

Attorney Change and Attorney Company Implementation Documentation

Current Architecture

Database Structure

1. Single 'Attorneys' table with a 'CompanyName' column
2. Direct relationship to 'Organizations' table
3. Company information stored as string values

Current Limitations

1. Data Redundancy

- Company names stored repeatedly for each attorney
- Potential for inconsistencies in company naming
- No standardization of company information

2. Limited Company Information

- No ability to store company contact details
- No historical tracking of attorney-company relationships
- No way to manage company-specific data

3. Frontend Constraints

- Company selection based on string matching
- No validation of company names (i.e. duplicates)
- Difficult to maintain company data consistency/integrity

Proposed (Developed) Architecture

New Database Structure

1. Attorneys Table

- Removed 'CompanyName' column
- Maintains core attorney information
- Keeps organization relationship

2. New AttorneyCompany Table

- Dedicated storage for company information
- Proper fields for contact details
- Organization relationship maintained

3. New AttorneyCompanyLinks Table

- Many-to-many relationship
- Temporal tracking of relationships
- Active status tracking

Service Layer Changes

1. New AttorneyCompany Service

- Dedicated company management
- Proper separation of concerns
- Standardized CRUD operations

2. Modified Attorney Service

- Removed company-specific operations
- Cleaner, more focused responsibility
- Improved maintainability

Frontend Improvements

1. Enhanced Company Selection

- Dropdown populated from company table
- Consistent company names
- Add new company capability

2. Better User Experience

- Clear separation of company and attorney details
- Improved data validation
- More intuitive data entry

Benefits of New Architecture

1. Data Integrity

- Elimination of duplicate company names
- Consistent company information
- Proper relationship tracking
- Reduced risk of data inconsistencies

2. Flexibility

- Attorneys can be associated with multiple companies
- Historical tracking of company relationships
- Support for company transfers and changes
- Future-proof for additional company-related features

3. Maintainability

- Clear separation of concerns
- Proper service organization
- Easier to extend and modify

- Better code organization

4. User Experience

- More reliable company selection
- Improved data entry workflow
- Better data validation
- Clearer relationship management

5. Performance

- Reduced data redundancy
- More efficient queries
- Better indexing possibilities
- Improved data retrieval

6. Business Value

- Better tracking of attorney-company relationships
- Historical data for analysis
- Improved reporting capabilities
- Enhanced data quality for business decisions

Implementation Considerations

1. Data Migration

- Create new tables
- Migrate existing company names
- Create relationship records
- Validate data consistency

2. Backend Changes

- New controller endpoints
- Updated service layer
- Modified data access
- New validation rules

3. Frontend Updates

- New company management modal
- Updated forms and validation
- Modified data binding
- Enhanced user interface

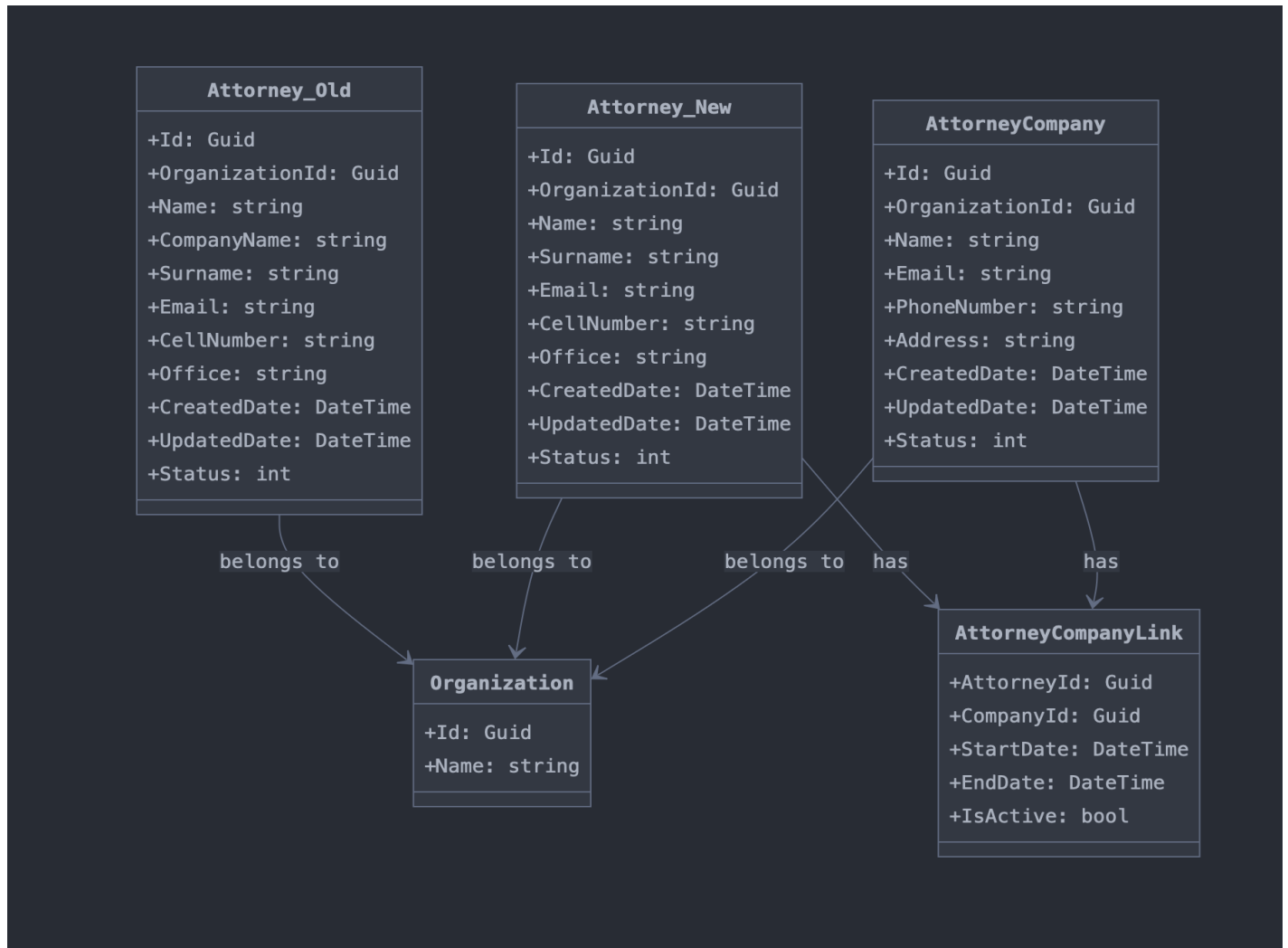
4. Testing Requirements

- Unit tests for new services
- Integration tests for relationships
- UI testing for new features

Total Working Hours

- Adjustment from 7 hours to 20
 - o This includes removing of duplicate data, create new companies, linking current users (Attorneys) to correct company,

Architectural Change Diagram



Summary

The key architectural changes include:

1. Moving from a simple string-based company reference to a proper relational model
2. Adding temporal tracking of attorney-company relationships
3. Improving data integrity and reducing redundancy
4. Providing better separation of concerns in the service layer