Concordia University

Department of Software Engineer and Computer Science

# COMP 6231, Summer 2016

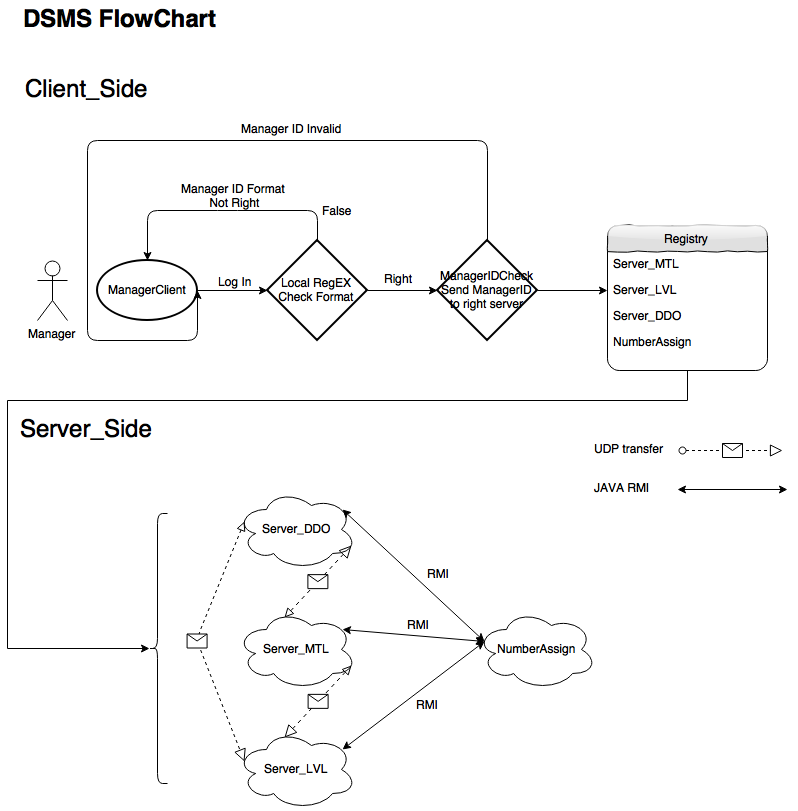
# Assignment 1

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## About this assignment 1:

To complete this assignment, we use Eclipse 4.5.1 with JDK&JRE 1.8.0\_65. The core techniques of this DSMS system is using JAVA RMI and UDP programming.

## Design of DSMS:



Step 1: Check Manager ID Format.

Step 2: If the Manager ID format is right, go to next step, if not right, return to step 1.

Step 3: Check Manager ID whether is exist in the server, if exist go to next step, if not, return to step 1.

Step 4: enter to main menu, do the request.

## Architecture and Data structures:

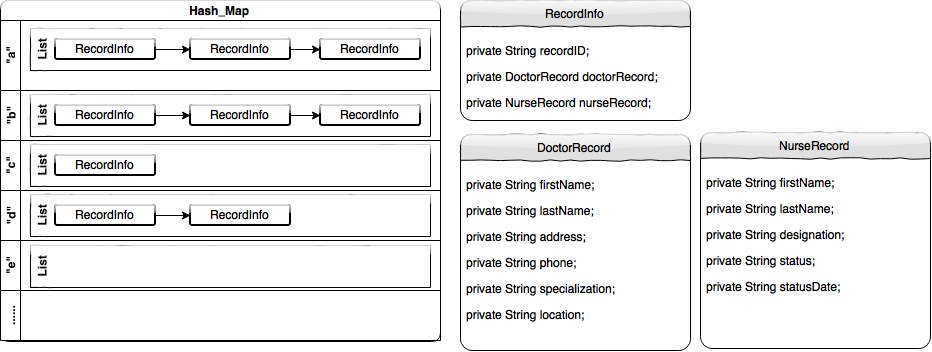
Architecture:

About the design of this DSMS, we have multiple packages like below:



In our project, we have three files: Client\_Side, Record\_Type, and Server\_Side. In Client\_Side, it contains managerClient which is a client. In Record\_Type, it contains a DoctorRecord class, a NurseRecord class and ReocrdInfo class. In Server\_Side, it contains three “server”: ClinicServer\_MTL, ClinicServer\_LVL, ClinicServer\_DDO.

Data Structure:



In our project, we use hash map as data structure like above. The key of the hash map according to the first letter of the last name indicated in the records. The value of the hash map contains an array list RecordInfo which contains a record ID, a doctor record or a nurse record.

## Test Scenarios:

## Most Important part: