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Course: **Human-Computer Interaction**

Topic: **Statistical data analysis in HCI research**

Resource: **A mock-up case (student assignment)**

The experiment investigates the potential effects of placing a menu component within the user interface of a specially developed web application. Specifically, four menu design options are examined: drop-down menu at the top, pop-up menu at the bottom, docked menu on the left, and docked menu on the right.

30 participants accessed the test application and completed specially prepared tasks in all four versions of the menu in the previously defined order. After completing all tasks, participants had to rate their satisfaction with each menu design. A specially developed questionnaire with a minimum total score of 0 (worst score) and a maximum total score of 15 (best score) was used to assess the level of satisfaction. The values of all scores for each individual participant are available in an Excel file (below).

Perform a statistical analysis of the available data and draw appropriate conclusions.

DATA

CASE 02	Top menu	Bottom menu	Left menu	Right menu
	Questionnaire scores [from 0 to 15]			
Participant 01	10	12	7	6
Participant 02	11	11	9	9
Participant 03	13	15	11	8
Participant 04	12	12	11	9
Participant 05	14	15	12	10
Participant 06	10	14	10	8

Participant 07	11	13	10	9
Participant 08	13	13	9	10
Participant 09	13	13	11	9
Participant 10	14	12	9	6
Participant 11	11	13	8	7
Participant 12	14	15	11	10
Participant 13	15	14	10	9
Participant 14	11	9	10	7
Participant 15	12	11	10	7
Participant 16	12	12	10	9
Participant 17	13	11	14	9
Participant 18	15	14	12	9
Participant 19	11	14	13	10
Participant 20	12	15	13	10
Participant 21	11	13	12	11
Participant 22	10	13	11	9
Participant 23	9	12	9	5
Participant 24	11	10	7	6
Participant 25	12	15	11	11
Participant 26	12	13	10	9
Participant 27	12	14	12	10
Participant 28	10	11	10	6
Participant 29	10	12	9	6
Participant 30	10	11	9	7