**Data Design Documentation**

For

**Project: (NSW) Natsuko’s Sharing Site**

Date updated: June 18, 2017

## Intellectual Property

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## Audience

The audience of this document is intended to consist of only **Anthony Charles Nicholls** (hereinafter, “**The Owner**”), and those interested in investing property or equity in **Anthony Charles Nicholls** (hereinafter “**Assisting Party.**”)

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## Data Requirements

The data for this project will be stored in an SQL database. The database has the potential to grow quite large quite quickly since photos will be stored within the database. It is possible to store the photos in a MySQL database since GoDaddy.com allows for larger MySQL databases. But for simplicity’s sake, everything should fit quite nicely in a 200MB SQL database. Stored procedures should be used for all insert and update functions, deletes can be handled via hard coded direct text to SQL commands. When a post is set to SOLD or CANCELLED, the related photos should be removed to save space in the database.

### Data Entities

#### Users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Entity |  | **Users** |  |
|  |  |  |  |  |
|  | Attributes |  | User ID |  |
|  |  |  | User Name |  |
|  |  |  | User Password |  |
|  |  |  | User Email |  |
|  |  |  | User Phone |  |
|  |  |  | User PostalCode |  |
|  |  |  | User Role |  |
|  |  |  | User LangPref |  |
|  |  |  | User IntakeDate |  |
|  |  |  | User ChangeDate |  |
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#### Posts

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|  |  |  |  |  |
|  | Entity |  | **Post** |  |
|  |  |  |  |  |
|  | Attributes |  | Post ID |  |
|  |  |  | Post Category ID |  |
|  |  |  | Post Title |  |
|  |  |  | Post Description |  |
|  |  |  | Post Price |  |
|  |  |  | Post Expiry Date |  |
|  |  |  | Post User ID |  |
|  |  |  | Post Status |  |
|  |  |  | Post Deletion Flag |  |
|  |  |  | Post Intake Date |  |
|  |  |  | Post Change Date |  |
|  |  |  | Post email Sent |  |
|  |  |  | Post Renewed |  |
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#### Post Categories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Entity |  | **Categories** |  |
|  |  |  |  |  |
|  | Attributes |  | Category ID |  |
|  |  |  | Category English |  |
|  |  |  | Category Japanese |  |
|  |  |  | Category Description English |  |
|  |  |  | Category Description Japanese |  |
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#### LabelText

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Entity |  | **LabelText** |  |
|  |  |  |  |  |
|  | Attributes |  | Label ID |  |
|  |  |  | English Text |  |
|  |  |  | Japanese Text |  |
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#### Postal Codes

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Entity |  | **PostalCodes** |  |
|  |  |  |  |  |
|  | Attributes |  | PostalCode |  |
|  |  |  | Latitude |  |
|  |  |  | Longitude |  |
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#### Site Log

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|  |  |  |  |  |
|  | Entity |  | **Site Log** |  |
|  |  |  |  |  |
|  | Attributes |  | Log ID |  |
|  |  |  | Log Date |  |
|  |  |  | Log Caller |  |
|  |  |  | Log Message |  |
|  |  |  | Log Importance |  |
|  |  |  | Log Intake Date |  |
|  |  |  | Log Change Date |  |
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### Data Elements

#### Users

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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_ID |  |
| Alias | User ID |  |
| Definition | The primary key value of the user’s row |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 99 |  |
| Units |  |  |
| Range of Values | 1 to infinity |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_name |  |
| Alias | User Name |  |
| Definition | The friendly name of a user |  |
| Type | Varchar |  |
| Length | 50 |  |
| Picture | xxxx(50) |  |
| Units |  |  |
| Range of Values | a-z,A-Z,0-9,symbols |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_Password |  |
| Alias | User Password |  |
| Definition | The user’s chosen password |  |
| Type | varchar |  |
| Length | 100 |  |
| Picture | Xxx(100) |  |
| Units |  |  |
| Range of Values | a-z,A-Z,0-9,symbols |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_email |  |
| Alias | User Email |  |
| Definition | The user’s email address |  |
| Type | Varchar |  |
| Length | 50 |  |
| Picture | X(50) |  |
| Units |  |  |
| Range of Values | a-z,A-Z,0-9,symbols |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_phone |  |
| Alias | User Phone |  |
| Definition | A user’s phone number |  |
| Type | Varchar |  |
| Length | 9 |  |
| Picture | 999999999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_PostalCode |  |
| Alias | User Postal Code |  |
| Definition | The locale of the user |  |
| Type | Varchar |  |
| Length | 15 |  |
| Picture | X(15) |  |
| Units |  |  |
| Range of Values | a-z, A-Z,0-9 |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_role |  |
| Alias | User Role |  |
| Definition | The role of the user |  |
| Type | Varchar |  |
| Length | 15 |  |
| Picture | X(15) |  |
| Units |  |  |
| Range of Values | ADMIN, MEMBER |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_IntakeDate |  |
| Alias | User’s intake date |  |
| Definition | The date that the user first became a member of the site |  |
| Type | datetime |  |
| Length | 8 |  |
| Picture | 9999-99-99 |  |
| Units |  |  |
| Range of Values | Valid dates |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_ChangeDate |  |
| Alias | User’s Change date |  |
| Definition | The date that the user made changes to their account information |  |
| Type | datetime |  |
| Length | 8 |  |
| Picture | 9999-99-99 |  |
| Units |  |  |
| Range of Values | Valid dates |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldUser\_langPref |  |
| Alias | User’s display language preference |  |
| Definition | The language the user prefers the site to display in |  |
| Type | int |  |
| Length | 1 |  |
| Picture | X(1) |  |
| Units |  |  |
| Range of Values | 1,2 |  |
|  |  |  |

#### Posts

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_id |  |
| Alias | Post ID |  |
| Definition | The identifier of the post data row |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_CatID |  |
| Alias | Post Category ID |  |
| Definition | The category identifier of the post |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_title |  |
| Alias | Post Title |  |
| Definition | The displayed title of the post |  |
| Type | Varchar |  |
| Length | 50 |  |
| Picture | X(50) |  |
| Units |  |  |
| Range of Values | a-z, A-Z, 0-9, symbols |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_desc |  |
| Alias | Post Description |  |
| Definition | The displayed text that of the post |  |
| Type | Varchar |  |
| Length | 4000 |  |
| Picture | X(4000) |  |
| Units |  |  |
| Range of Values | a-z, A-Z, 0-9, symbols |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_price |  |
| Alias | Post Price |  |
| Definition | The requested price of the post |  |
| Type | Money |  |
| Length | 8 |  |
| Picture | $999999.99 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_expiry |  |
| Alias | Post Expiry Date |  |
| Definition | The date the post will expire and be removed from view |  |
| Type | Date |  |
| Length | 8 |  |
| Picture | 9999-99-99 |  |
| Units |  |  |
| Range of Values | Valid dates |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_userID |  |
| Alias | Post User ID |  |
| Definition | The identifier of the user who entered the post |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_status |  |
| Alias | Post Status |  |
| Definition | The status of the post |  |
| Type | Varchar |  |
| Length | 15 |  |
| Picture | X(15) |  |
| Units |  |  |
| Range of Values | ACTIVE, EXPIRED, SOLD |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_delete |  |
| Alias | Post Deletion Flag |  |
| Definition | The marker for the program to not display and to delete this row |  |
| Type | Bit |  |
| Length | 2 |  |
| Picture | X |  |
| Units |  |  |
| Range of Values | 0,1 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_emailSent |  |
| Alias | Post expiry email sent |  |
| Definition | Denotes whether the system has already sent an email regarding the expiry of this post |  |
| Type | Bit |  |
| Length | 2 |  |
| Picture | X |  |
| Units |  |  |
| Range of Values | 0,1 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_renewed |  |
| Alias | Post renewal Flag |  |
| Definition | Denotes whether the user has already renewed this post beofre |  |
| Type | Bit |  |
| Length | 2 |  |
| Picture | X |  |
| Units |  |  |
| Range of Values | 0,1 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_intakeDate |  |
| Alias | Post insertion date |  |
| Definition | Shows the initial insertion of this post into the database |  |
| Type | datetime |  |
| Length | 8 |  |
| Picture | 9999-99-99 |  |
| Units |  |  |
| Range of Values | Valid dates |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Data Element | fldPost\_changeDate |  |
| Alias | Post Change Date |  |
| Definition | Shows when the user made changes to this post |  |
| Type | datetime |  |
| Length | 8 |  |
| Picture | 9999-99-99 |  |
| Units |  |  |
| Range of Values | Valid dates |  |
|  |  |  |

#### Post Categories

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Data Element | fldPostCategory\_id |  |
| Alias | Post Category ID |  |
| Definition | The identifier of the category |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostCategory\_English |  |
| Alias | Post Category Name in English |  |
| Definition | The name of the category that the item will be displayed in |  |
| Type | nVarchar |  |
| Length | 50 |  |
| Picture | X(50) |  |
| Units |  |  |
| Range of Values | a-z, A-Z |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostCategory\_Japanesee |  |
| Alias | Post Category Name in Japanese |  |
| Definition | The name of the category that the item will be displayed in, in Japanese |  |
| Type | nVarchar |  |
| Length | 50 |  |
| Picture | X(50) |  |
| Units |  |  |
| Range of Values | a-z, A-Z |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostCategory\_DescEnglish |  |
| Alias | Post Category Description in English |  |
| Definition | The description of the category that the item will be displayed in, in english |  |
| Type | nVarchar |  |
| Length | max |  |
| Picture | X(max) |  |
| Units |  |  |
| Range of Values | a-z, A-Z |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostCategory\_DescJapanese |  |
| Alias | Post Category Description, in Japanese |  |
| Definition | The Description of the category that the item will be displayed in, in Japanese |  |
| Type | nVarchar |  |
| Length | max |  |
| Picture | X(max) |  |
| Units |  |  |
| Range of Values | a-z, A-Z |  |
|  |  |  |

#### LabelText

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Data Element | fldLabel\_id |  |
| Alias | Label ID |  |
| Definition | The identifier of the Label |  |
| Type | Int |  |
| Length | 4 |  |
| Picture | 9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldLabel\_English |  |
| Alias | Label Text English |  |
| Definition | The English text for the label |  |
| Type | nvarchar |  |
| Length | 4000 |  |
| Picture | X(4000) |  |
| Units |  |  |
| Range of Values | a-z, A-Z, 0-9, symbols |  |
|  |  |  |

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| --- | --- | --- |
|  |  |  |
| Data Element | fldLabel\_Japanese |  |
| Alias | Label Text Japanese |  |
| Definition | The Japanese text for the label |  |
| Type | nvarchar |  |
| Length | 4000 |  |
| Picture | X(4000) |  |
| Units |  |  |
| Range of Values | Kanji Characters |  |
|  |  |  |

#### Postal Codes

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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostal\_code |  |
| Alias | Postal Code |  |
| Definition | The primary key value of the postal code row |  |
| Type | Varchar |  |
| Length | 7 |  |
| Picture | Xxxxxxx |  |
| Units |  |  |
| Range of Values | Postal Codes from Japan’s Nagano Prefecture |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostal\_longitude |  |
| Alias | Postal Longitude |  |
| Definition | The longitude value of the postal code |  |
| Type | decimal |  |
| Length | 8 |  |
| Picture | 999.9999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
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| --- | --- | --- |
|  |  |  |
| Data Element | fldPostal\_latitude |  |
| Alias | Postal Latitude |  |
| Definition | The latitude value of the postal code |  |
| Type | decimal |  |
| Length | 8 |  |
| Picture | 999.999 |  |
| Units |  |  |
| Range of Values | 0-9 |  |
|  |  |  |