This document will outline my requirements for the Madden Updater, both user and technical. The high-level user workflow will be documented, with each action the user takes – from opening the application to closing it – listed explicitly, and the underlying actions that the program will take also explained in fairly high-level detail.

1. Start-Up
   1. User workflow: The user clicks on the application's icon.
   2. Technical workflow: The application generates a form entitled "Update Madden Roster for [Year]."
      1. The [Year] field will be a text entry box whose contents will be used when generating the name of the output roster file, in the format "Initial\_[Year].ros".
      2. The form will also contain the following fields:
         1. **Previous Year's Finalized Roster**
            1. This will be the heading on an outlined area of the form, with two rows of contents.
            2. **.ros File**

This input will consist of the above label and, underneath, a text entry field and a "Browse…" button on the right. The value input should be the path + filename of the roster file which contains the finalized version of the previous year's updated roster.

* + - 1. **Current NFL Rosters**
         1. This will be the heading on an outlined area of the form, with multiple rows of contents.
         2. **NFL Team Roster Pages URL Template**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the URL of the team roster pages at the NFL.com website, using placeholders as necessary (e.g. " http://www.nfl.com/teams/[FULL\_LOCATION][NICKNAME]/roster?team=[SHORT\_LOCATION]" ). The default value in the field will be the latest provided value.

Placeholders in the URL should be of the following formats:

[FULL\_LOCATION] for the full team location (city, state, or area)

[SHORT\_LOCATION] for the short, 3-letter abbreviation of the area

[NICKNAME] for the full team nickname

* + - * 1. **Team Roster to Player Profile Pages Anchor Tag HREF RegExp**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the regexp which matches the data within the HREF attributes of anchor tags found in the team roster pages which link out to the individual player profile pages at NFL.com, using placeholders as necessary (e.g. '^/player/.+/profile$'). The default value in the field will be the latest provided value.

* + - 1. **Current Madden Player Ratings**
         1. This will be the heading on an outlined area of the form, with two rows of contents.
         2. **Excel File**

This input will consist of the above label and, underneath, a text entry field, and a "Browse…" button on the right. Its input value should be the path + filename of the Excel file which contains the list of current Madden player ratings.

This file must use the following format: One worksheet per team, with Column A having the player's first name, Column B having his last name, Column C his position, Column E his overall rating, and the remaining columns (F through AV) having the individual attribute ratings, ranging from 1 to 99.

* + - 1. **Current FBG Player Ratings**
         1. This will be the heading on an outlined area of the form, with multiple rows of contents.
         2. **FBG Team Roster Pages URL Template**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the URL of the team roster pages at the FBGRatings.com website, using placeholders as necessary (e.g. "http://www.fbgratings.com/members/viewbyrate.php?team=[NICKNAME]" ). The default value in the field will be the latest provided value.

* + - * 1. **Team Roster to Player Profile Pages Anchor Tag Data Template**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the exact contents of the data within the anchor tags found in the team roster pages which link out to the individual player profile pages at FBGRatings.com, using placeholders as necessary (e.g. '[LAST\_NAME], [FIRST\_NAME]'). The default value in the field will be the latest provided value.

* + - * 1. **Attribute Name Table Data Tag Template**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the exact contents of the data within the table data (<td>) tags found in the player profile pages which immediately precede the table data tags holding the attribute values, using placeholders as necessary (e.g. '<strong>[ATTRIBUTE\_NAME]:</strong>'). The default value in the field will be the latest provided value.

* + - * 1. **Attribute Value Table Data Tag Template**

This input will consist of the above label and, underneath, a text entry field. Its input value should be the exact contents of the data within the table data (<td>) tags found in the player profile pages which hold the attribute values, using placeholders as necessary (e.g. '&nbsp;&nbsp;[ATTRIBUTE\_VALUE]'). The default value in the field will be the latest provided value.

* + - * 1. **Draft Pick Text Templates**

These inputs will consist of the above label and, underneath, two labels and text entry fields as shown below.

**Drafted:** This input value should be the exact contents of the text found within the player profile pages which hold the information on the round and pick number used to select the player (e.g. '[NUMBER] - Round [NUMBER], pick [NUMBER]'). The default value in the field will be the latest provided value.

**Undrafted:** This input value should be the exact contents of the text found within the player profile pages which holds the information on undrafted players (e.g. 'Undrafted, [NUMBER] - Round , pick'). The default value in the field will be the latest provided value.