

Question **1**

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Answer briefly

What are the main elements that need to be modelled when defining and designing a user interface?

Question **2**

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Answer briefly:

What model can be used to describe user's interaction with a user interface? Describe the model briefly and illustrate how it can be used to inform user interface design.

Question **3**

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What is an essential use case? Why is it relevant in user interface design?

Question **4**

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Answer briefly:

Visual characteristics are important in user interfaces. What kind of guidelines are available that support visual design?

Question **5**

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Answer briefly:

What is the role of command line user interfaces in contemporary interactive systems? What needs to be taken into account in the design of textual / command line user interfaces?

Question **6**

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What aspects constitute the context of interaction design? What does that mean for the development work?

Question **7**

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Describe three most important dialog design principles and explain briefly why they are the most important ones.

Question **8**

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What does usability mean for user interface design?

Question **9**

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User interfaces can be created using imperative and declarative means. Describe briefly how these approaches and technologies appear in user interface design and assess their pros and cons in the UI development work.

Question **10**

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Long essay (6p)

You have been asked to design an electronic voting system for regional elections in the future. Based on the contents and approaches of the course, describe in a nutshell, what kind of process would be appropriate for the user interface development work? Furthermore, consider what kind of methods would ascertain a high-quality outcome from the viewpoint of future users? Illustrate the challenges that you might face during the development work and describe how you would overcome them. At the end of your answer, explore how the resulting user interface would appear. Do not forget to include references to your answer.