Assignment 2

1. Can you give examples to explain software requirement: ambiguity, inconsistency, incompleteness respectively (the example should not be from the lecture)?

   Example: A software that can monitor the room temperature and give warnings.

   1. when the room temperature is below 40 degree, keeps monitoring.

   2. when the room temperature is above 40 degree, gives out warning.

   3. if there is a fire is the room and the temperature is above 100℃, set off fire alarm.

   Ambiguity: whether it's 40 degree Fahrenheit or 40 degree Celsius?

   Incompleteness: what to do when the room temperature equals to 40 degree?

   Inconsistency: if the room temperature is above 100 degree, should the software give out warning or set off the fire alarm?

2. Use a table to describe the types of software requirements.

Categoried by	Readers		Contents		
Types	User requirements	System requirements	Functional requirements	Non-functional requirements	Domain requirements
Description	Usually are written in natural language	Detailed descriptions of the system's functions, services and operational constraints	• Describe functionality or system services • Input/Output • Behaviours	Specify the system/system process properties and constraints • Product requirements • Organizational requirements • External requirements	The characteristics of domain of the software

Provided for and written for	for customers by either customers or developers	for developers by developers			