**ERD Reporting Solution**

**Vision**

Provide a flexible dynamic manner to print reports directly from the database.

**Required Functionality**

* Must be user defined.
* Allow for custom dll execution to manage data such as binary fields
* Allow for custom text where data fields are nor displayable, such as documents set as blob types
* Make use of existing table and column structures to set captions dynamically
* Make use of both actual relations and virtual relations to build SQL Queries
* Create Separate Cover page and Headers and Footers Sections
* Create Options to have either a flat file of DB driven reporting solution
* For DB driven solution, have a Report Access control
* Create a Website for report selection and printing.
* Ability to update database on print. This is to set certain fields to indicate that a report was printed or not.
* Accept any number of parameters

**Design and Coding**

**Desktop**

From the ERD application create a separate modular environment to setup the data structure and report setup. This space should be used for report building, editing management and printing.

This function must have the following functionality.

* Allow the user to either use a file structure or a database structure for report setup and storage (Database Recommended)
* Ability to Setup and Edit:
  + Report Cover Pages
  + Report Headers and Footers
  + Report content
* Allow multiple databases as data sources for the reports data source during run time. This option must set a default production data source
* Display the SQL Query to execute for the report data retrieval
* For each table in the table hierarchy the repot should print in the following order
  + Cover page (If Selected)
  + Page Header (Required)
    - Parent Table Header
    - Parent Table Content
      * Child Table Header
      * Child Table Content
      * Child Table Footer
    - Parent Table Footer
  + Page Footer (Required)
  + Back page (If Selected)
* Have a section to setup user logon information.
* Have a section to setup user report access.

**Website**

The web site would be to section where the users interact with the reporting solution to print reports. This is not intended for report building but printing.

* Provide a URL for direct printing
  + Requires:
    - User credentials
    - Report parameters
* Provide a Space for User logon, and report Selection

All Reports must print to PDF or Xps and may not make use of any license to do so.

**Report XML Structure Sample**

**Root Element**

Name: <ROOT>

Attributes:

**Report Setup**

Name: <Setup>

Attributes:

* Orientation
* Paper Size

**Table Element**

Name: <TableSection>

Attributes:

* SectionType (Header, Content, Footer)

Recommended