Ballerina Project Ideas

1. Update FB & Twitter with your GitHub commits. When you make a GitHub commit, tweet it and update your FB status.
2. Fine tune your FB timeline to show more posts from close friends or real friends. Close friends are people you have interacted with in the recent past (say within the last 6 months or so)
3. FB unfriend app. Find out who unfriended you on FB during the past week.
   a. Download friends into DB or S3
   b. Next run re-get and diff
4. Find the GitHub cards, which are not updated for more than a week and send a mail to the creator.
   - Get the projects of a repo
   - Get the cards in each column
   - Based on the Column prioritize the cards which need the focus
      - Ex: If a certain card is in a "need review" column for more than 2 days, send a email notification
5. Contacts cleaner
   a. Load Google contacts into a spreadsheet
   b. Edit manually
   c. Push back in to contacts
6. Notification sender app using Google Tasks and Twilio
   a. Fetch Google Tasks related to a specific tasklist
   b. Schedule SMS notification messages based on the task
   c. Send SMS message on scheduled time
7. Twitter/Facebook and Google Calendar based event finder/ notifier
   a. Find the interesting events nearby from twitter
   b. Add those to Google Calendar to notify later
8. EC2 balx deployer
   a. Create EC2 instance, scp balx to instance, run and shutdown
9. EC2 instance scanner
   a. Periodically run and produce report of all running instances
10. Docker on my machine
    a. Convert any service to Docker
    b. Service to scan downloads directory, identify 10 largest files that have not been touched in the last month and send email to yourself with that list

11. Libraries
    a. Sorting library: concurrent merge sort
    b. Data types like stack, queue
    c. Machine learning library
    d. Terminal graphics
    e. Distributed cache
    f. Similar thing to Lodash NPM package
    g. JSON RPC library
    h. JSON schema parser +:
        i. Filter to validate an incoming JSON message against schema
        ii. Code generator to generate Ballerina records for a JSON type
    i. XML schema library
12. Unconference voting app with Websocket
    a. The users connect to server via http
    b. Server updates dashboard via WebSocket
    c. Knowledge in HTML/Javascript is recommended
13. Twitter streaming client + stream processing
    Ex : If @ballerinalang is mention more than 5 times in a minute, call your phone
    or ring bell to make a nice
14. Write ngrok
15. Write http proxy which acts as httpmon
16. Read /proc/net/dev and alert when you have sent or received more than x MB/kB
17. Multiplayer ball moving game with websockets
    a. Javascript WebSocket clients and Ballerina WebSocket server
    b. Knowledge in HTML/Javascript is recommended
18. Use streaming to implement intelligent JSON schema validation that validates incoming messages
    a. The first time
    b. After k messages in a given time window
19. "Omi Game" using terminal and chalk library
    a. First, can try 3 bots and 1 player
    b. In Second Phase, Websockets can be used for the multiplayer
20. Write gRPC gateway - This project aims to provide HTTP+JSON interface to gRPC service.
    Reference : https://grpc-ecosystem.github.io/grpc-gateway/