 created a comprehensive set of files:

1. **Validation Schemas**:
   * **academic-program.schema.js**: Validates academic program data
   * **academic-calendar.schema.js**: Validates calendar, term, and event data
2. **API Documentation (OpenAPI/Swagger)**:
   * **academic-program.swagger.js**: Documents program endpoints
   * **academic-calendar.swagger.js**: Documents calendar endpoints
3. **Unit Tests**:
   * **academic-program.service.test.js**: Tests program service
   * **academic-calendar.service.test.js**: Tests calendar service

Key Features:

1. **Validation**:
   * Strict data validation using Joi
   * Custom validation rules for dates, codes, etc.
   * Comprehensive schema coverage
2. **API Documentation**:
   * Full OpenAPI 3.0 documentation
   * Detailed schema definitions
   * Authentication and authorization specs
   * Request/response examples
3. **Unit Tests**:
   * Comprehensive test coverage
   * Mock external dependencies
   * Error case handling
   * Integration testing with LMS