users
   * Profile management
   * Role management
   * Status management
2. Authentication & Security:
   * Password management with bcrypt hashing
   * MFA setup and verification
   * Backup codes generation and verification
   * Email verification
3. Search & Filtering:
   * Basic search
   * Advanced search with multiple filters
   * Pagination support
   * Role-based filtering
4. Caching:
   * Redis-based caching
   * Cache invalidation
   * Efficient data retrieval
5. Event Publishing:
   * RabbitMQ integration
   * Event-driven architecture
   * Asynchronous processing
6. Bulk Operations:
   * Bulk user creation
   * Transaction support
   * Error handling
7. Activity Tracking:
   * Activity logging
   * Audit trail
   * User session tracking
8. Error Handling & Logging:
   * Comprehensive error handling
   * Detailed logging
   * Transaction rollback

The service is now ready for use with proper error handling, logging, caching, and event publishing. It follows best practices for security, performance, and maintainability.