



**UNIVERSITY
OF LONDON**

CM3070

BSc EXAMINATION

COMPUTER SCIENCE

Final Project

Release date: Monday 10 March 2025 at 12:00 midday Greenwich Mean Time

Close date: Tuesday 11 March 2025 by 12:00 midday Greenwich Mean Time

Time allowed: 4 hours to submit

INSTRUCTIONS TO CANDIDATES:

There are four questions in this examination paper. You should answer no more than **THREE** questions. Each question carries 20 marks. The marks for each part of a question are indicated at the end of the part in [.] brackets.

There are 60 marks available on this paper.

A handheld non-programmable calculator may be used when answering questions on this paper but it must not be able to display graphics, text or algebraic equations. Please hold your calculator to the camera at the start of the examination to clearly show the make and type.

You may use **ONE** A4 page of previously prepared notes in this examination. Please hold up your notes to the camera at the start of the examination.

File upload is **NOT** permitted in this examination.

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Question 1 Project process

- (a) What are the four phases (the four “D’s”) of doing a project? Name and describe the main aspects of each of these phases. [8 marks]
- (b) For each of the phases, describe your process — what you did — for your own project. Mention and evaluate the significant choices you made. [12 marks]

Question 2 Presentation of the Project

- (a) How did you structure the final submission presentation of your project, namely the report and the video? While there were clear constraints you had to work within, such as format and length limits, there were also choices to be made about what content to include and your presentation approach. Describe with reasons and justification the key decisions you made. Also comment on the effectiveness of these choices. [8 marks]
- (b) Imagine you have to give a half hour talk about your project, for example in a work meeting with directors, or a research conference, or other appropriate setting. For the talk — which would be in person — you would make use of a powerpoint and any other appropriate visual aids or media.
- Describe the setting in which this talk would take place, with justification for why this would be an appropriate presentation context for your particular project. [2 marks]
 - Describe the structure and approach of your talk. Include details, with justification, of things such as — but not limited to — your overall goal for this presentation, the number of slides in your powerpoint, the general content of each slide, any other media you would want to include, your choices of what content to include and what to leave out, etc. [10 marks]

Question 3 Reflection and continuation

- (a) Evaluate your project as a whole. What were its main strengths and weaknesses? Note that this should focus on the project itself, rather than on your own process or abilities. Your evaluation must be accompanied by justification of any claims. [10 marks]
- (b) Imagine that a student in the future was to take your project outcomes as a starting point, in order to develop a new project using yours as the basis. Describe an appropriate project that could be done that builds on your project outputs and outcomes. Motivate the choice of project, and give sufficient detail for this work to be taken forward. [10 marks]

Question 4 Technical aspects

- (a) What was the most significant technical challenge you encountered in your project? Why was it important to solve this challenge? [8 marks]
- (b) Explain which specific computer science techniques or tools you selected to address this challenge, and what influenced the choices you made. Provide examples of key functionality you prototyped during the process, with justification of why you chose these functionalities, and their effectiveness. [12 marks]

END OF PAPER