Functional Requirements

1. Store Data

This section contains all the factors required for store data: Prototype, Volume Class, Org Chart, Region #, Group #, Dist. #, Peer Group, Dollar Productivity, Shopped Hard USP (SH), Socio-Economic USP (SE), [Guest Survey (GS) which includes Overall Percent Amazed (PA), Customer Service (CS), Electronics and Entertainment (EE), Baby & Kids (BK)], and Visit (already chosen stores (Y) and Guest Survey elite stores (GS))

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| **No.** | **Description** |
| 1.1 | A Store’s profile should contain all the factors listed above in an Excel table format |
| 1.2 | The system will use this data and create a Prototype percentage pie graph, using the types of different prototypes and their frequencies |
| 1.3 | Using the different Volume Classes, the system will create a histogram with respect to each volume class and its frequencies |
| 1.4 | Furthermore, another histogram will be created by grouping each Prototype with respect to its Volume classes |
| 1.5 | For the Group Survey, a histogram and a box plot will be created for PA, CS, EE, and BK. The system will calculate quartiles , and other summary statistics |
| 1.6 | Using the data of the categories for Group Survey, the system will display a figure to show in which percentile each store is for each categories, and also show data for the additional stores and which percentile they are in |
| 1.7 | Data for Additional Stores is assumed to be provided with prototypes, Volume classes etc |
| 1.8 | Displays a map of where the additional stores are located |
| 1.9 | Using the dollar production value, for each year data is provided a histogram is created for that year with respect to dollar production |
| 1.10 | The Dollar Production is compared with each Volume class, so we can see how skewed certain stores are toward Volume Classes |
| 1.11 | The system will also produce Dollar production vs Volume class with additional stores, to see how they affect the data |
| 1.12 | Using the Phases, a Day/Hour analysis is created for each stores |
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1. Users

This section deals with the different types of users required to use this system and how they should be managed.

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| **No.** | **Description** |
| 2.1 | One main administrator or a group of administrators take care of the system, granting access to other users who need it |
| 2.2 | Admins can lock out all users from editing anything in the system for a period of time. |
| 2.3 | Admins can mass-edit data in the system if needed too |

1. Security

This section deals with the different [levels of access](#_Level_of_access) for each user type.

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| **No.** | **Description** |
| 3.1 | The system should allow different levels of access for each user type. (Read, Write ) |
| 3.2 | Users’ levels of access are customizable and can be field specific. |

1. [Reporting](#_Report)

This section contains requirements on the types of data that need to be reported on as well as some of the features of the [report types](#_Report_type) and users’ levels of access to them.

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| **No.** | **Description** |
| 4.1 | The system should support reporting on chosen store data and various other fields, choosing which kind of statistics needed to be printed out |
| 4.2 | Users can decide what information they want displayed on a report |
| 4.3 | The system should support reporting on a select graphs, charts etc. |
| 4.4 | Admins can [create](#_Create_(a_report), delete and [run](#_Run_(a_report)) [custom report types](#_Custom_report_type) by selecting specific skills and other fields to report on. |
| 4.5 | The system should support different levels of access to report types. |
| 4.6 | The system should be able to export reports as text files. |

1. Notifications

This section defines the kinds of notifications there are, when they should be sent and to whom.

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| **No.** | **Description** |
| 5.1 | The system should notify clients by email to update their data once a month to check in if anything has changed. |
| 5.2 | When client-users make changes to their data, and email should be sent to them of the changes they have made |
| 5.3 | The system should notify all users when system is going into any maintenance |

1. Auditing and Error Logging

This section deals with keeping logs of any important data such as changes made in the system and errors that have occurred in the system.

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| **No.** | **Description** |
| 6.1 | A record of the changes is kept containing information such as the type of change, what the old value was, what the new value is, who made the change and when the change was made. |
| 6.2 | The system should keep an error log and notify the user when an error occurs. |

1. Interfaces

This section is about how this system is going to be used and what other systems it should connect to.

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| **No.** | **Description** |
| 7.1 | The system should be able to connect to the client’s database to gather data |
| 7.2 | The system should be accessible to users in the office or at home. |
| 7.3 | Users should be able to upload profiles and skills to the system from an [offline form](#_Offline_form). |