In addition to the requirements, the SRS will contain supporting information such as the purpose and drivers behind the solution.

Requirements are like goals in that they should be SMART: Specific Measurable Achievable Relevant and Timely. Specific in that they are not vague, and they represent an important aspect of the solution. Measurable indicates that it can be tested or verified. That is to say, there is a way to prove the solution includes or meets this requirement. Relevant means that it has some value (either business value or value to the end user). Timely means that it can be done in a reasonable or realistic amount of time (e.g., requiring energy companies to have cold fusion in place by 2030 is not timely). SMART – Specific, Measurable, Achievable, Relevant, Time-Bound

Mandatory (Must/Shall):

1. The system shall display appropriate information for therapists.
   1. The system shall require the below listed information about therapists:
      1. First Name
      2. Last Name
      3. Associated Practice Name
      4. Associated Practice Address
      5. Phone Number
      6. Whether or not the therapist accepts insurance
      7. A list of insurances accepted, if any
2. The system shall display appropriate information for facilities.
   1. The system shall require the below listed information about facilities:
      1. Facility Name
      2. Facility Address
      3. Facility Phone
      4. Facility Hours
      5. Whether or not you can do a walk in to be admitted
3. The system shall display appropriate information for medication management resources.
   1. The system shall require the below listed information about medication management resources:
      1. First Name
      2. Last Name
      3. Associated Practice
      4. Associated Practice Address
      5. Phone Number
      6. Whether or not accepts insurance
4. Users shall be able to search for specific types of resources based on at least one criteria.
5. Users shall be able to submit a request for a new mental health resource to be added to the database through a form on the website.
6. The system shall have a security feature for new resource submissions.
7. The system shall not allow unauthorized users to directly add new resources to the database.
8. The system shall display an example list of 12 resources.
9. The system shall separate this homepage list into genres on the home page.
10. The system shall display 4 of each type of resource in the example list on the homepage.
11. The system shall confirm submission of new resources.

Optional:

1. The system may have advanced search based on multiple criteria.
2. The system may have a search option for a geographical area.

Functional – what the solution MUST do:

Non-functional – describes what constraints exist on the solution:

* Constraints can be performance related or address the “ilities”
  + Portability, Security, Maintainability, Reliability, Scalability, Reusability, Flexibility

1. The solution shall load resources in <= 1 second from the point the URL is entered in a browser.
2. Search results shall be displayed <= 1second after the search button is selected.
3. The system shall have security measures for submissions.
4. The site shall be ADA compliant.
5. The system shall handle 500 concurrent users at a time without performance degradation.
6. The system shall load up to 12 resources on a page at a time without performance degradation.
7. The system interface shall be intuitive.
8. The system shall allow for new pages to be created if so needed at a later time.
9. The system shall allow for expansion to cater to more user groups if so needed at a later time.

For each requirement, define test cases that can be used to demonstrate the solution fulfills that requirement. For test cases, I recommend using the <Precondition> <Action> <Postcondition> style (described on slide 10 of the Testing slide deck).

Test Cases:

A) Precondition: The user is not currently at the EAST TN Mental Health Resources Website.

Action: Navigate to the correct URL/Homepage and scroll down to view full example list.

Postcondition: A list of mental health resources is displayed in under a second on the front page with required information displayed for each resources type – 12 resources total and separated by genre.

B) Precondition: The user is not currently in a selected individual therapist resource information page.

Action: Click a therapist resource to display all information.

Postcondition: All information including first name, last name, associated practice name, associated practice address, phone number, whether insurance is accepted, insurances accepted is displayed.

C) Precondition: The user is not currently on a selected individual facility resource information page.

Action: Click a facility resource to display all information.

Postcondition: All information including facility name, facility address, facility phone, facility hours is displayed.

D) Precondition: The user is not currently on a selected individual medication management resource information page.

Action: Click a med mgmt resource to display all information.

Postcondition: All information including first name, last name, associated practice name, associated practice address, phone number, whether or not insurance is accepted, insurances accepted is displayed.

E) Precondition: The user is currently on an East TN MHR page with a search bar.

Action: The user navigates to the left side search pane and selects at least one criteria that is not geographical.

Postcondition: A list of mental health resources is displayed in under a second on the front page with required information displayed for each resources type – 12 resources total and separated by genre.

F) Precondition: The user is currently on an East TN MHR page with a search bar.

Action: The user navigates to the left side search pane and selects at least 2 criteria that are not geographical.

Postcondition: A list of mental health resources is displayed in under a second on the front page with required information displayed for each resources type – 12 resources total and separated by genre.

G) Precondition: The user is currently on an East TN MHR page with a search bar.

Action: The user navigates to the left side search pane and selects the geographical search criteria.

Postcondition: A list of mental health resources is displayed in under a second on the front page with required information displayed for each resources type – 12 resources total and separated by genre.

* Should have requirements for homepage/ interface requirements now, screenshots for homepage.\ display
* Leave extra stuff in
* Create a 5th iteration for extra stuff
* Only put down requirements for iteration 1 in traceability matrix
* He said he doesn’t care if the test cases are actually good and testing