### CS23A34 - USER INTERFACE DESIGN LABORATORY ACADEMIC YEAR:2024-2025 (EVEN)

### **INDEX**

### **Reg. No : Name :**

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### **Branch : Year/Section :**

### **LIST OF EXPERIMENTS**

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| **Experiment No:** | **Title** | **Tools** |
| 1 | Design a UI where users recall visual elements (e.g., icons or text chunks). Evaluate the effect of chunking on user memory. | Figma. |
| 2. | Develop and compare CLI, GUI, and Voice User Interfaces (VUI) for the same task and assess user satisfaction. | Python (Tkinter for GUI, Speech Recognition for VUI) / Terminal |
| 3 | A) Create a prototype with familiar and unfamiliar navigation elements. Evaluate ease of use with different user groups. | Proto.io |
| B)Create a prototype with familiar and unfamiliar navigation elements. Evaluate ease of use with different user groups. | Wireflow |
| 4 | A)Conduct task analysis for an app (e.g., online shopping) and document user flows. Create corresponding wireframes. | Lucid chart (free tier) |
| B)Conduct task analysis for an app (e.g., online shopping) and document user flows. Create corresponding wireframes. | Dia (open source). |
| 5. | A)Simulate the lifecycle stages for UI design using the RAD model and develop a small interactive interface. | Axure RP |
| B)Simulate the lifecycle stages for UI design using the RAD model and develop a small interactive interface. | OpenProj. |
| 6. | Experiment with different layouts and color schemes for an app. Collect user feedback on aesthetics and usability. | GIMP (open source for graphics). |
| 7. | A)Develop low-fidelity paper prototypes for a banking app and convert them into digital wireframes. | Pencil Project |
| B)Develop low-fidelity paper prototypes for a banking app and convert them into digital wireframes. | Inkscape. |
| 8. | A) Create storyboards to represent the user flow for a mobile app (e.g., food delivery app). | Balsamiq |
| B) Create storyboards to represent the user flow for a mobile app (e.g., food delivery app). | OpenBoard |
| 9. | Design input forms that validate data (e.g., email, phone number) and display error messages. | HTML/CSS, JavaScript (with Validator.js). |
| 10. | Create a data visualization (e.g., pie charts, bar graphs) for an inventory management system. | Java Script |

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