

CT 1414

System Analysis and Design 2

2013/2014

**Tutorial#5**

**Q1. Below you have the use case description and class diagram. Write the contracts for this use case**

**Contract CO1**: Request Patient Information

**Contract CO2:** Find Appointment

**Contract CO3:** Reserve Appointment

**Contract CO4:** Print Appointment Slip

**Use Case:**

**Use Case: Make appointment**.

**Actor:** Patient (initiator), Nurse.

**Purpose:** To record a new appointment.

**Overview (Success Scenario):**This use case begins when the customer ask a nurse to reserve an appointments with a certain doctor. On completion, an appointment slip is printed.

**Type:** Primary, Essential.

|  |  |
| --- | --- |
| **System Response** | **Actor Action** |
|  | 1. This use case begins when the patient come to the nurse or call her to ask for an appointment.  |
| 3. Show patient information.  | 2. The nurse request the patient id from the patient and enter it. (to get patient information) |
| 5. System returns all possible appointment dates and times for the specified doctor.  | 4. Nurse ask the patient for doctor name and department and enter them. (to find appointment) |
| 7. Reserves the appointment. | 6. Nurse tell the patient about all the possibilities and get from him/her the most desired one, and reserve it.  |
| 9. Generate appointment slip. | 8. The nurse request the appointment slip. |
|  | 10. The nurse gives the printed appointment slip to the patient. |
|  | 11. The patient leaves with appointment slip. |

**Alternatives:
Line 2.** If patient was a new one, then a new file should be created; see *open file* use case.

**Line 2.** If patient forgot ID, provide Phone number.

**Line 3.** If the ID was wrong, the system will display a message to indicate that

**Class Diagram:**

