Name: _____

Practice Quiz 2

1. Define each of the following terms: (*Practice Note: I will select at most three of the words listed below.*)

   - Software requirement
   - Functional requirement
   - Nonfunctional requirement
   - Epic (from agile development)
   - User story
   - Storyboard
   - Sprint backlog
   - Software requirement specification
   - Requirements elicitation
   - Ethnography (for requirements elicitation)
   - Requirements validation
   - Wireframe
   - Derived requirement

2. Give the typical "life cycle" for a user story in a Scrum environment. (*Practice Note: here I'm looking for a short description of how user stories are created and "updated", as well as who performs each activity. For instance, the product owner creates the user story and places it in the product backlog, the user story is moved to the sprint backlog by the product owner and development team during a sprint planning event, the story is completed during the sprint by a developer, and so on.*)

3. The user stories below fail to meet at least one of the INVEST criteria. Identify one criteria each story does not meet and explain *why* it does not meet it. *Note: I have left off the acceptance criteria for brevity. Do not consider this a violation.*

4. Each of the requirements below fail to meet at least one of the IEEE's criteria for a good single software requirement. Identify one criteria each requirement does not meet and explain *why* it does not meet it.

5. Consider the traceability matrix given below which maps system requirements to software requirements. Identify two errors or "smells" indicated by the matrix.

6. Write a user story (including acceptance criteria) that might have been created during the development of Google Drive. Size your story so a single developer could implement it in a week (40 hours). Your user story should satisfy the INVEST criteria.

7. Write a set of requirements for the simple method given below. Your requirements should satisfy the criteria specified by the IEEE for "good" requirements.

8. Enter a sequence of Git commands which would create the commit structure shown below. You may assume you are in the correct directory, and may simply leave comments where file creation and modification would take place.

9. Give one advantage and one disadvantage of using (interviews, ethnographies, stories and scenarios) for requirements elicitation.

10. Consider the sample project described below. How would you perform requirements elicitation? *Justify your answer.*