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IT410 – 001

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**Domain Driven Design Document**

**Events**

**User Account Events**

* User account created
* User account deleted
* User account updated
* User password updated

**Person Events**

* Person created
* Person deleted
* Person updated
* Person added to network
* Person removed from network
* Connection request sent to person
* Connection request accepted by person
* Person contacted
* Person replied

**Organization Events**

* Organization created
* Organization deleted
* Organization updated
* Organization added new location
* Organization added new position
* Organization rating changed

**Application Events**

* Application created
* Application deleted
* Application updated
* Application status changed

**Location Events**

* Location created
* Location deleted
* Location updated

**Position Events**

* Position created
* Position deleted
* Position updated

**File Events**

* File uploaded
* File deleted

**Session Events**

* Session created
* Session deleted
* Session expired

**­­­Commands**

**User Account Commands**

* Create user account
* Set user account data
* Update user account password
* Delete user account
* Authenticate user

**Person Commands**

* Create person
* Set person data
* Delete person
* Add person to network
* Remove person from network
* Set person date requested data
* Set person date added data
* Set person date contacted data
* Set person replied data

**Organization Commands**

* Create organization
* Set organization data
* Delete organization
* Add new organization location
* Add new organization position
* Set organization rating data

**Application Commands**

* Create application
* Set application data
* Delete application
* Set application status data

**Location Commands**

* Create location
* Set location data
* Delete location

**Position Commands**

* Create position
* Set position data
* Delete position

**File Commands**

* Upload file
* Delete file

**Session Commands**

* Create session
* Delete session

**Queries**

* Get account info
* Get person info
* Get list of persons based on network
* Get organization info
* Get list of organizations based on location
* Get list of organizations based on position
* Get application info
* Get list of applications based on organization
* Get list of applications based on position
* Get list of applications based on status
* Get location info
* Get position info
* Download file

**Entities**

**User Account**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| username | text | The user’s chosen display name |
| password | encrypted text | The user’s chosen password - encrypted |
| person id | UUID | The person ID for the user account’s root person |

**Person**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| first name | text | The person’s given first name |
| last name | text | The person’s last name |
| organization id | UUID | The organization ID for the organization where this person is employed |
| position id | UUID | The position ID for the position that the person holds at the organization they work at |
| network | list of UUIDs | A list of UUIDs for all the people that are in this person’s network and the root person’s network |
| date requested | date | The date that a connection request was sent (either by the user or by the person) |
| date added | date | The date that a connection request was accepted (either by the user or by the person) |
| date contacted | date | The date that a message was first sent between the user and the person |
| replied | boolean | Boolean value based on whether the recipient of the first message has responded to the initial message |
| description | text | A description of how the user met this person, why this connection is mutually beneficial, and any thoughts |

**Organization**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| name | text | The name of the organization |
| locations | list of UUIDs | A list containing the UUIDs for all the locations where this organization has an office |
| positions | list of UUIDs | A list containing the UUIDs for all positions where the user has seen available at this organization |
| rating | number | A number between 0-10 where the user can rate how much they would like to work at this organization (0 being no desire, 10 being must work there) |
| description | text | A description of the organization, why this organization might stand out, and any thoughts |

**Application**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| organization id | UUID | The organization ID for the organization that offered this application |
| position id | UUID | The position ID for the position that this application describes |
| files | list of UUIDs | A list containing the UUIDs for all files related to this application (i.e. resumes, cover letters, etc.) |
| status | number | A number between 0-8 that reflects the stage that this application is at (0: no response from organization; 1: response received but rejected; 2: response received and interview process underway; 3: interview process failed; 4 interview process successful and offer negotiation underway; 5: unable to negotiate offer; 6: offer negotiated and accepted; 7: user ended application process; 8: no response from organization and user has given up waiting) |
| date submitted | date | The date that the application was submitted |
| description | text | The application description |
| notes | text | Any notes that the user feels are relevant to the application, how the user came across the application, why the user submitted this application, and any thoughts |

**Value Objects**

**Location**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| name | text | The name of the location |
| description | text | A description of the location, pros/cons of living in this location, and any thoughts |

**Position**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| name | text | The name of the position |
| description | text | A description of the position, skills to be successful in this position, and any thoughts |

**File**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier |
| name | text | The name of the file |
| mime type | text | The mime type of the file |
| file path | text | The location of the file |

**Session**

|  |  |  |
| --- | --- | --- |
| **Property** | **Type** | **Description** |
| id | UUID | Automatically generated, immutable, unique identifier which provides auth for the session |
| user id | UUID | The user ID for the authenticated user |
| expiration | date | The time/date that the session id/token will become invalid |