**This question paper consists
of 2 printed pages each
of which is identified by the Code
Number** (COMP281101)

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School of Computing

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COMP2811

User Interfaces

Answer both questions

Time allowed: 1 hour

Question 1

Imagine a bathroom company approaches you for advice on designing a pre-sales website to engage potential customers in exploring its products and services. (Note: 'pre-sales' implies there is no need to handle the actual order taking and payment.)

More specifically, this company specialises in bathroom equipment for elderly people who have mobility issues. Products include walk-in baths, easy access showers, accessories such as specially designed taps, bath seats and so on. It also offers a design-and-fit service. It has been suggested that some kind of social functionality could be added to this website. A good user experience is the main target while interacting with the website.

(a)   Use the PACT (People-Activity-Context-Technology) framework to analyse the problem space that can give an overview of the possible breath of the issues.

[8 marks]

(b)   Following on from (a), sketch the design for two screens - the home page and a product browsing page. Discuss the rationale for your design, citing design patterns if appropriate.

[12 marks]

[question 1 total: 20 marks]

Question 2

University of Utopia plans to enable their students to interact with their library system using a smartphone in addition to the current website which is designed for workstations. In particular, there has been a suggestion of introducing a "my library" feature on the smartphone for a core set of features that may be useful for their undergraduate students, such as (1) search for own record of borrowed books, (2) check reserved items, (3) maintain a to-read list, and (4) pay for library fines.

(a)   Suggest a usage scenario of a student interacting with a feature to be provided by 'my library'. It should show the main steps of interaction and how the smartphone will support the tasks.

[8 marks]

(b)   A high-fidelity prototype of 'my library' has been produced. Discuss a plan for a user evaluation of this prototype. You should state the approach you will use and include the main stages of the evaluation and the methods involved. Justify your decisions.

[12 marks]

[question 2 total: 20 marks]