Java Programming  
  
Report #2: Java IO/Databases  
ARM   
(Application for Restaurant Management)

**Class : 18CLC2-KTPM**

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# Revision History

[*Provide in this section a revision history table. A such sample table is given below*]

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 21/11/2020 | 0.0.1 | Login and Sign-up protoype | Hoàng Dương |
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# Introduction

*[You present in this section the the purpose of your report, explain how you store your application's data (either in files or a database management system), give the reason for your choice.*

*]*

Our application is tended to be run on multiple machines so we need some ways to transfer data around as needed.

E.g.

- When administrator create new dish, all machines should see it and update to Menu.

- There are many orders from many machines, bills need to be stored so manager can see them later on

The list go on and on.

We decide to choose MongoDB for the sake of easy to design schema and implementation.

Data are stored as JSON format in one server which implement RestAPI for CRUD operation. Other machines would connect to and make request as needed

# Analysis and design

*[ Present what information should be stored in your application.*

*Present in detail how you organize your data. For example:*

*• If you use the files to save/load your data, then indicate the type of the file (a plain text file, XML, JSON, etc.) and the format / schema of your data.*

*• If you are using a database management system, then indicate the name of the system you are using, design the data structure and show the relationships between tables, and so on.*

*]*

Stored information:

* User account of managers and employees
* List of dishes
* List of all bills
* List of customer

JSON schema:

# Implementation

*[ Explain in this section how you load data information from input file or save data to output file / how you connect with database to load, edit or delete information etc. using Java]*

# Sample data

*[Provide here sample data structure that you designed in the previous section. This is the data you can you to test your application later ... ]*

# Result

*[Explain what you have achieved until now (for both this report and code source) , advantages, disadvantages and planned solutions (if possible)]*

# Plan

*[Give your project plan (in detail) until the end of the project: task decomposition, ressources allocation, duration of each task, etc.]*

# References

*[Provide all the resources to use in your project, including existing codes, algorithms used, books, reports, links, etc. ]*