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## Project 3: Test plan

**Unit Testing:** Rspec was used for testing the core functionality in output.rb. Module Searching and function output\_html, get\_org\_list.rb, get\_org\_data.rb, gui.rb were unit tested using systematic test plans provided in the spec folder.

**Integration testing:** Since the display functionalities are necessary to view the results of the integration tests, and the sections without the basic can just be tested under systems testing, systems testing has been done directly.

### Systems testing:

#### I) Alpha

Things that we can vary:

1. Basic & Advanced search
  - a. Campus
  - b. Directory
  - c. Search
  - d. Categories
  - e. Text type
  - f. Reg win
  - g. Show inactive orgs
2. Different number of attributes
3. Output to different file formats
4. Gui functionality input

Test #	Testing conditions	Results
1	Run main, Wooster, All directory, 3 attributes (Status, Facebook Group Page, Constitution), output to html	<b>Doesn't get the correct url, Outputs properly, 0 Recommendations created.</b>
2	Run main, Mansfield, 0-9, 1 category (Special Interest), reg_win in spring, show_inactive_orgs, 2 attributes (Secondary types, Membership type), output to json	<b>Passed.</b>
3	Run main, All, W, search 'k3[g3', 1 attribute (Charge dues), output to html	<b>OK.</b>
4	Run main, Columbus, X, 2 categories (Undergraduate, Religious/Spiritual), text type 'purpose', all attributes, output to console	<b>OK</b>

5	Run gui, Columbus, search 'finance', Find orgs, Save to JSON	<b>14 results found and saved, OK</b>
6	Run gui, Marion, search 'finance', Save to JSON only	<b>0 result found and saved, OK</b>
7	Run gui, All, search 'finance', Find orgs only	<b>15 results found, OK</b>
8	Run gui, All, search 'finance', Save to JSON only	<b>15 results found and saved, OK</b>
9	Run gui, All, search 'Animal Welfare Club', Find orgs, Save to JSON	<b>4 results found and saved, OK</b>
10	Run gui, Columbus, search 'Animal Welfare Club', Find orgs, Save to JSON	<b>3 results found and saved, OK</b>
11	Run gui, Lima, search 'Animal Welfare Club', Find orgs, Save to JSON	<b>1 result found and saved, OK</b>
12	Run gui, All, search 'Animal Welfare Club', Find orgs, Save to JSON	<b>4 results found and saved, OK</b>
13	Run gui, Newark, search 'Animal Welfare Club', Find orgs, Save to JSON	<b>0 result found and saved, OK</b>

**Limitation:**