Week 1

1. SRS
   1. Formal Requirements
      1. format the requirements in a formal style (The system SHALL provide a list of agencies that support mental health programs for college students) or with user stories (As a university mental health expert, I want to be able to add content to the site so that it better serves college students).
      2. How ever you decide to format the requirements try to make them SMART.
   2. Test Cases
      1. 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).
   3. Traceability Matrix
      1. If you number your requirements (e.g. 1.2.a) and your test cases (e.g. T.1.b.i), you can create a traceability matrix to ensure you have all your requirements covered. Remember it may be possible to have one test case that validates multiple requirements or multiple test cases that are needed to validate a single requirement or other combinations (that is to say, they are often not a 1-1 match).
   4. The requirements and test cases and matrix go in your SRS. The testing I'm most interested in is Validation testing which is the test that proves the requirements have been met.
2. SDD
   1. Story Board with screen mock ups
      1. <https://ryanstutorials.net/software-design-and-development/storyboards.php#:~:text=What%20does%20a%20storyboard%20look,how%20you%20navigate%20between%20them>. Shows story board for website.
      2. A diagram of a search engine

         Description automatically generated
   2. UML or testing scenarios like in story board link
   3. User Personas?
3. Implementation
   1. If you do a really thorough job on requirements, test cases, and design, I'm not sure how much time you will have to write an implementation in pseudo code or actual code. This is not a coding class, so I am not concerned about the specific implementation details. Review the implementation slide deck and identify any other artifacts that you can generate in the time provided.