

INDEX 12.5

- 1. GENERAL INSTRUCTIONS
- 2. ASSIGNMENT EXPECTATIONS
- 3. PROBLEM STATEMENT

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#### 1. GENERAL INSTRUCTIONS

- Please carefully read all the pages of the assignment.
- You can seek help from the Internet or anyone for learning and reference purpose.
- Do not copy the content as it is, use your genuineness and creativity.
- Any kind of plagiarism is highly prohibited.
- At any time if you need any clarifications, please do not he citate to contact (using same email you received this assignment).
- Completed assignment must be committed to GitHub report egular intervals to show the incremental working history.
- Above assignment repo URL must be shared with public access through the email in which you received this assignment.
- Daily work progress needs to be send everyday by email in which you received this assignment. THIS IS IMPORTANT
   It must follow the following format.

#### For example:

subject: [Assignment updat\_-day-1][YOUR\_NAME]

Hello Shan,

I have completed research on the following topics

Please note that Daily work progress report sending is more important than the actual work progress.
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# 2. ASSIGNMENT EXPECTATIONS

- Should solved all four requirements.
- Should able to show a demo of the working solution locally by sharing a screen (discussion will be scheduled after assignment submission).
- Should be able to articulate their code logic and design clearly.
- Should know every bit of their source code.
- Should be able to debug the code by keeping breakpoints.
- Should be able to demonstrate source code versioning history in Github.





# 3. PROBLEM STATEMENT

- Develop web based front-end for the following RED-GREEN memory game
  - Refer the requirements section as the game self explanatory.
- Technology preference
  - Use any one of the following technology
    - React.js + HTML + CSS
    - Plain Vanilla JS + HTML + CSS
    - Angular + HTML + CSS
    - Vue.js + HTML + CSS
- For API Mocking, JSON-server or any other harary of your choice.





# 3. PROBLEM STATEMENT - JSON format

```
1 · [
2 · {
     "type": "city",
4 "name": "chennai",
5 "id": "1"
6 },
7 - {
     "type": "country",
     "name": "Australia",
10 "id": "2"
11 },
12 - {
13 "type": "city",
14
     "name": "London",
15 "id": "3"
16 },
17 - {
     "type": "country",
     "name": "France",
20 "id": "4"
21 },
22 - {
     "type": "country",
     "name": "USA",
25 "id": "5"
26 },
27 - {
     "type": "city",
29 "name": "Melbourne",
30
     "id": "6"
31 },
32 ₹ {
     "type": "city",
34 "name": "Toronto",
35 "id": "7"
36 },
37 → {
38 "type": "country",
39 "name": "Sweden",
40 "id": "8"
41 },
```

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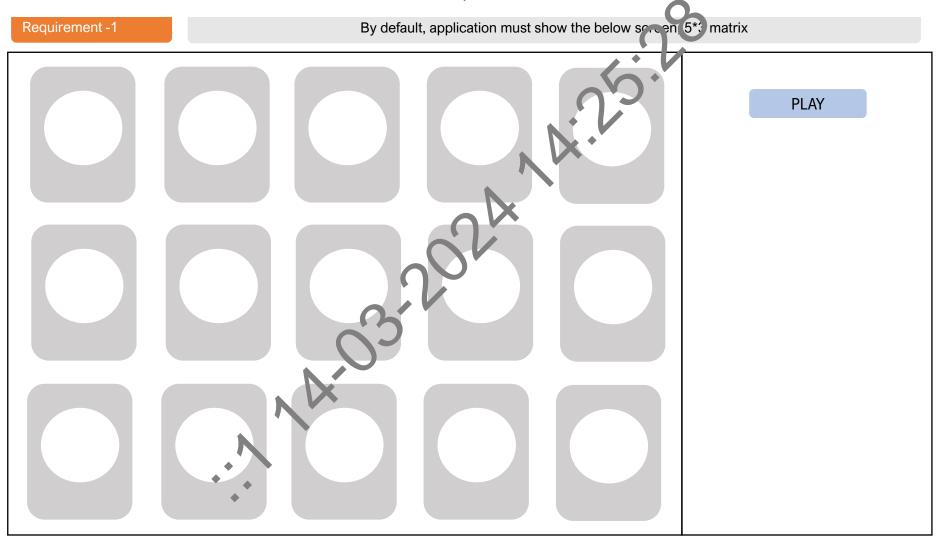
# 3. PROBLEM STATEMENT - Card Type with Icons

Card UX	Card Type name	Card Icon Name from MaterialUI.  Here given for the reference purpose only.  You are free to use any UI library for icons.  And also even Icons itself you are free to use anything but ensure icons are unique for each nodes.
<b>L</b>	City	Location City
<b>F</b>	Country	Flag

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ALLOH 10 OHOROG, DULLOH LOAL HIGGE CHAHACA LO O FO 8 4. Set the timer for 3 seconds with UI as sin will be ow country **STOP** USA **AUSTRALIA** FRANCE **CHENNAI** LONDON **BERLIN MELBOURNE TORONTO** UAE **£** ጨ UK \* **BENGALURU AMSTERDAM PARIS EGYPT** 

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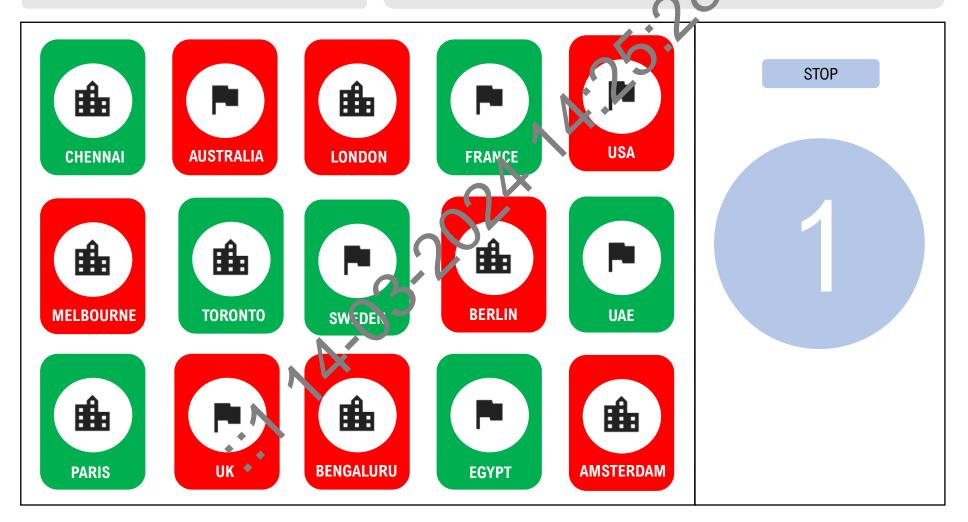
9 3. Set the timer for 3 seconds with UI as shown be ow country **STOP** USA FRANCE **AUSTRALIA CHENNAI** LONDON **BERLIN MELBOURNE TORONTO** UAE **£** ጨ UK \* **BENGALURU AMSTERDAM PARIS EGYPT** 

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User must see with 3 seconds and recollect later

3. Set the timer for 3 seconds with UI as shown be ow

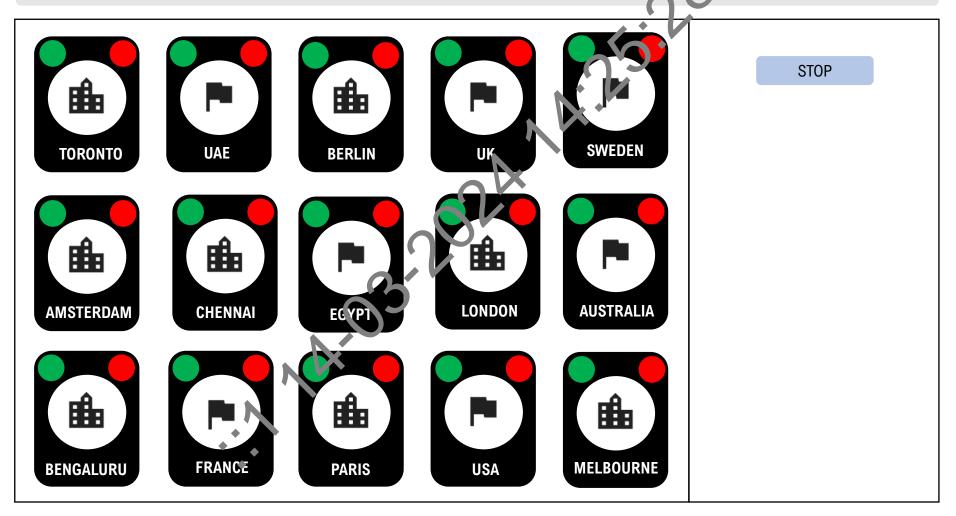


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11

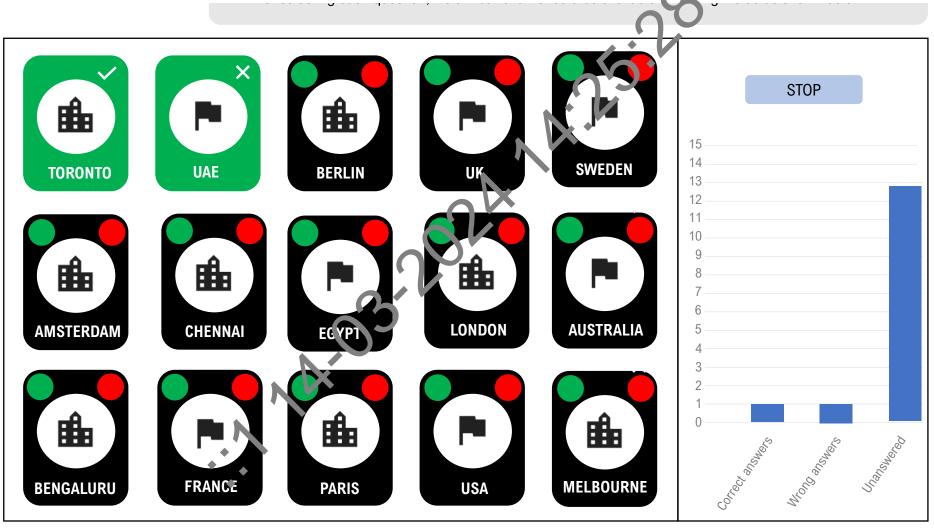
After 3 seconds, UI must be as shown below. All the text position must shuffled and the card colour must be changed to black.



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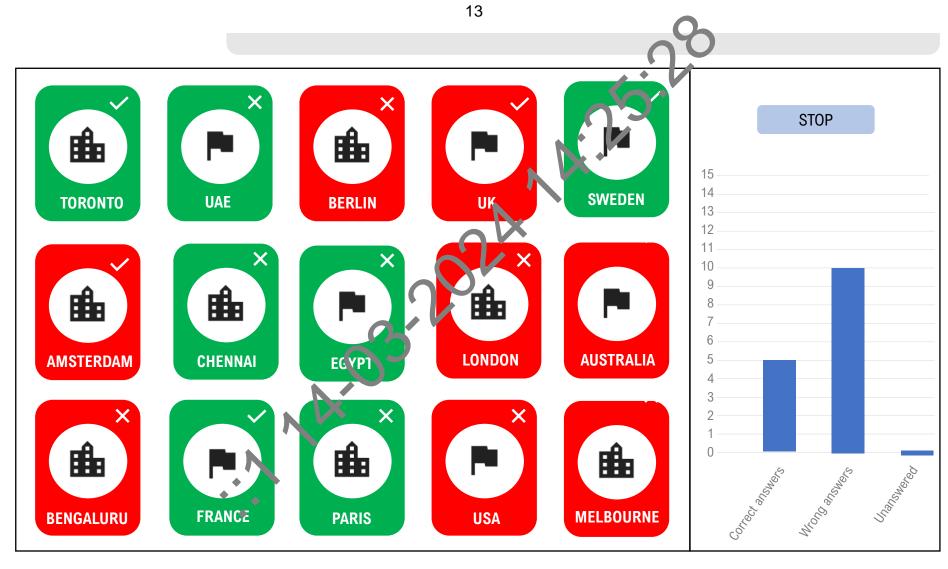


12



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Requirement -5

Create your own generic data and ensure all requirements are working

# This is optional requirement, work on this one only if you have successfully completed all the four requirements.



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16

# STAFF EXAM CONF : OCT 2023 AUTOMATION OF EXAM

Sponsored by Branch

XXX Centre & College

#### Background

- 1. Army Commanders' Conference (ACC) is an apex-level bianquai event which is an institutional platform for conceptual level deliberations, culminaling in making important policy decisions for the Indian Army. The first ACC for the year 2023 is scheduled from 17 to 21 April 2023. For the first time, the ACC is being conducted in Hybrid format exploiting available technology for secure communication, wherein Army Commanders and other senior functionaries will meet virtually on the first day and then travel to Delhi for balance physical meetings on matters which require detailed deliberations.
- 2. On the first-day of the conference, agenda points sponsored by various Command Headquarters will be discussed, folloted by an update from Commander-in-Chief Andaman and Nicobar Command and sessions by Principal Staff Officers of the Army Headquarters.

#### **Proposal**

3. Invalid Characters Arcepted: Set validation against a pre defines character. In its present state malicious inputs like spl character is being allowed for storage within the database. Thus it is recom that data input must be restd ro the char set of alphabets and numeric only.

#### Recommendat on

4. Army Commanders' Conference (ACC) is an apex-level biannual event which is an institutional platform for conceptual level deliberations, culminating in making important policy decisions for the Indian Army. The first ACC for the year 2023 is scheduled from 17 to 21 April 2023. For the first time, the ACC is being conducted in Hybrid format exploiting available technology for secure communication, wherein Army Commanders and other senior functionaries will meet virtually on the first day and then travel to Delhi for balance physical meetings on matters which require detailed deliberations.

#### Paste Ref/Status & Timeline (if applicable)

5. On the first-day of the conference, agenda points sponsored by various Command Headquarters will be discussed, followed by an update from Commander-in-Chief Andaman and Nicobar Command and sessions by Principal Staff Officers of the Army Headquarters. The forum will also review the progress on the activities charted out as part of 'Year of Transformation-2023' along with progress on Agnipath

- 6. The forum will also review the progress on the activities charted out as part of 'Year of Transformation-2023' along with progress on Agnipath Scheme, digitisation & automation initiatives, Combat Engineers tasks, work aspects and budget management.
- 7. The apex leadership will also brainstorm current / emerging security scenario and review operational preparedness of Indian Army. The Hon'ble RM is scheduled to address the conference on 19 April 2023, where he will also review an equipment display focusing on niche techcology, innovation, solutions for surveillance, Artificial Intelligence, Training, Robotics, Virtual Reality, Operational Logistics etc. The senior officers will also be addressed by the Chief of Defence Staff, Chief of he Naval Staff and the Chief of the Air Staff.
- 8. A talk on future contours of Indo China relations by Mr Vija Gokhale, former Ambassador to China is also planned during the conference Data Transmitted in Clear: lyt is obs that data is being transmitted in clear over a runencrypted Ch. The user data should always be trf via an encrypted ch (HTTPT) to avoid being intercepted during transmit. It is thus, recom that TLS based encryption be impl within the web server/application and all data tfr be encrypted.
- 9. Invalid Characters Accepted: Set yar dation against a pre defines character. In its present state malicious inputs like splich tracter is being allowed for storage within the database. Thus it is recom that data input must be restd to the char set of alphabets and numeric only.
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