2018年第一学期

《软件工程概论》 平时作业(4-5章)

**开课学期： 2018年第一学期（春季）**

**课 时： 32**

**学 分： 2**

**课程属性： 必修**

**考核方式：考试 闭卷笔试 70%**

**课程作业 30%**

**教学班级： 1613011 1613013**

Chapter 4 Capture the Requirements ?

Part 1 Fill Blanks

1． A requirement is an of 。

2．The process for capturing the requirement has for steps, there are ，

, ,and 。

3. The requirement captures from seven system stakeholders, they are

, , , , , ,and .

4. The sources of possible requirements are the , , , ,

, and the .

5. There four type of requirement, they are the , , and . 6. There are two kinds of requirement documentations, they are and .

7. There are three core constructs in ERD, they are the , and .

8. There are four core construct in DFD, they are the , , and .

9. In UCD, a large box represents the system .

10. There two approaches to prototype, they are the and .

Part 2 Brief Description and Exercises

1. Briefly describe the roles of the seven groups of stakeholders.
2. Briefly describe the function of the four types of the requirement.
3. Briefly describe the functions of three core construct of ERD.
4. Briefly describe the functions of the two approaches of prototyping.
5. Do the Exercise 12 (only draw out USD) of this chapter.
6. Do the exercise 13 of this chapter.

Chapter 5 Design the Architecture

Part 1 Fill Blanks

1. Design is the creative process of figuring out how to implement all the customer’s requirements; the plan is called the design.
2. The software architecture is consisted by three parts, they are ,

and .

1. In pipe-and-filter style, the functions is to pass input data through a sequence of data-transforming components, and the simply transmit data from one filter to the next without modifying the data.
2. In client-server architecture, the component offer services, and access them using a request/reply protocol.
3. In peer-to-peer architecture, each executes as its own process and acts as both a client and a server to other peer component.
4. In publish-subscribe architecture, A component express interest in an event by to it. When another component that the event has take place, the subscribing component are notified.
5. A repository style consists of two types of component, one is called , another is called component.

Part 2 Brief Description and Exercise

1. Briefly describe the process for developing a software architecture.
2. Drawn out(画出) the layout architecture of ISO model for network communication.
3. Do the exercise 2 of this chapter.

End of Excise of chapter 4-5.