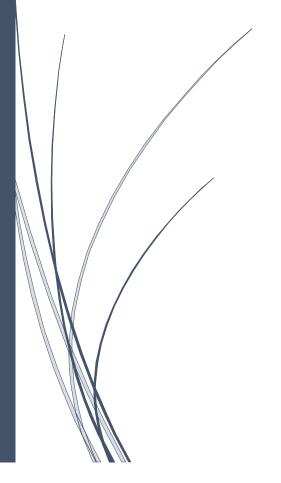
4/23/2023

ARCHITECTURE

EMPLOYEE TRACKING SYSTEM



PARAMITA ineuron

ABSTRACT

The Employee tracking application is prepared as a console-based core java project. The system tracks the performance of all registered employees in an organisation, involved in different projects. The detailed address of the employees is stored in a different entity and may be referred to when tracking of employees is necessary or their proximity to each other and involvement in different projects may need to be conveniently assigned.

The Manager entity of the system benefits the managerial staff to track the employees efficiently to know their allotment, department, progress, and scheduling data.

This system requires no web server and may be executed from a digital device within the onsite premises of an organisation which can effectively use it to understand the performance of its employees.

The system helps in

- Division of labour
- Understanding effectiveness of each employee
- Understanding employee potential
- Project constraints
- Effective scheduling
- Effective running of organisational framework
- Less cost involvement
- Tracking employee details

Architecture document generally indicates about the data arrangement of a system.

The system is primarily based on core java. the hardware software and other technical requirements of the system. Any platform and machine with an installed jdk can effectively run the application. As the project is developed in java it is:

- Portable
- Simple to understand and implement
- Any database can be used for stating minimum employee details
- Minimum storage and any RAM that effectively runs a java application can be used.
- The application uses the System Library which may vary from machine to machine.
- The application is developed in Eclipse IDE. It may be opened in any IDE or it may even run in command prompt.

The system to be developed is based on core java as a console-based project. The system is developed to track which employees are involved in which project and their details.

- **♣** Employees and their details are inserted in the system.
- ♣ Employee details, as Address may be updated in the system.
- **♣** Employees may be removed from a project.
- ♣ A Manager view is created in the manager class.
- ♣ No database and no connector are involved. Employees are stored in employee array.
- ♣ Linked hash map is used for a quick view of empid and employee_ name.
- ♣ The code is portable and easily maintained. It may well be enhanced and modified.

The architecture of a system generally shows the backend development of a system with its database and connectivity features.

Since this system is not connected to the database, it is not possible to show the system archeitecture with context to table creation.

The system might however be connected in future to implement database characteristics.

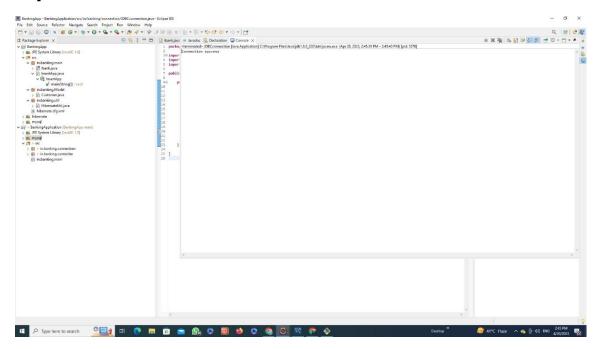
The mode of acceptance of data as input denotes the system architecture here.

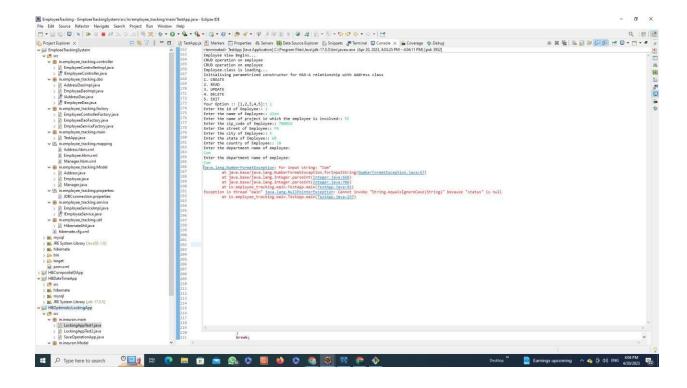
The database of the system is prepared with MySQL workbench and kept ready.

Features of connectivity for smooth functioning of java code with the the system:

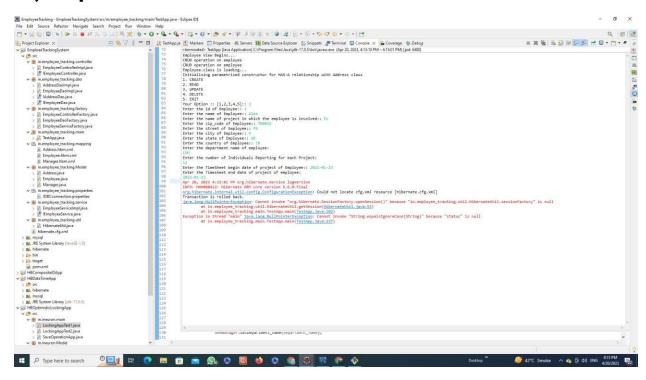
Entity name/ table name == class name

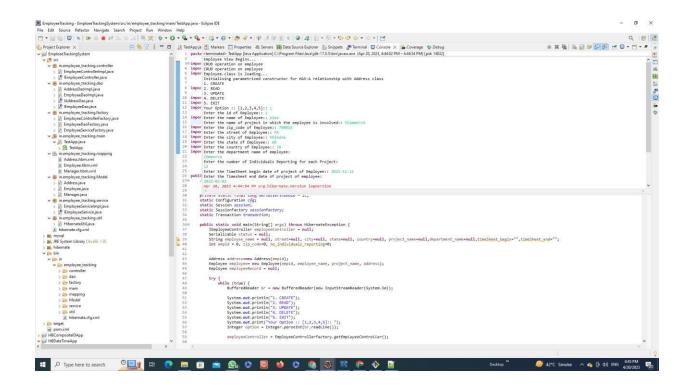
The connectivity of the system was checked with database for future implementation





The system faced problems with hibernate integration on the following so, the process was terminated:



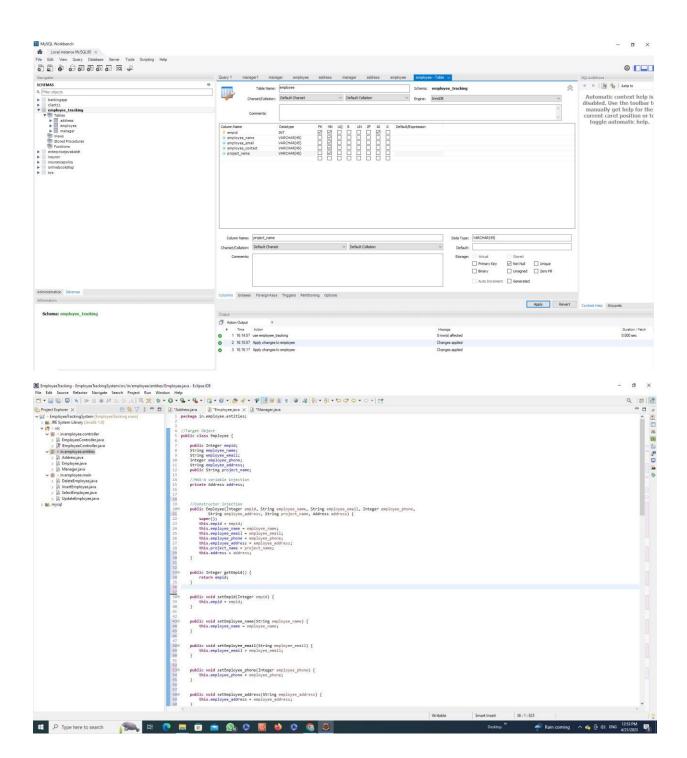


The present system is purely in core java and the database connectivity is not executed for the time being.

The tables created in the Schema employee_ tracking are:

Table name: employee

Primary key: empid



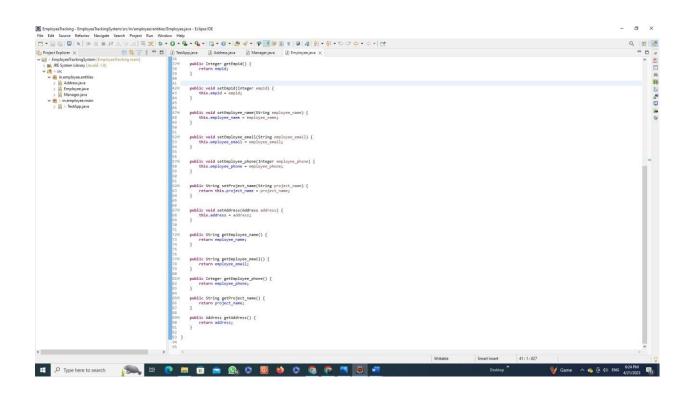
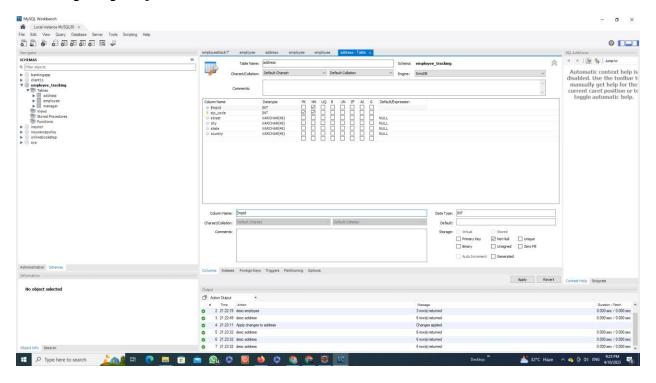
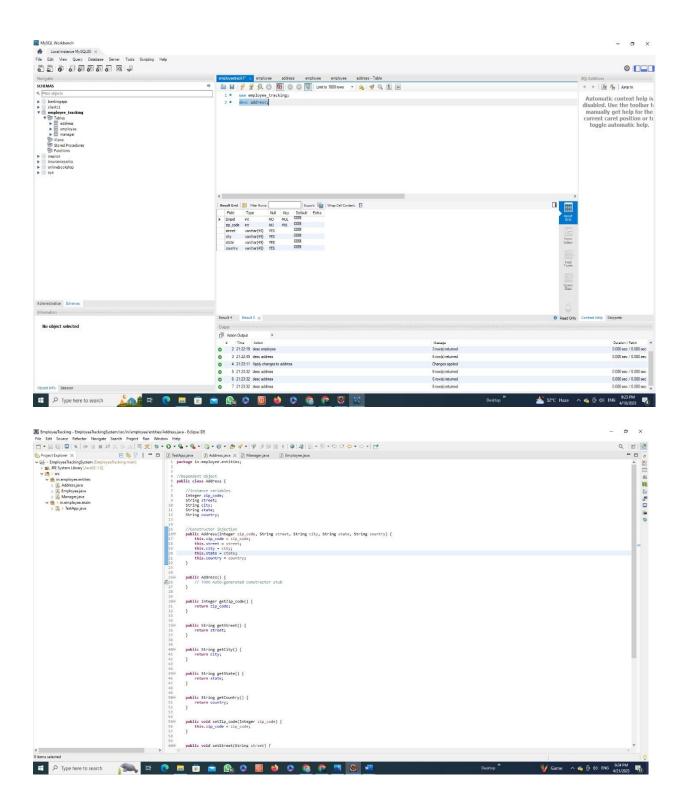
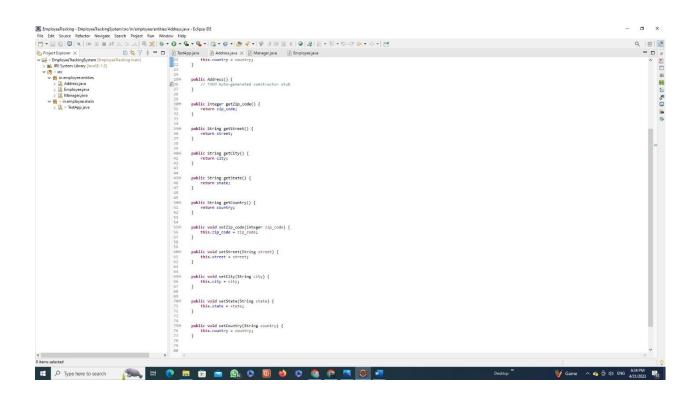


Table name: address

Primary key: zip_ code







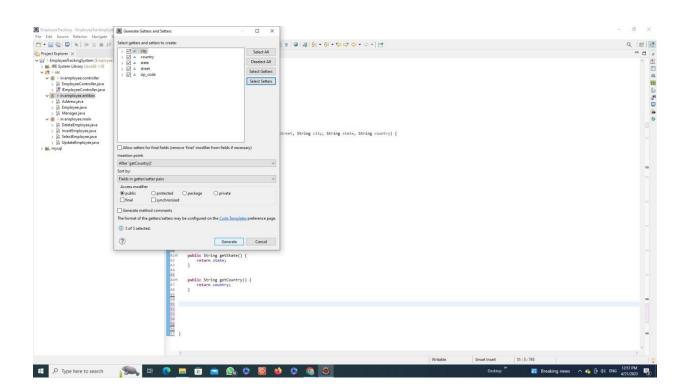


Table name: manager

No primary key of its own [weak entity]

In project set up manger class extends the Employee class

