

Human Computer Interaction HCI : Theory ISE 2 of 2

Development Activity

SUBMISSION DEADLINE : 16/10/2024@5pm

Activity - 3 : User Interface for “Information Search” and “Data Visualization”

A] Using “**Five-Stage Search Framework**”, design the “**Information Search**” User Interface for the following University Schema

Classroom (building, room number, capacity)

Department (dept name, building, budget)

Course (course id, title, dept name, credits)

Instructor (ID, name, dept name, salary)

Section (course id, sec id, semester, year, building, room number, time slot id)

Teaches (ID, course id, sec id, semester, year)

Student (ID, name, dept name, tot cred)

Takes (ID, course id, sec id, semester, year, grade)

Advisor (s ID, i ID)

time slot (time slot id, day, start time, end time)

prereq (course id, prereq id)

B] Design the “**Data Visualization**” UI for above “**Information Search**” using “**Shneiderman's visual information-seeking Mantra**”

Note : Use Node Express JS , **React** platform with Material UI framework, React Chart Library or any advanced UI framework. Use MySQL database with sample data.

Rubrics with CO

Rubrics	Marks	CO
Use of Five-Stage Search Framework	3	CO1
Use Shneiderman's visual information-seeking Mantra	3	CO2
Actual implementation	10	CO3
Demo (video recording)	4	CO4
Total ISE (2 of 2) Marks	20	

Instructions :

1. Each student will do this work independently.
2. Create a folder by your PRN_HCI_ISE2 e.g. "22520008_HCI_ISE2"
3. Create separate React project in ABOVE FOLDER by the name "HCIactivity3".
4. Create a "screenshots.docx" file in root folder (PRN_HCI_ISE2) and store the screen shots of screens. Also mention the details of react framework used, their URL etc.
5. **Prepare video recording of complete demo with commentary (explanation).**
Keep this video file in root folder.
6. Zip the "PRN_HCI_ISE2" folder & email this zipped file to bfmomin@yahoo.com.
7. **Not emailing of soft copies to above emailID within deadline, will treat as ABSENT & NULL ISE (0 marks).**
8. **Deadline : On or before 16/10/2024@5pm**

Date : 08/10/2024

Dr. B. F. Momin
Course Teacher