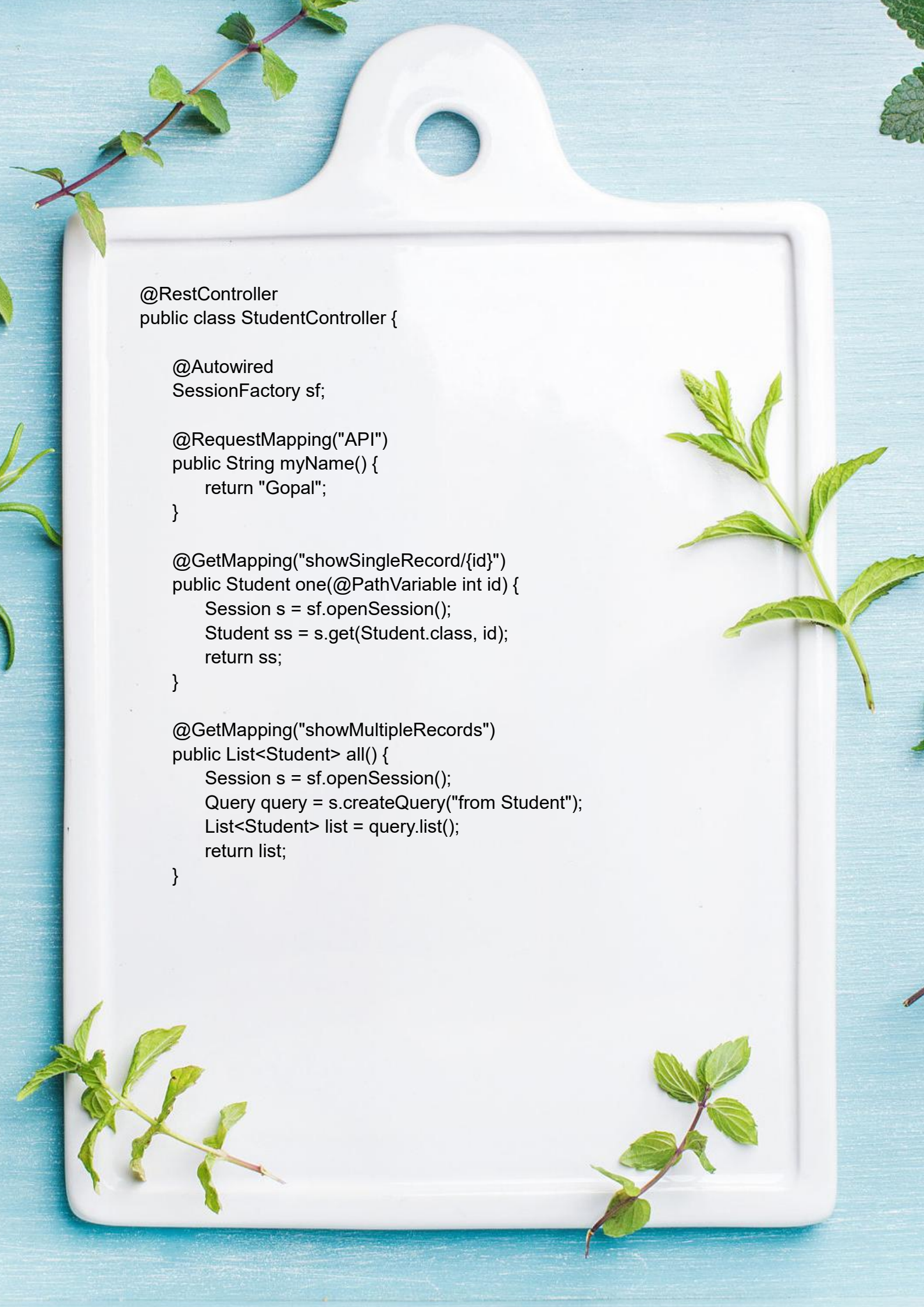


*** Permanent Data Store CRUD ***

*** Using Get, Post, Put, Delete and Patch ***

TheKiranAcademy
GopalSing

```
package com.Gopal;
import java.util.List;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.query.Query;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
```

```
@RestController
public class StudentController {

    @Autowired
    SessionFactory sf;

    @RequestMapping("API")
    public String myName() {
        return "Gopal";
    }

    @GetMapping("showSingleRecord/{id}")
    public Student one(@PathVariable int id) {
        Session s = sf.openSession();
        Student ss = s.get(Student.class, id);
        return ss;
    }

    @GetMapping("showMultipleRecords")
    public List<Student> all() {
        Session s = sf.openSession();
        Query query = s.createQuery("from Student");
        List<Student> list = query.list();
        return list;
    }
}
```



```
@PostMapping("insertSingleRecord")
public Student insert(@RequestBody Student student) {
    Session s = sf.openSession();
    Transaction t = s.beginTransaction();
    s.save(student);
    t.commit();
    return student;
}
```

```
@PostMapping("insertSingleRecordPath/{id}/{name}")
public Student insertAPI(@PathVariable int id, @PathVariable String name)
{
    Session s = sf.openSession();
    Transaction t = s.beginTransaction();
    Student ss = new Student(id, name);
    s.save(ss);
    t.commit();
    return ss;
}
```

```
@PostMapping("insertMultipleRecords")
public List<Student> multipleinsert(@RequestBody List<Student> list) {
    for (Student student : list) {
        Session ss = sf.openSession();
        Transaction tt = ss.beginTransaction();
        ss.save(student);
        tt.commit();
    }
    return list;
}
```



```
@PutMapping("updateSingleRecord")
public Student updateStudent(@RequestBody Student student) {
    Session ss = sf.openSession();
    Transaction tx = ss.beginTransaction();
    ss.update(student);
    System.out.println("Record Updated Successfully Done... " + student);
    tx.commit();
    return student;
}
```

```
@PutMapping("updateMultipleRecord")
public List<Student> multipleupdate(@RequestBody List<Student> list) {
    for (Student student : list) {
        Session ss = sf.openSession();
        Transaction tt = ss.beginTransaction();
        ss.update(student);
        tt.commit();
    }
    return list;
}
```



```
@PatchMapping("partialSingleFieldUpdate/{id}/{name}")
public Student partialSingleFieldUpdate(@PathVariable int id,
@PathVariable String name) {
    Session s = sf.openSession();
    Student student = s.get(Student.class, id);
    student.setName(name);
    Transaction tx = s.beginTransaction();
    s.update(student);
    tx.commit();
    return student;
}
```

```
@PatchMapping("partialMultipleFieldUpdate/{id}/{name}")
public Student partialMultipleFieldUpdate(@PathVariable int id,
@PathVariable String name, @PathVariable String city) {
    Session s = sf.openSession();
    Student student = s.get(Student.class, id);
    student.setName(name);
    //student.setCity(city);
    Transaction tx = s.beginTransaction();
    s.update(student);
    tx.commit();
    return student;
}
```



```
@DeleteMapping("deleteSingleRecord/{id}")
public int deleteStudent(@PathVariable int id) {
    Session ss = sf.openSession();
    Transaction tx = ss.beginTransaction();
    Student stud = ss.load(Student.class, id);
    ss.delete(stud);
    System.out.println("Record Deleted Successfully Done... " + id);
    tx.commit();
    return id;
}
```

```
@DeleteMapping("deleteMultipleRecord")
public String deleteAll() {
    Session s = sf.openSession();
    Transaction t = s.beginTransaction();
    Query query = s.createQuery("DELETE FROM Student");
    query.executeUpdate();
    t.commit();
    return "Deletes All Table Record's";
}
}
```

*** The Kiran Academy ***

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