NATIONAL UNIVERSITY OF MODERN LANGUAGES

Human Computer Interaction lab Report – 3

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PROGRAM: BSSE (5th Semester)

COURSE: HUMAN COMPUTER INTERACTION

SUBMITTED TO: Sir Khateeb khan

DATE: 30 Sep 2025   **DAY: Tuesday**

LAB TASK 1: Evaluate a Web Form

```html
<!DOCTYPE html>
<html>
<head>
  <style>
    body { font-family: Arial; padding: 30px; }
    input, textarea, select { display: block; width: 300px; margin-bottom: 10px; padding: 8px; }
    label { display: block; margin-top: 10px; }
  </style>
</head>
<body>
  <h2>Contact Us</h2>

  <label>Name:</label>
  <input type="text">

  <label>Email:</label>
  <input type="email">

  <label>Subject:</label>
  <input type="text">

  <label>Message:</label>
  <textarea rows="5"></textarea>

  <label>Department:</label>
  <select>
    <option>Support</option>
    <option>Sales</option>
    <option>General Inquiry</option>
  </select>
  <button>Submit</button>
</body>
</html>
```

Screen Complexity Calculation (Original Form)

UI Element	Count	Weight	Total
Heading (h2)	1	1.5	1.5
Labels	5	1	5
Text Inputs	2	2	4
Email Input	1	2	2

UI Element	Count	Weight	Total
Textarea (Message)	1	2	2
Dropdown	1	3	3
Button	1	2	2
Total SCS			19.5

Screen Complexity = 19.5

LAB TASK 2: Redesign Page to Reduce Complexity

Strategies:

- Use grouped fields with labels inside inputs.

- Add icons inside inputs for intuitive hints.

- Replace dropdowns with radio buttons (if few options).

- Use collapsible sections if many fields

Register

👤 Full Name

👥 Father's Name

✉ Email

📞 Phone

Gender: ○ Male ○ Female

▼ **Additional Information (Optional)**

📍 Address
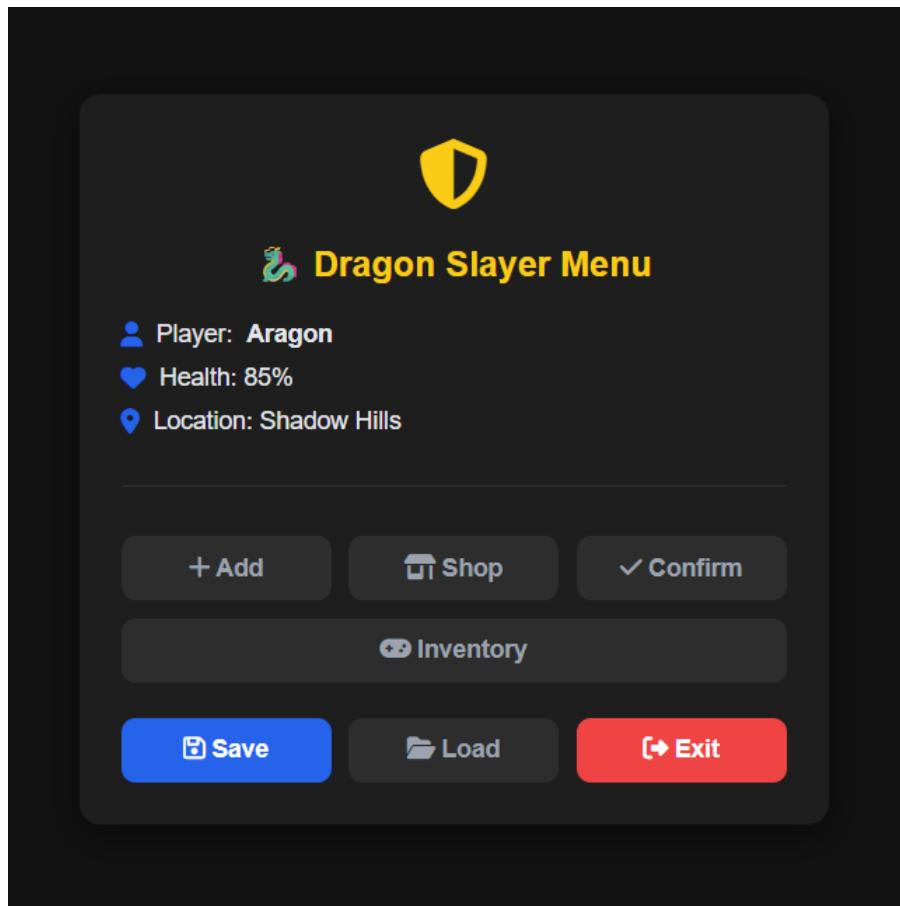
Date of Birth
📅 mm/dd/yyyy
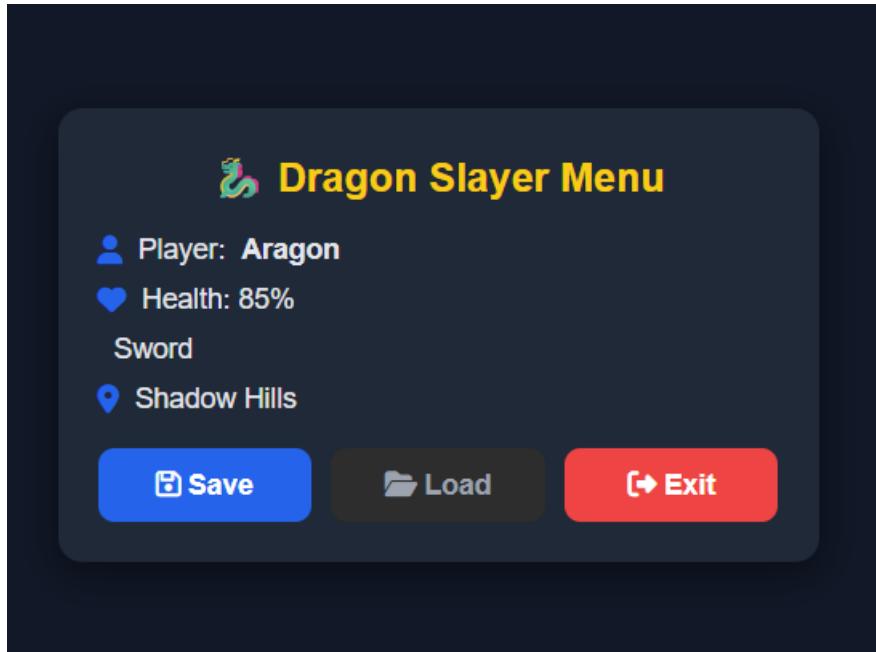
Submit

LAB TASK 4: Calculate and analyse the screen complexity of images given.

🛡️

🐉 **Dragon Slayer Menu**

👤 Player: **Aragon**
💙 Health: 85%
📍 Location: Shadow Hills

➕ Add   🏪 Shop   ✓ Confirm

🎮 Inventory

💾 Save   📂 Load   ↪ Exit

LAB TASK 5: write html code to Visually Redesign.

Task 6: Evaluate a Web Form

Original Form Elements

UI Element	Count	Details
Heading (h2)	1	"Contact Us"
Labels	4	Name, Email, Phone, Message
Text Input Fields	3	Name, Email, Phone
Textarea	1	Message box
Button	1	Submit button

Grouping

- Group 1: **Personal Info** (Name, Email, Phone)

- Group 2: **Message Section** (Message box)

- Group 3: **Submit Action** (Button)

Screen Complexity Calculation

Type	Count	Examples
Graphical Elements (A)	5	3 input boxes, 1 textarea, 1 button box
Alphanumeric (B)	6	Heading, 4 labels, button text

SC=A+B=5+6=11

Reduced Complexity (After Grouping & Redesign)

UI Element	Count	Details
Heading (h2)	1	"Contact Us"
Labels (Grouped)	3	Personal Info, Message, Submit
Input Fields	3	Name, Email, Phone
Textarea	1	Message box
Button	1	Submit

- **Graphical Elements (A)** = 5 (same as before)

- **Alphanumeric Elements (B)** = 5 (reduced, because labels are grouped)

SC=A+B=5+5=10

Task 7: Use Html to Visually Redesign

Recreate the original and redesigned layout.

Show how grouping reduces visual load

Redesign:

Contact Us

Personal Information

Name:

Enter your name

Email:

Enter your email

Phone:

Enter your phone

Message

Type your message

Action

Submit