



What is DataMaster?

- DataMaster is a custom application development tool providing an array of database, user interface and reporting services.

Why DataMaster?

- DataMaster is cost-effective
 - ❑ Custom software is very expensive.
 - ❑ COTS software is inflexible and falls short of meeting specific needs.
 - ❑ DataMaster offers a better custom software option, which is cost-effective because it's built around a common architecture. In much the same way the MS Windows GUI or the World Wide Web are common architectures for the user interface, DataMaster is a common architecture for custom business applications.
- DataMaster includes MultiValue Database
 - ❑ As its name implies, every field in the underlying file structure is of variable length and can be multi valued and even multi sub-valued.
 - ❑ Just as the drawers and folders of your filing cabinet impose no logical constraints on the number of papers or folders you can put in them, likewise a MultiValue database does not either.
 - ❑ With MultiValue, what should be simple **is** simple. The application designers are free to model complex data entities and relationships without the constraints imposed by fixed length architectures. This results in a design that is natural and easily understood by those without a technical background in database technology.
- DataMaster provides separation of the application's business rules from the user interface
 - ❑ A common code base providing all application screens with the same feel and functionality, DataMaster uses definition templates rather than generated code.
 - ❑ Specialized customization and business rule implementation is done through hooks into every event in the flow of DataMaster's operation. This allows the developer to take as much control of the flow as necessary without losing the generic functionality of the core.
- DataMaster provides an easy upgrade path to new technologies
 - ❑ As the computer industry evolves, DataMaster will continue to integrate new and emerging technologies, allowing your application to grow and improve without costly rewrites and data conversions.
 - ❑ Business rules can be centralized and tucked away while the application changes around them.
 - ❑ DataMaster currently can provide data to the Web, SQL, and Windows applications, as well as reading and writing to Oracle and other industry standard databases.
 - ❑ DataMaster can automatically send emails, generate DHTML pages, send faxes, interface with credit card authorization services, and print and scan barcodes.

- In a nutshell, DataMaster provides you with easy and cost-effective ways to tailor an application to your working environment. DataMaster allows you to focus on your business rules and data structure.

Standard DataMaster Feature Overview

- Hierarchical menu system that is searchable and can be quickly changed or customized.
- Appearance, menu selection, printing defaults and many other parts of DataMaster can be configured per user, group, account, or system level.
- Screens consist of fields which can be fixed length, variable length, check boxes, radio buttons, date, numeric, image display, buttons, or word wrapping text.
- All standard database field options such as defaults, validation, lookups, calculations, mandatory, display only, data indexing, etc. are available.
- Multiple fields can be grouped so that multi-valued fields can be viewed together. Multi-valued fields can be set up in a spreadsheet-like windowing format.
- Any field on a screen can be used to query a file, via the same forms used for data entry.
- A powerful screen design tool makes layout, file structure and field option changes easy and cost-effective.
- Simple or complex reports and labels can be created. These reports can be printed, sent to another program, or viewed. Reports give you access to any of your data using whatever filtering criteria make sense.
- Applications can be viewed on a variety of platforms, ranging from MS Windows Graphical User Interface (GUI) to “green screen” terminal emulators and even true terminals.
- The GUI version takes full advantage of the rich set of user interface tools available in the Win32 API, including toolbars, tabs, drop-down combo boxes and all the familiar Windows features. At the same time, the “green screen” user can still use your application without losing functionality, and without creating multiple versions of your application.
- Remote access to your application is available through an Internet connection or via a modem connection.
- User and Group-level security features allow control over report, screen and field access by security level, password and/or a password-protected security level increase option.
- DataMaster has built in support for live, test and development copies of an application. This allows the developer to enhance your application safely on the development account and push the changes to the test account for the test phase. Upon approval, enhancements are pushed to the live version.
- Built in source code control allows a trail of application changes, and synchronization of the core of DataMaster with the latest version from JGA.
- Logging options allow management to trace data changes, deletions and additions.
- Batch mode allows records to be deleted or changed as a group using a queried list.
- A list produced by a user’s query or a canned query can be stored and modified. A list can be passed from a screen to a report, or from one screen to another, operating as a pipeline where the results of one are passed as the input to another. This gives the user a great deal of flexibility for changing, reporting, exporting or purging data.
- Relationships between files allow quick traversal from one screen to related screen in a sense “drilling” down to the details of your data.