HCI Practical Lab Manual

Practical 7 - Fitts' Law Experiment + Layout Optimization

Aim:

To measure interaction speed using Fitts' Law and optimize UI layout.

Objectives:

1. Use a Fitts' Law testing tool or Python app.

2. Measure click times for targets of varying sizes/distances.

3. Apply Fitts' Law to predict times.

4. Rearrange layout to minimize movement time.

5. Retest and compare.

6. Document improvements.

Tools / Software Required:

- Python with Tkinter / Online simulator

- Stopwatch or timer

- Spreadsheet

Procedure:

1. Prepare test with different target sizes/distances.

2. Have users click quickly.

3. Record times and errors.

4. Apply Fitts' Law.

5. Rearrange layout and retest.

Submission Format:

- Recorded times before and after optimization.

- Fitts' Law calculation sheet.

- Screenshots of layouts.