

COMPUTER SCIENCE TRIPOS Part IA – 2022 – Paper 3

6 Interaction Design (lec40)

As part of the government's response to the COVID-19 pandemic, your design agency has been contracted by the Ministry of Health to design an application for reporting test results and notifying members of the population when they need to isolate.

- (a) What user research methods would you use for data gathering before designing? List two methods that you would recommend using, why you think they would be suitable for this project, and what data you expect to collect with each of the methods. [6 marks]
- (b) Following data gathering using the methods listed above, your team has conducted stakeholder and requirements analyses. List and describe the identified stakeholders. Identify three key requirements that the application must meet. [6 marks]
- (c) Propose and motivate one design principle emerging from the stakeholder and requirements analyses above which the design of the application should follow. [4 marks]
- (d) Discuss one potential trade-off between usability and data security & privacy. [4 marks]