http://localhost:2025/students/save


```
{
  "name": "Shekhar",
  "address": {
    "city": "Chennai",
    "state": "TN",
    "zip": "60001"
  },
  "enrollments": [
    { "courseId": 1 },
    { "courseId": 2 },
    { "courseId": 3 }
  ]
}
```


This JSON means:

- Student name is **Shekhar**.
- He lives in **Chennai, TN, 60001**.
- He is enrolling in **three courses** with ID

http://localhost:2025/courses/save


```
[
  {
    "name": "Mathematics",
    "description": "Basic algebra and geometry"
  },
  {
    "name": "Physics",
    "description": "Mechanics, thermodynamics and optics"
  },
```

```
  {
    "name": "Chemistry",
    "description": "Organic and inorganic chemistry basics"
  }
]
```

ER diagram represents a simple **Student Enrollment System**. Here's a breakdown of each table and the relationships between them:

---

1. student

- **Fields:**
  - id (Primary Key)
  - name (Name of the student)
  - address_id (Foreign Key → address.id)
- **Associations:**
  - **One-to-One** with address (a student has one address)
  - **One-to-Many** with enrollment (a student can enroll in multiple courses)

---

2. address

- **Fields:**
  - id (Primary Key)
  - city
  - state

    - zip
- **Associations:**
    - **One-to-One** from student (**each student has one address**)

---

3. course

- **Fields:**
    - id (Primary Key)
    - title (Course name)
    - description
- **Associations:**
    - **One-to-Many** with enrollment (**a course can have many students enrolled**)

---

4. enrollment

- **Fields:**
    - id (Primary Key)
    - enrollment_date (When the student enrolled)
    - course_id (Foreign Key → course.id)
    - student_id (Foreign Key → student.id)
- **Associations:**
    - **Many-to-One** to student **(many enrollments for a student)**
    - **Many-to-One** to course **(many students per course)**

Association Summary

Entity A	Relationship	Entity B	Cardinality
student	→ address	1-to-1	Each student has 1 address
student	→	1-to-many	Each student can enroll in many

	enrollment		courses
course	→ enrollment	1-to-many	Each course can be taken by many students
enrollment	links	student + course	Acts as join table

Conceptual View

- A **Student** has an **Address**.
- A **Student** can **Enroll** in many **Courses**.
- Each **Enrollment** keeps track of which student enrolled in which course and when.
- The **Enrollment** table is a **bridge/join table** between student and course.