Employee tracking system==>>WIREFRAME DOCUMENTATION

CORE JAVA PROJECT

PARAMITA 22

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

THIS TYPE OF DOCUMENTATION GENERALLY AIMS AT THE SYSTEM AS IT APPEARS FOR THE USERS OF THE SYSTEM

The whole system works from the admin perspective, so the Manager class which inherits the employee class is used to create the method viewManager() to display the required operations needed for the tracking of employees.

The working of system and its technical aspects are:

1.2.1.Admin Objectives

It is an admin dependent system which has no user functionality. The salient features of the Employee Tracking System are:

- It is easy to execute the java classes which is possible just with the presence of jdk
- It is an instant system of entry and checking entries of employee details, which involve less complication and hassle.
- It does not involve a web server at present as it does not give a facility of browser execution or deployment as such.
- It does not involve a database. It therefore hardly requires storage space.
- However it facilitates updation as it is prepared in an IDE and can be easily converted into a web based project using hibernate + MySQL or any other database in future.

1.1 Constraints

A few functionalities could not be implemented.

- The system suffers from the drawback of not being able to function at times due to session creation error for the application.
- The employer or the manager constructor which is created as a inherited class from the employee class, has no existence if employees do not exist. So, Manager class bears a IS-A relationship with the Employee class. The Manager class is created as the child class of Employee. Employee is the parent class of the manager class.
- Address bears a HAS-A relation with Employee. It is an
 Association of Composition type, with the Employee class.

Mysql was not used as JDBC was not to be used in this project.

1.2 Risks

Document specific risks that have been identified or that should be considered.

- The authenticity of users is not determined.
- The Console based project is not equipped to provide detailed view of employees. The database is not used which makes calling of employees view on the basis of employee id not possible.
- The project may suffer from updation and deletion
 anomalies for which the development need to be converted
 to different classes for insertion or deletion.

1.3 Out of Scope

- 1. The project is developed in the local system and the code in github repository.
- 2. The project is not hosted in any cloud platform and is still not available in on internet.
- 3. Setting of parameters in database for further use is not possible.
- 4. Employee authentication or the authentication of user of the application is out of scope.

2. TECHNICAL SPECIFICATIONS

It includes 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.

2.1. Hardware Requirements

Processor: Intel Pentium microprocessor with RYZEN

Main memory: 512 MB

Hard disk: 256 MB required

Keyboard: Standard

Monitor: 600x800 Resolution or above

Mouse: Scroll

2.2. Software Requirements

2.2.1. Tools and platforms used

Operating System: Windows11

Platform: ECLIPSE IDE [2022-09]

2.2.2. Software interfaces

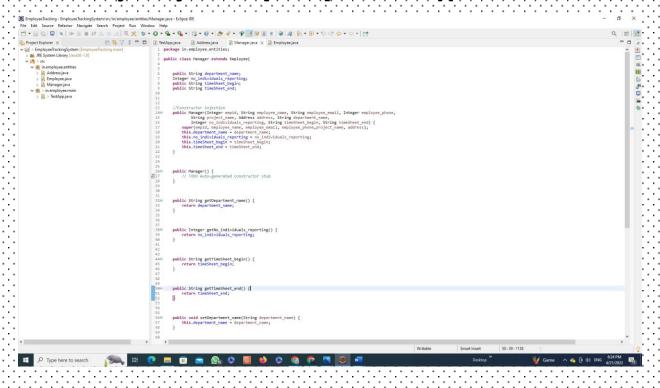
❖ Application: Eclipse IDE [2022-09]

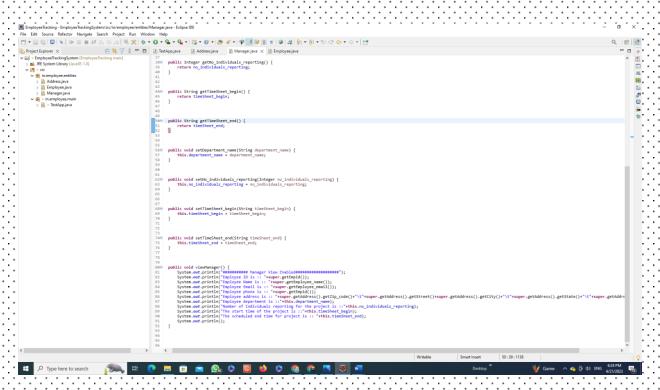
∜ jdk : 8

* Additional API: MS OFFICE

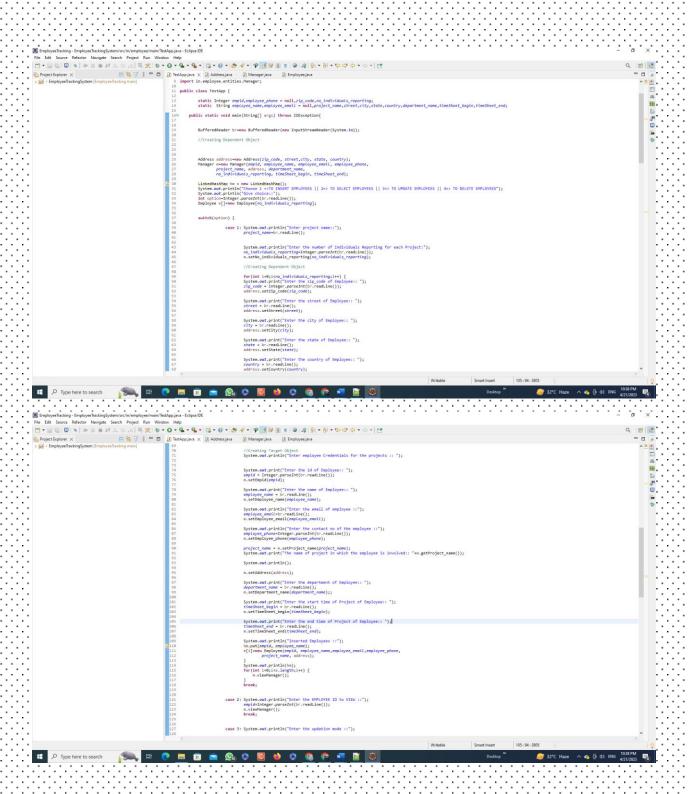
No DATABASE used and no schema needed to be developed. Technological Specification was not a matter of concern for the project.

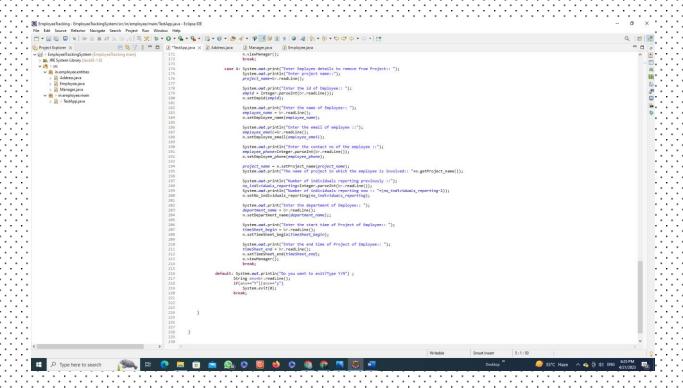
Manager java [Manager class] inherits the Employee class and is accessed by the sytem user [Admin] to run the application

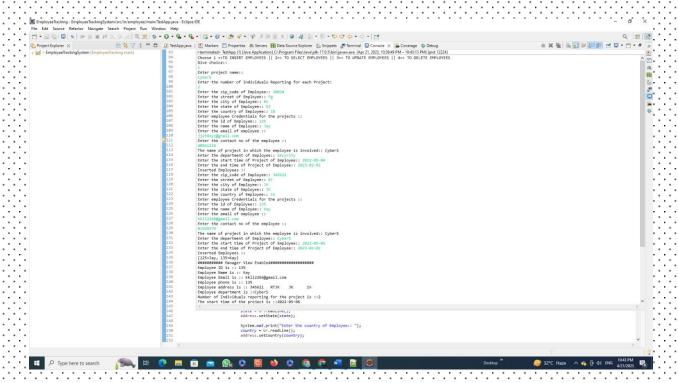


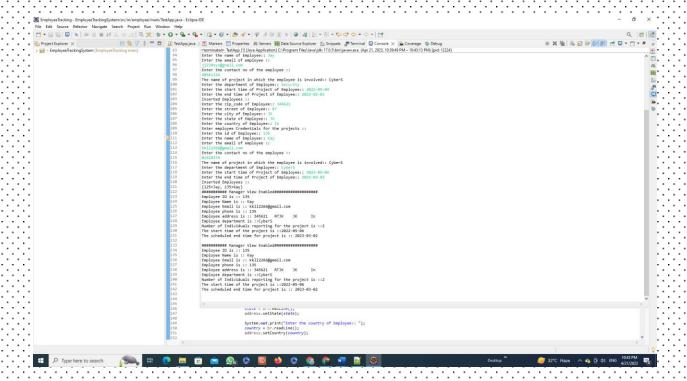


TestApp.java is the code executed by the user for CRUD operations to initiate EmployeeTracking









The array of Employee object and LinkedHashMap makes it easier to Track and View Employees.