RAJALAKSHMI ENGINEERING COLLEGE

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CS23A34 USER INTERFACE AND DESIGN LAB

Laboratory Observation NoteBook

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Evaluating the Effect of Chunking on User Memory in UI Design

Aim:

To examine how chunking (grouping visual elements such as icons or text) affects users' ability to recall information in a UI environment designed in Figma.

Procedure:

Step 1: Setting Up the UI in Figma

- 1. Create a Home Screen (Instruction Page)
 - o Open Figma and create a **new frame** (1024x768px for desktop view).
 - o Add a **heading**: "Memory Recall Task."
 - Provide instructions explaining that users will view grouped icons/text and recall them later.
 - Create a Start button using a rectangle and link it to the next screen using Figma's Prototype feature.

2. Chunking Phase (Display Chunked Items)

- o Create a **new frame** to show the items users will memorize.
- Design two versions:
 - Chunked Design: Group icons or text into 3-5 item clusters using boxes.
 - Unchunked Design: Display items randomly without clear separation.
- o Set up a **5-second delay** to automatically transition to the next screen.

3. Recall Phase (User Memory Test)

- Create a new frame for recall.
- Design two options for user input:
 - Multiple-choice selection: Users select from a set of options.

- **Text input fields:** Users type the items they remember.
- o Add a **Submit button** to move to the results screen.

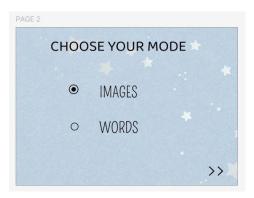
4. Result Screen (Feedback and Analysis)

- Show feedback like: "You recalled 4/5 items correctly!"
- o Record user performance based on the number of correct answers.
- Compare results for chunked vs. unchunked groups and icons vs. text-based chunks.

Output



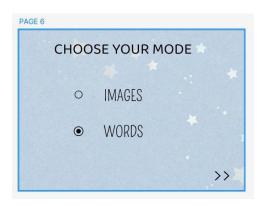






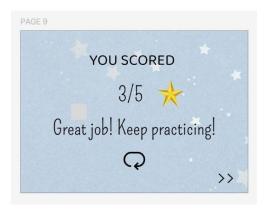


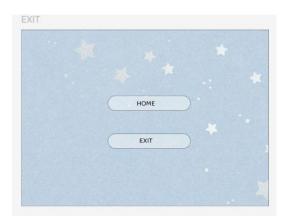












Results:

Users recalled chunked items better than unstructured ones, with icons being more memorable than text. The optimal chunk size was 3-5 items, as recall dropped beyond this. Multiple-choice input was easier, but text input led to better memory retention.

Link:

 $https://www.figma.com/design/nuZJ8HXygO5tsX8EaguDqf/230701334---SREYA-G---MEMORY-GAME? \\ t=nEKZ0jUAHck25XSy-1$