



DATA TYPE DEFINITION

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PROPRIETARY INFORMATION

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1 Data Type Definition

The application connects to a Microsoft SQL server database. The database resides on a Hosted server with only the Ports necessary to provide communication through any firewalls to the web server open.

1.1 Database Security

Authenticated Users will only be authorized to access the database through the web application. The database will internally maintain the user IDs and Passwords of individuals authorized to access the system. The application will validate user ID and Password against the database. The passwords stored in the database will be encrypted in order to prevent unauthorized access to the application. An SQL connection is made dynamically with a connection string to protect authentication credentials.

1.2 Entity Relationship Diagram (ERD) Legend:

- **PK** = Primary key
- **FK** = Foreign Key (Primary key in another table)
- **Bold** = Required Field
- **UI** = Unique Constraint

1.3 Data Dictionary

The database consists of the following tables:

- **Web Site Content Management**
 - **Page**: Contains website Page information
 - **Paragraphs**: Contains Paragraph text
 - **ParagraphLinks**: Contains Paragraph links
 - **TextBlocks**: Contains copy Text information
 - **Buttons**: Contains navigation Button information
 - **Links**: Contains URL link information
 - **User Profiles**

The database tables are shown below:

1.4 Page

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
ParentID (FK)	Integer	Unique Identifier, self referencing table
DisplayName	nvarchar (256)	Page Display Name - Required
Title	nvarchar (max)	Page Title Name - Required
Path	nvarchar (max)	Page navigation/relationship
TitlesEditable	Bit	editable Y/N - Required

1.5 Paragraphs

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
DisplayName	nvarchar (256)	Page Display Name - Required
Text	nvarchar (max)	Page Text - Required
Header	nvarchar (max)	Page Header - Required
TextIsEditable	Bit	editable Y/N - Required
HeaderIsEditable	Bit	editable Y/N - Required

1.6 ParagraphLinks

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
DisplayName	nvarchar (256)	Page Display Name - Required
ParagraphText	nvarchar (max)	Text - Required
ParagraphHeader	nvarchar (max)	Header - Required
LinkText	nvarchar (max)	Link text - Required
LinkURL	nvarchar (max)	Link URL - Required
ParagraphTextIsEditable	Bit	editable Y/N - Required
ParagraphHeaderIsEditable	Bit	editable Y/N - Required
LinkTextIsEditable	Bit	editable Y/N - Required
LinkURLIsEditable	Bit	editable Y/N - Required
HeaderIsLink	Bit	editable Y/N - Required

1.7 TextBlocks

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
DisplayName	nvarchar (256)	Page Display Name - Required
Text	nvarchar (max)	Text - Required
TextIsEditable	Bit	editable Y/N - Required

1.8 Buttons

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
DisplayName	nvarchar (256)	Display Name - Required
Text	nvarchar (max)	Text - Required
TextIsEditable	Bit	editable Y/N - Required

1.9 Links

Name	Type	Description
ID (PK)	Integer	Primary Key, Unique Identifier
DisplayName	nvarchar (256)	Page Display Name - Required
Text	nvarchar (max)	Text - Required
ImageURL	nvarchar (max)	Image URL
URL	nvarchar (max)	Text URL
TextIsEditable	Bit	editable Y/N - Required
URLIsEditable	Bit	editable Y/N - Required
ImageURLIsEditable	Bit	editable Y/N - Required

1.10 Web CMS Entity Relationship Diagram (ERD)

