Knowledge Test K6

COMP 4081 • Software Engineering • Fall 2019

Solutions

Name:		,	,		
	Last name	Fir	rst name		

Rules:

- No potty breaks.
- Turn off cell phones/devices.
- Closed book, closed note, closed neighbor.
- <u>WEIRD!</u> Do not write on the backs of pages. If you need more pages, ask me for some.

Reminders:

- Verify that you have all pages.
- Don't forget to write your name.
- Read each question <u>carefully</u>.
- Don't forget to answer every question.

1.	[1]	What is a <i>user story</i> ?				
	a)	A user testimonial about how a piece of software helped them on a task				
	b)	An instructional story for training users on a piece of software				
	0	A chunk of functionality (some people use the word feature) that is of value to the customer				
2.	[1]	Which of the following is <u>not</u> one of the main parts of a user story?				
	a)	description				
	b	references				
	c)	title				
3.	[2]	[2] Complete this familiar template.				
A	s a	who , I want what , so that why				
4.	[2]	Based on the quality criteria for user stories discussed in class, what is wrong with the following?				
	As a	a user, I want a help button, so that I can get immediate help from customer support.				
	a)	Too short, not detailed enough				
	b)	Uses technical jargon that a customer might not understand				
	c)	Mentions specific implementation technologies or user-interface elements				
5.		\times 1] Label each of the following with a F if it is a functional requirement and an NF if it is a non-actional requirement.				
	a)	NF The system must process requests in 1 second or less.				
	b)	As a teacher, I want to create a quiz, so that students can practice the material.				
	c)	NF All code written to implement the system must adhere to the project's style guide.				
	d)	NF Users must be able to perform common tasks with two or fewer clicks.				
	e)	The system must enable managers to search for employee information by last name.				

6. [9] Write a user story for the following familiar Facebook feature. Include the two main parts of a US and follow all templates discussed in class.

Create Post What's on your mind, Scott? Title: Create Post Description: As a user, I want to create a post, so that my followers will know what I'm thinking.

Consider this Git log graph in answering the following questions.

7. [1] Which branch was the user on when they made commit 2elec?

master

8. [1] Which branch was the user on when they made commit 98d8b?

iss1

9. [1] Which branch was the user on when they made commit 5ab3b?

master

10. [2] At the point labeled A, what happened? (Fill in the blanks to answer.)

11. [5] List all the commits that are in <u>both</u> the master branch's version history and the iss1 branch's version history.

cb157, 98d8b, 26c94

Bonus Problems

Each of the following problems presents a Git log graph (log messages omitted) of a local repo and a scenario. Give the updated graph that would result from each scenario.

- If you need to add a commit, use the hash clclc.
- If a command would be rejected by GitHub (e.g., because the remote contains work that you do not have locally), write "REJECTED" on the top line.
- Assume that all remote bookmarks depicted are up to date.
- 1. [5] Scenario: Developer makes changes to the code, stages the changes, and commits.

```
* 37da5 (master)
| * a9e9c (HEAD -> iss1)
| * 3f2fd
|/
* dc268
```

* c1c1c (HEAD -> iss1)

* | 37da5 (master)

| * a9e9c

| * 3f2fd

|/

* dc268

2. [5] Scenario: Developer runs git merge master. Assume that auto-merge, if used, would complete successfully with no merge conflicts.

```
* 37da5 (master)
| * a9e9c (HEAD -> iss1)
| * 3f2fd
|/
| * dc268
```

```
* c1c1c (HEAD -> iss1)

/ |

* | 37da5 (master)

| * a9e9c

| * 3f2fd

|/

* dc268
```

3. [5] Scenario: Developer runs git merge iss1. Assume that auto-merge, if used, would complete successfully with no merge conflicts.

```
* 37da5 (iss2)
| * a9e9c (iss1)
| * 3f2fd
|/
| * dc268 (HEAD -> master)
```

```
* 37da5 (iss2)
| * a9e9c (iss1, HEAD -> master)
| * 3f2fd
|/
* dc268
```