How to Design a System Like YouTube?   
  
Here’s a 9-step process:   
  
1 - The user creates a video upload request and provides the video files along with the details about the video.   
  
2 - The raw video files are uploaded to an Object Storage (such as S3).   
  
3 - Also, the metadata is saved in a database as well as a cache for faster retrieval when needed.   
  
4 - The raw video files are sent for transcoding to a special transcoding server. Transcoding is the process of encoding the videos into compatible bitrates and formats for streaming.   
  
5 - The transcoded video is uploaded to another object storage.   
  
6 - The notification for transcoding completion is sent to a special service via a message queue.   
  
7 - The Transcoding Status Handler updates the metadata DB and cache with the latest details of the video.   
  
8 - The user raises a video streaming request that goes to a Content Delivery Network (CDN).   
  
9 - The CDN fetches the video from the object storage for streaming. It also caches the video locally for subsequent streaming requests.   
  
Over to you: What else would you add to make the YouTube-like system?

