Since 2009

Sachin Sir's

Techno Comp Academy

An IT Training Institute

Bridging Gap Between Developed & Developing India !

Branch : New Sangvi, Pune.

Contact : 9284293870

MVC Architecture

Database

User

Command Prompt   Switch-Case   Hibernate

UI Layer   Web Layer   Service Layer   DAO Layer

Presentation   Controller   Bussiness Logic   Database Logic
Logic   Repository Layer

MVC PROJECT LAYOUT

Controller   Service   DAO Layer

                                    StudentServiceFactory   StudentDaoFactory

main() method   --------------> StudentService(I)   --------> StudentDao(I)
                                     StudentServiceImpl(IMPL)   StudentDaoImpl(IMPL)

optionSaveStudent()   ----------> Integer addStudent(Student)   ----->   Integer saveStudent(Student)

optionFetchStudentById() ---------> Student fetchStudentById(Intger id) ----> Student findStudentById(Intger id)

optionFetchStudentByName() -------> List<Student> fetchStudentByName(String name) ->List<Student> findStudentByName(String name)

optionFetchStudentByCity() ------->List<Student> fetchStudentByCity(String city) ->List<Student> findStudentByCity(String city)

optionFetchAllStudent()   -------> List<Student> fetchAllStudent()   ------->   List<Student> findAllStudent()

optionUpdateStuedent()   ----------> boolean   modifyStudent(Integer id) -----> boolean updateStudent(Student student)

optionDeleteStuedent()   ----------> boolean   removeStudent(Integer id) -----> boolean deleteStudent(Student student)
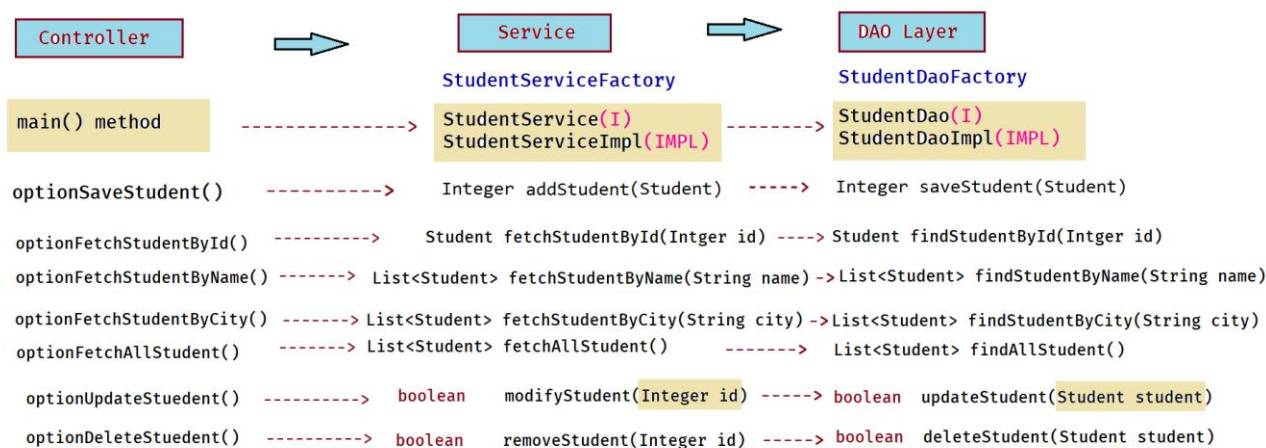
Future Enhancement

    Consider Student-Course(M-M) Relationship with 'REG_DATE' as Descriptive attibute.

    Tables/Entities -
        Student, Course, Registration

    Add Course Entity with Fields -
        cid , cname, amount, creation_date_time, last_updated_date_time

    Add Resgistration Entity(Third Table) with fields -
        rid, sid,cid,REG_DATE, creation_date_tim, last_updated_date_time

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Operations on Course Entity - [Take Help of Student Entity, Service, DAO]

--> Add Course
--> Update Course
--> Delete Course
--> Show Course details from id
--> Show Course details from cource name
--> Show ALL Course details

Operations on Registration Entity -
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1. Add Registrations details -

        boolean addRegistration(Integer sid, Integercid)   --> Service Layer Method
        boolean saveRegistration(Student S, Course C)   --> Dao Layer Method

2. Show List of Student Registered for a course-

        List<Student> fetchStudents(Integer cid)   --> Service Layer Method
        List<Student> findStudents(Course c)   --> Dao Layer Method

3. Show List of Course for a Student -

        List<Course> fetchCourses(Integer sid)   --> Service Layer Method
        List<Course> findCourses(Student S)   --> Dao Layer Method

 4. Cancel admision of a student for specific course -

        boolean removeRegistration(Integer sid, Course cid)   --> Service Layer Method
        boolean deleteRegistration(Student S, Course C)   --> Dao Layer Method