

DataMaster: Software Requirements Specification

DnD

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Credits

Name	Date	Role	Version
Griffin Aswegan	October 3, 2018	Author	1.0
Steven Bradley	October 3, 2018	Author	1.0
Christina Daley	October 3, 2018	Author	1.0
Larry Hu	October 3, 2018	Author	1.0
Shane Villalpando	October 3, 2018	Author	1.0
Dustyn Zierman-Felix	October 3, 2018	Author	1.0

Revision History

Name	Date	Reason for Changes	Version
Team DnD	October 23, 2018	Revised present content after review from Customer	2.0
Griffin Aswegan	October 8, 2018	Cleanup of Initial Revision	1.2
Christina Daley	October 11, 2018	Revise Intro	1.1
Team DnD	October 8, 2018	Initial Revision	1.0

1 Introduction

1.1 Purpose

This document presents the requirements, restrictions, and limitations of the DataMaster. It will serve as a guideline for the functionality of the software, including major features, functional requirements, non-functional constraints, and other potential features that should be met.

1.2 Document Conventions

This document shall adhere to the following formatting conventions:

1. All documents referenced will be italicized as such:
Software Requirements Specification
Links to said documents can be found in the Appendix.
2. All Functional requirements will be labeled "FR-X", where X is based on the ordering provided in section 2.2.
3. All Nonfunctional requirements will be labeled "NFR-X", where X is based on the ordering provided in section 6.
4. All External Interface requirements will be outlined in section 5 in greater detail.

1.3 Intended Audience and Reading Suggestions

1.3.1 MarkLogic

This document has been written with MarkLogic in mind, the primary benefactors of DataMasters. A suggested reading order for MarkLogic is as such:

1. Product Perspective
2. Functional Requirements
3. Non-functional Requirements
4. System Features

1.3.2 Professor Bruno da Silva

This document has been written with Professor Bruno da Silva in mind, the professor of the 405 Capstone class. A suggested reading order for da Silva is as such:

1. Product Perspective
2. Functional Requirements
3. Non-functional Requirements
4. User Personas
5. Use Cases
6. System Features

1.4 Project Scope

The main goal of this project is to provide a system that lets users classify and organize large pools of data sets within their databases. The project will organize and tag data sets based on the column names found within the data sets. For further information, please refer to the team's *Vision and Scope* document in the Appendix below.

1.5 References

None, so far.

2 Overall Description

2.1 Product Perspective

Data has been exploding in technological popularity over the last decade. Data is used to predict advertising, manage personal data, track relevant user data, and manage important information. Modern data analysts skim through hundreds to thousands of data sets per day in order to find new information and relationships in that data, however searching through data sets can be a slow and laborious process. Our intent is to design a product that makes it easier to classify data sets and search through similar data sets to find new relationships and organize similar data sets through the data inside those sets.

2.2 Functional Requirements

FR-1a	The system shall classify data sets, provided by the user, based on data within the data set.
FR-1b	The system shall have already-existing common classifications for the system to use.
FR-1c	The system shall learn new classifications using Machine Learning.
FR-2a	The system shall allow users to manually classify data sets.
FR-2b	The system shall allow users to manually edit the classifications given to data sets..
FR-2c	The system shall allow users to manually add and remove classified data sets. clarify what a data set s - is it a single file, or is it a collection of files? There are multiple files to a single census data set, so are those files a data set?
FR-2d	The system shall have a feature to classify multiple data sets at a time.
FR-3	The system shall allow users to search for data sets using keywords.
FR-4	The system shall have the ability to find relationships between multiple data sets.
FR-5	The system shall have the ability to output an organized graph of all user-specified connections.
FR-6	The system shall have the ability to let users download the classification information as well as the data sets.

FR-7	The system shall have the ability to tag certain classifications with information about that label, such as "Contact Information" or "Sensitive".
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2.3 Operating Environment

This software has two parts - a server side management piece, and a client-side interface. The server side management piece is expected to run in any popular Linux distribution, such as Ubuntu or Debian. The client-side interface is expected to run in any popular modern web browser, such as Mozilla Firefox, and Google Chrome. The client-side piece interfaces with the server-side piece to provide multiple, concurrent users different data.

2.4 Design and Implementation Constraints

None, so far.

2.5 User Classes and Characteristics

User Class	Description
Database Manager	A user that manages multiple data sets in a database.
Database User	A user that utilizes the capability of a database for their business.
Database Analyst	A user that analyzes data within databases to find unusual relationships or information.
Data Scientist	A user that uses data to make inferences about both that data and other data.
DBMS Designer	A user that designed database management software.

2.6 User Personas

2.6.1 George Willis

Author: Larry Hu

Age: 35

Occupation: Database Analyst, Manager

Technological Level: Basic to Intermediate

George works at a bank. George receives a list of clients to update in the database every week. His goal is to insert the client's data inside the database and categorize what kind of client they are and what kind of investments they do. He also needs the ability to adjust Client info and access private information. George is only proficient enough to add the data through the client side of the website so the

website has to be very simple and intuitive to use.

2.6.2 Patricia Martinez

Age: 46

Occupation: Registered Nurse

Technological Level: Basic

Patricia Martinez is a 44 year old registered nurse. She works in Loomis, California for a insurance company. Patricia is a mother to two kids and spends her time either at work or with her kids and family. Patricia went to school thirty years ago and has watched technology progress in her field and the world. She is not very technologically savvy but has been able to pick up any necessary tech for her job. Working in a specialized clinic Patricia receives and handles patients and their patient information from other clinics. Patricia handles files sent from different clinics and health care providers of patients and uploads this non-uniformed data into –Product Name–. She then uses –Product Name– to search for patients and update their information during and after consultations. –Product Name– is simple to use for Patricia. It’s ability to classify differing kinds of patient information and organize it in a way Patricia can use it allows Patricia and the clinic to be efficient.

2.6.3 Jeffrey Miles

Age: 27

Occupation: Database Manager

Technological Level: Expert

Jeffrey Miles works as a database manager for "The Fictional Company" which handles a massive amount of data on a daily basis from multiple customers. With how the database is set up, each customer has their own database that keeps track of their own separate fields, and sometimes Jeffrey struggles keeping everything collected and organized, especially when one of the customers updates their databases with new data or fields. Jeffrey is looking for a way to keep a consistent naming convention between all of his data sets without modifying the data sets.

2.6.4 Thomas Cadillac

Age: 33

Occupation: Database Manager

Technological Level: Expert

Thomas Cadillac is a thirty-three year old database manager who loves dissecting and integrating data. He often feels that the data he is working with gets classified into too many categories and he has trouble integrating all of his data sets in a maintainable fashion. He thinks there could be a better way to classify files in

order to have more data in the same place, which would make his dissecting of data more effective.

2.6.5 Greg Barkley

Age: 41

Occupation: Zookeeper

Technological Level: Intermediate

Greg Barkley is a 41 year old zookeeper. Greg had aspirations of becoming a veterinarian after finishing school, but when he was unable to pay for medical school he decided that he wanted to become a zookeeper instead. At the zoo, Greg is responsible for keeping track of the normal habits of the elephants. Everyday, he records information about the elephants and stores in a database. The zoo uses multiple, varying data sets to keep track of each elephant, and they all have different naming conventions. Greg is looking for a way to collect each data set together and have similar information stay under the same name.

2.6.6 Ryan Janzen

Age: 55

Occupation: Business Owner

Technological Level: Intermediate

Ryan Janzen is a 55 year old business owner that works in Los Angeles, California. Because Ryan deals with private information, his clients expect their personal information to be safe. However, keeping track of multiple customer's data is a struggle, since they all have different types of information under different labels. Greg wants a way to be able to not only keep all of the information organized and cleanly, but also find-able on short notice, without touching said data.

2.7 User Documentation

Developers will be keeping track of all progress on the application using JIRA, and will produce more documentation as the need arises. Preliminary documentation that will be produced include this document, the *Software Requirements Specification*, a *Vision and Scope* document, multiple UML diagrams pertaining to the architecture of the product, and user interface mock-ups for review and testing.

3 Use Cases

3.1 Use Case 1: Upload Data Set Files

Use Case ID:	1
Use Case Name:	Upload and Update Data
Created By:	Christina Daley
Last Updated By:	Christina Daley
Date Created:	October 9, 2018
Date Last Updated:	October 30, 2018
Actors:	Patricia
Description:	A user has one or more data sets they want to upload.
Preconditions:	1. The user is logged into the system.
Postconditions:	None
Normal Flow:	<p>1.0 Upload Data Set Files</p> <ol style="list-style-type: none"> 1. The user opens the home page of the web portal. 2. The system displays the home page, and a list of projects. 3. The user selects the project they wish to add data sets to. 4. The system displays information about said project, and an “Add Data set” button. 5. The user clicks “Add Data set” at the bottom of the page. 6. The system prompts the user to drag-and-drop the files to be classified into the browser. 7. The user drags data sets into browser, and clicks “Upload”. 8. The system uploads the files to a database and adds the files to the project.

Alternative Flow:	<p>1.1 Cancelling the Upload If, at any point during the "upload" process after step 3, the user clicks "Cancel" they will be brought back to the homepage, and the files will not be uploaded.</p> <p>1.2 Uploading and Classifying If, during step 7, the user instead clicks "Upload And Classify", the use case will proceed normally, but will continue onto Use Case 3 after step 8 finishes.</p>
Exceptions:	None
Includes:	FR-1a, FR-1b, FR-1c, FR-8, NFR-E
Priority:	High
Frequency of Use:	Often
Business Rules:	None
Special Requirements:	1. The user shall be able to return to the home page at any time.
Assumptions:	The uploaded files are in an understandable format, such as XML, JSON, CSV, etc.
Notes and Issues:	None

3.2 Use Case 2: Search For Data Sets

Use Case ID:	2
Use Case Name:	Search For Data Sets
Created By:	Griffin Asweagn
Last Updated By:	Griffin Aswegan
Date Created:	October 9, 2018
Date Last Updated:	October 9, 2018
Actors:	Users
Description:	A User uses the search bar at the top to highlight certain data sets that contain key words in their title, classifications, or column names.
Preconditions:	<ol style="list-style-type: none"> 1. User is logged into the system. 2. User is authorized to see the data sets they are searching for.
Postconditions:	None
Normal Flow:	1.0 Searching for Data Sets

	<ol style="list-style-type: none"> 1. A User opens the home page of the web portal. 2. The system displays the home page. 3. A User types key words into the search bar at the top of the screen and either hits "Enter" or clicks the Search icon to the right of the search bar. 4. The system will scour through all of its available data sets and filter out data sets that do not contain the keywords in their title, classifications, or column names. 5. The system will display the results of the search, ordered by data set name alphabetically.
Alternative Flows:	<p>1.1 Viewing Data Set Details (after step 4)</p> <ol style="list-style-type: none"> 1. User clicks on a data set. 2. The system will display details about the data set as well as provide the option to edit or delete the data set. <ol style="list-style-type: none"> (a) If the user chooses Edit, the system will begin Use Case 4. (b) If the user chooses Delete, the system will begin Use Case 4 (c) If the user chooses View, the system will display more detailed information about the selected data set, such as classifications, column names, import date, and type of data set. <p>1.2 Viewing Multiple Data Set Details (after step 4)</p> <ol style="list-style-type: none"> 1. User highlights multiple data sets. 2. The system will display common details between the data sets, as well as edit only common details about that data set. 3. The system will also display a "Delete" option that will allow users to delete multiple data sets at once. <p>1.3 No Results Found (after step 3)</p> <ol style="list-style-type: none"> 1. The system does not find any items that match the specified keywords and displays, "No results found." 2. The system returns to step 2.
Exceptions:	None

Includes:	FR-3, FR-2a, FR-2b, FR-2c, NFR-F
Priority:	High
Frequency of Use:	Medium to often, depending on the user
Business Rules:	None
Special Requirements:	<ol style="list-style-type: none"> 1. Users shall be able to return to the home page at any time. 2. Users shall see their current search keywords at any time.
Assumptions:	None
Notes and Issues:	None

3.3 Use Case 3: Classify Data Sets

Use Case ID:	3
Use Case Name:	Classify Data Sets
Created By:	Steven Bradley
Last Updated By:	Steven Bradley
Date Created:	October 9, 2018
Date Last Updated:	October 9, 2018
Actors:	Users
Description:	A user uses the classification feature to classify the data sets within their project.
Preconditions:	<ol style="list-style-type: none"> 1. User is logged into the system.
Postconditions:	None
Normal Flow:	<p>1.0 Find New Relationships Between Data Sets</p> <ol style="list-style-type: none"> 1. The user opens the home page of the web portal. 2. The system displays the user's projects. 3. The user selects a project. 4. The system displays information about the project and a classify button. 5. The user clicks on the classify button. 6. The system attempts to classify the data sets in the project. 7. Once classification is complete, the system notifies the user that it finished classification.

Alternative Flows:	1.1 Viewing Data Set Details (after step 3) <ol style="list-style-type: none"> 1. User clicks on a data set within the project. 2. The system will display details about the data set as well as provide the option to edit or delete the data set. <ol style="list-style-type: none"> (a) If the user chooses Edit, the system will begin Use Case X <<use case to be added later>> (b) If the user chooses Delete, the system will begin Use Case Y <<use case to be added later>>. (c) If the user chooses View, the system will display more detailed information about the selected data set, such as classifications, column names, import date, and type of data set.
Exceptions:	1.2 Selected project has no data sets (after step 3) <ol style="list-style-type: none"> 1. The system displays "No data sets found". 2. The system displays an 'add data set' button. 3. If button is clicked, then the system proceeds to Use Case 1.
Includes:	FR-4, FR-3a, FR-3b, FR-3c, NFR-F
Priority:	High
Frequency of Use:	Often
Business Rules:	None
Special Requirements:	Users shall be able to return to the home page at any time.
Assumptions:	None
Notes and Issues:	None

3.4 Use Case 4: Add Classifications to Data Sets

Use Case ID:	4
Use Case Name:	Add Classifications to Datasets
Created By:	Dustyn Zierman-Felix
Last Updated By:	Dustyn Zierman-Felix
Date Created:	October 9, 2018
Date Last Updated:	October 30, 2018
Description:	A user wants to modify the current classifications of a specific data set.

Preconditions:	<ol style="list-style-type: none"> 1. The user is logged into the system. 2. The user has data sets that have already been classified.
Postconditions:	None
Normal Flow:	<p>1.0 Add Classifications to Data Sets</p> <ol style="list-style-type: none"> 1. The user has the dataset displayed and is on the home page. 2. The user clicks on the "Edit Dataset" button. 3. The system displays a page that allows the user add, edit, or remove classifications. 4. The system allows the user to adjust what classifications are associated with which data types.
Alternative Flow:	<p>1.1 Add Classification</p> <ol style="list-style-type: none"> 1. The user has the dataset displayed and is on the home page. 2. The user clicks on "Add Classification" 3. The system will display a prompt showing the data set's current data values and allow the user to select which data will be associated with the classification. 4. The user, once finished, clicks "OK" and the classification is added to the data set. <p>1.2 Editing Classifications</p> <ol style="list-style-type: none"> 1. The user has the dataset displayed and is on the home page. 2. The user clicks on "Edit Classification" 3. The system will open a prompt with information about the current data set. The system will allow the user to edit data within that classification. 4. The user, once finished, clicks "OK" and the classification's changes are recorded. <p>1.3 Removing Classifications</p>

	<ol style="list-style-type: none"> 1. The user has the dataset displayed and is on the home page. 2. The user clicks on "Remove Classification". 3. The system will warn the user, and confirm the removal. 4. The user clicks "OK". 5. The system removes the classification.
Exceptions:	None
Includes:	FR-1a, FR-2a, FR-2b, FR-2c
Priority:	Medium to High
Frequency of Use:	Occasional to often, depending on the user.
Business Rules:	None
Special Requirements:	<ol style="list-style-type: none"> 1. The user shall be able to return to the home page at any time.
Assumptions:	The user already has classified data sets in the system.
Notes and Issues:	None

3.5 Use Case 5: Display Graph of Data Sets

Use Case ID:	5
Use Case Name:	Display Graph of Data Sets
Created By:	Shane Villalpando
Last Updated By:	Shane Villalpando
Date Created:	October 10, 2018
Date Last Updated:	October 22, 2018
Description:	The user wants to see in graph display the relationship between selected data sets in a catalog.
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged into the system. 2. The user has authorization to the selected data sets.
Postconditions:	None
Normal Flow:	1.0 Display Graph of Data Sets

	<ol style="list-style-type: none"> 1. The user opens the home page of the web portal. 2. The user clicks the "Catalog" button to open one of their projects. 3. The system displays the list of data from the catalog of the project 4. The user specifies which data sets they want to see displayed in the graph in a list. 5. The User clicks the show visual button 6. The system organizes the data and builds a graph of all connections within the classified data sets. 7. The system displays the results to the user.
Alternative Flow:	Display Graph of a Single Data Set <ol style="list-style-type: none"> 1. After Use Case 4: User specifies one data set they want to see displayed
Exceptions:	Data set/Data sets are empty
Includes:	FR-4, FR-6
Priority:	Medium
Frequency of Use:	Low to medium, depending on the user.
Business Rules:	None
Special Requirements:	<ol style="list-style-type: none"> 1. The user shall be able to return to the home page at any time.
Assumptions:	None
Notes and Issues:	None

3.6 Use Case 6: Access and Display Data

Use Case ID:	6
Use Case Name:	Click to Access and Display Data
Created By:	Larry Hu
Last Updated By:	Larry Hu
Date Created:	October 9, 2018
Date Last Updated:	October 22, 2018
Actors:	Users
Description:	User wants to see the contents of the data he is currently accessing.
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged into the system. 2. The user is authorized to see the data within data sets.

Postconditions:	None
Normal Flow:	<p>1.0 Click to Access and Display Data</p> <ol style="list-style-type: none"> 1. The user opens the home page of the web portal. 2. The system displays the list of datasets available. 3. The user clicks on a data set. 4. The system displays a description of the data set, as well as a small sampling of items from that data set. The system also displays a download button that allows the user to download the data sets.
1.0 Alternative Flow:	<p>Cancelling Display of Data</p> <ol style="list-style-type: none"> 1. At any point after Step 3 of Normal Flow, User clicks away from window to hide data set.
Exceptions:	None
Includes:	FR-3, FR-6, FR-7, FR-8
Priority:	High
Frequency of Use:	Medium to often, depending on the user
Business Rules:	None
Special Requirements:	<ol style="list-style-type: none"> 1. The user shall be able to return to the home page at any time. 2. The system shall update the data set details if the user clicks on another data set.
Assumptions:	None
Notes and Issues:	None

4 System Features

4.1 System Feature 1: Classifying Data

4.1.1 Description

The system will allow users to classify data sets based on the data within that data set.

4.1.2 Stimulus/Response Sequences

Stimulus	Response
User clicks on the "Add Dataset" button	The system opens up a prompt that allows a user to drag and drop files
User drags a file into the open space	The system will add it to the list of files to classify
User clicks "Classify and Add to Data Set"	The system will classify the data set
User clicks on an unknown data set	The system will prompt the user to add information about the data type

4.2 System Feature 2: Searching For Data Sets

4.2.1 Description

The system will allow users to filter out unwanted data sets by providing a list of keywords to search for in a search bar.

4.2.2 Stimulus/Response Sequences

Stimulus	Response
User presses enter while focused on the search bar	The system displays all data sets
User enters keywords into the search bar and presses enter	The system displays all data sets with that keyword contained in the title, classifications, or column names
User clicks on a found data set	The system displays options and information for the data set

4.3 System Feature 3: Finding Relationships in Data Sets

4.3.1 Description and Priority

The system will allow users to select multiple data sets and find relationships between them. This feature is extremely high priority.

4.3.2 Stimulus/Response Sequences

Stimulus	Response
User clicks on 'discovery' tab.	The system displays all data sets available to user.
User clicks on check-boxes for desired data sets	The system makes the 'discover' button clickable.
User clicks on the 'discover' button	The system runs the selected data sets through the data classifier and displays the results.

4.4 System Feature 4: Display Data

4.4.1 Description

The system will allow users to display a dataset's data when highlighted on that data.

4.4.2 Stimulus/Response Sequences

Stimulus	Response
User scrolls through the system and clicks on a dataset.	The system displays a table containing a summary of the information in the dataset.
User clicks away	The System hides away the display table
User clicks on a found data	The system displays options and information for the data set

5 External Interface Requirements

All of the items below are our preliminary choices for interface implementation, and are bound to change at any point, due to usability issues or potential interface implementation conflicts. Any changes made to interface requirements will be updated and listed below.

5.1 User Interfaces

Users will be able to interact with the software through any modern web browser, such as Google Chrome, Mozilla Firefox, Microsoft Edge/Internet Explorer, Apple Safari, and Opera.

5.2 Hardware Interfaces

- We need to come up with a database software we will be using
- We need to outline some sort of server that hosts the system

5.3 Software Interfaces

The system will use NodeJS on the server mentioned previously to host the webpage users will interact with.

The system will use Javascript and React.js for our front-end.

The system will use D3.js for visualization and organization of graphical data.

The system will use Python as the primary "back-end" for the classifier.

The system will use SciKit Learn for the Machine Learning aspect of the classifier.

The system will use Pandas for data wrangling.

5.4 Communications Interfaces

The system will use standard webpage communication through TCP/IP using standard TLS/SSL encryption for security.

6 Other Nonfunctional Requirements

6.1 Performance Requirements

NFR-A	The system shall respond to user interaction in under 5 seconds.
NFR-B	The system shall find search results in less than 5 seconds.

NFR-C	The system shall navigate through edit features with less than 5 clicks.
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6.2 Safety Requirements

NFR-D	The system shall not allow third parties to see a users private information.
NFR-E	The system shall be able to process up to 100 data sets at a time.

6.3 Security Requirements

None, so far.

6.4 Software Quality Attributes

NFR-F	The system shall use common design conventions for the User Interface.
NFR-G	The system shall adhere to a similar color convention that MarkLogic's systems use.

7 Other Requirements

None, so far.

A Documents

Vision and Scope:

<https://bit.ly/2IQRI9X>

UI Mockup

<https://bit.ly/2Jc6DeT>

Class Diagram

<https://bit.ly/2D4wtB4>

Deployment Diagram

<https://bit.ly/2JjyiL2>

B Glossary

Data Set: A File, or a group of Files, that form a single collection of related data.

Classification: A label applied to a data set that identifies types of datum in said data set.

C Issues List

None, so far.