Software Engineering

Agenda: Assignment #01 - Software Engineering

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Assignment details

Please, select one problem from Chapter 1 End Exercises and solve with your own words

Assignment details - Exercises

1.1. Explain why professional software that is developed for a customer is not simply the programs that have been developed and delivered.

1.2. What is the most important difference between generic software product development and custom software development? What might this mean in practice for users of generic software products?

Assignment details - Exercises

1.3. Briefly discuss why it is usually cheaper in the long run to use software engineering methods and techniques for software systems.

1.4. Software engineering is not only concerned with issues like system heterogeneity, business and social change, trust, and security, but also with ethical issues affecting the domain. Give some examples of ethical issues that have an impact on the software engineering domain.

Assignment details - Exercises

1.5. Based on your own knowledge of some of the application types discussed in Section 1.1.2, explain, with examples, why different application types require specialized software engineering techniques to support their design and development.

1.6. Explain why the fundamental software engineering principles of process, dependability, requirements management, and reuse are relevant to all types of software system.

Assignment details - Exercises

1.7. Explain how electronic connectivity between various development teams can support software engineering activities.

1.8. Non-certified individuals are still allowed to practice software engineering. Discuss some of the possible drawbacks of this.

Assignment details - Exercises

1.9. For each of the clauses in the ACM/IEEE Code of Ethics shown in Figure 1.4, propose an appropriate example that illustrates that clause.

1.10. The "Drone Revolution" is currently being debated and discussed all over the world. Drones are unmanned flying machines that are built and equipped with various kinds of software systems that allow them to see, hear, and act. Discuss some of the societal challenges of building such kinds of systems.

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| **2** | **References** |

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| 4 | Q & A |

References details

Software Engineering, Global Edition, 10th edition, Ian Sommerville, 2016, Pearson;
Chapter 1 - Exercises (page 41-42)

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2	References

3	**Submission details**

4	Q & A

Submission details

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Submission details

Please, use 4-8 page slides

Please, feel free to select any format - Microsoft Powerpoint, Google Slides, PDF etc

Submission details

Please send email (kibo.kz.contact@gmail.com) indicating
Software Engineering - Assignment #01
Your Surname & Name

Submission details

DEADLINE: September 30, 2023 23:59:59

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Q & A