

Juhwan Lee  
CS300: Elements of Software Engineering  
Professor Fei Xie

Exercise 3.1 (Textbook Pg. 80; Lecture note Pg. 6):

Using the input/action/output template that I introduced at the beginning of this chapter, describe two features of software that you commonly use, such as an editor or a presentation system.

Software that I commonly use: Instagram

Feature 1: Like

Input: Double tap on the post.

Action: The post will be added to the list of liked posts, and the user will be included in the list of people who liked the post. Like data will be used for future recommendation algorithms.

Output: A heart pop-up will appear indicating that a like has been clicked, and the user who posted the post receives a notification.

Feature 2: Post

Input: Post button on the top right corner

Action: Shows 4 options: post, story, reels, and live broadcast. Post and story leads to normal camera mode or album so the user can take a photo or video or choose photo or video from the album. Reels leads to reels camera mode or album so the user can start recording reels or choose video from the album. Live broadcast leads to live camera mode so the user can start live broadcasting.

Output: If the photo or video is processed, an empty box will appear so the user can start typing a caption. After the caption, the user can post the photo or video by clicking the post button on the top right corner. The photo or video will be added to the user's feed and will be shown on other user's instagram home.