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CS 362: Software Engineering II
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Homework 7 Question 3

How would you apply test-driven development within your social media system from in-class activity 1? Explain with a scenario.

My in-class activity social media system was Snapchat. I would use the TDD approach specifically for Snapchat's naming capabilities for friends. In addition to a user's username, the user has a name that identifies them in Quick add, friends lists, stories, etc. This display name can be customized by the user, which changes the display name that is shown for all of their friends and strangers who add them. However, friends are also able to change this display name for their own personal Snapchat. For example, if I set my own display name to be "Grace Todd", that is the name that would show up in Quick add, for my friends, and when people would view my story. However, if my friend wanted to change my display name to something more personal, like "grace", then they would be able to change my name in their Snapchat profile to "grace" without altering my display name for anyone else.

For this functionality, I would use the TDD approach to do the following:

- Create a test that verifies the display name
- Create code to check the display name of a user, and authenticate that the name is what is displayed on the user's own profile.
- Create a test to verify that customized display names and public display names are different, but still link to the same user profile.
- Create code to separate customized display names from public display names.