

Sri Lanka Institute of Information Technology

B.Sc. Honours Degree/Diploma in Information Technology Specialized in Information Technology

Final Examination Year 3, Semester 2 (2019) Regular Intake

IT3060 - Human Computer Interaction

Duration: 2 Hours

October 2019

Instructions to Candidates:

- ♦ This paper has 03 questions.
- ♦ Answer all questions.
- ◆ Provide answers **only** in the provided spaces below the questions.
- ◆ The total marks for the paper is 100.
- ◆ This paper contains 10 pages including the cover page.
- ◆ Electronic devices capable of storing and retrieving text, including calculators and mobile phones are not allowed.

Question 1

(30 Marks)

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Analyze the scenario given below and answer the questions a-e.

MediPro is a proposed medical software, which handles all the services relevant to outdoor patients including doctor channeling. You are hired to design this software application. MediPro provides its services to OPD patients for quick online doctor channeling and order prescribed drug(s) to the doorstep as a pay on delivery in case of emergency. The doctor can upload drug prescription (medication) details to the MediPro system after examine the patient. MediPro system generates a QR code for the drug prescription and patient can transfer it to any registered pharmacy. The pharmacist can update the system once drug(s) are dispatch for delivery or if unavailability of any prescribed drug(s).

Patients can access prescription details if they have a valid patient account. Otherwise, the patient should create an account.

a. Suggest the most suitable software solution for MediPro among Desktop, Web and Mobile app. Justify your suggestion.

(05 Marks)

Desktop / Web app / Mobile app	(00 11241115)

b. State two (02) stakeholders, their user requirements and business goals for this application.

(10 Marks)

stakeholders	user requirements	business goals

c. Sketch a storyboard for the doctor channeling and the drug ordering process.

The design should involve the user initiating the software, steps in the doctor chandelling process, order and receiving drugs.

Note: The marking is based on the completeness, clearness, and the flow of the scenario.
(12 Marks)

d.	Design wireframes to represent four (04) main GUI's of MediPro.	
	•	(10 Marks)
		(10 Marks)

e.	
	(03 Marks)

uestion	3	(30 Marks	
a.	What is interaction design? Explain using the web application develop HCI project.		
		(05 Marks	
b.	Compare main interaction types by giving suitable examples for each.	(06 Marks	
		(00 Marks	
c.	What is "coded prototype"? State two (02) main reasons to select it fo	r	
	prototyping.	(04 Marks	

I.	Choose a typical user profile, and produce a detailed, compl	
		(05 Marks

II.	Formulate a detailed main scenario for the selected user above	
 		(06 Marks)
III.	Explain how to use "contextual inquiry" method to find real	needs of
	users of the proposed game.	(04 Morks
		(04 Marks
 	===== End of the Question Paper ======	