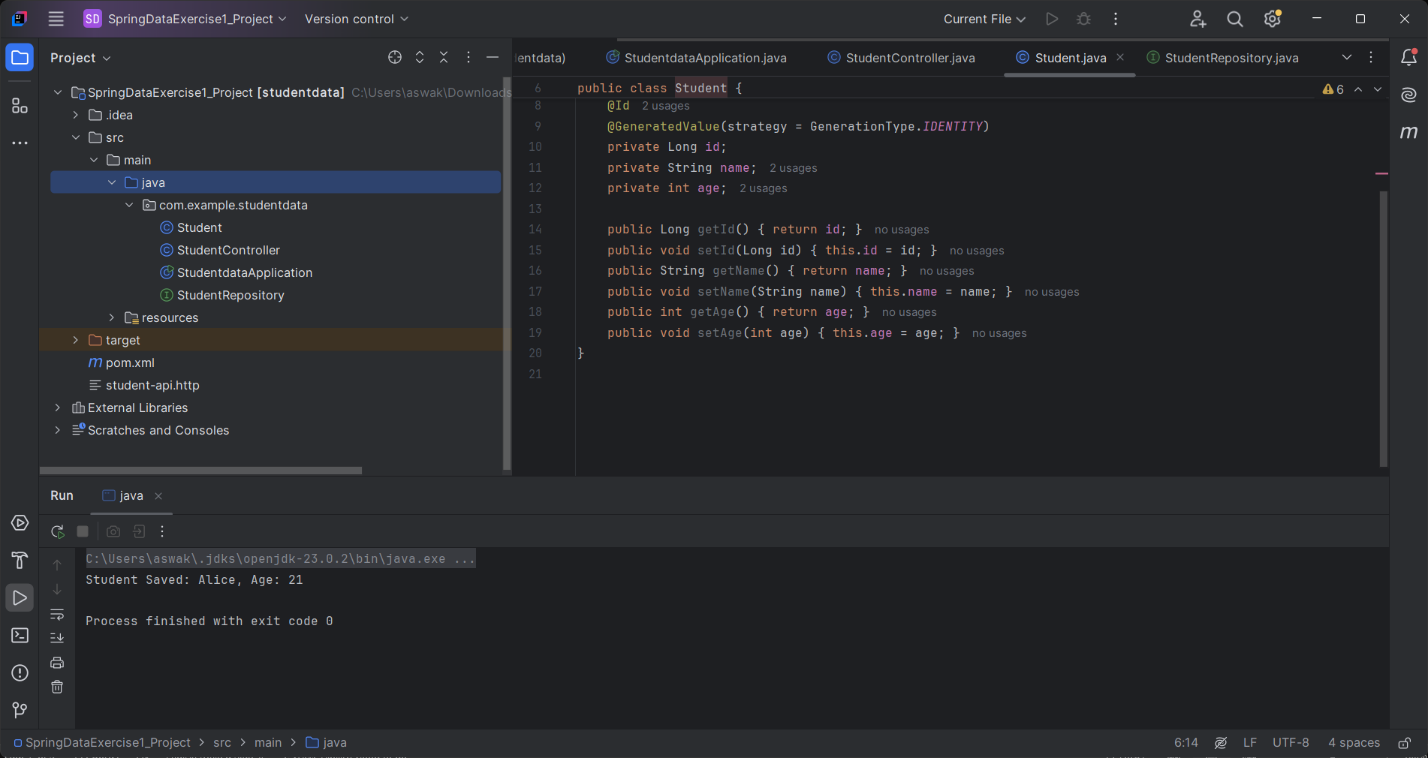
## Spring Data JPA - Exercise 1: Quick Example

pom.xml dependencies:  
<dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-data-jpa</artifactId>  
</dependency>  
<dependency>  
 <groupId>com.h2database</groupId>  
 <artifactId>h2</artifactId>  
 <scope>runtime</scope>  
</dependency>  
  
Entity - Student.java:  
@Entity  
public class Student {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private Long id;  
 private String name;  
 private int age;  
}  
  
Repository - StudentRepository.java:  
public interface StudentRepository extends JpaRepository<Student, Long> {}  
  
Controller - StudentController.java:  
@RestController  
@RequestMapping("/students")  
public class StudentController {  
 @Autowired  
 private StudentRepository studentRepository;  
  
 @PostMapping  
 public Student addStudent(@RequestBody Student student) {  
 return studentRepository.save(student);  
 }  
  
 @GetMapping  
 public List<Student> getAllStudents() {  
 return studentRepository.findAll();  
 }  
}  
  
application.properties:  
spring.datasource.url=jdbc:h2:mem:testdb  
spring.datasource.driverClassName=org.h2.Driver  
spring.datasource.username=sa  
spring.datasource.password=  
spring.jpa.hibernate.ddl-auto=update  
spring.h2.console.enabled=true



## Spring Data JPA - Exercise 2: Hibernate XML Configuration

hibernate.cfg.xml:  
<hibernate-configuration>  
 <session-factory>  
 <property name="hibernate.connection.driver\_class">org.h2.Driver</property>  
 <property name="hibernate.connection.url">jdbc:h2:mem:test</property>  
 <property name="hibernate.connection.username">sa</property>  
 <property name="hibernate.dialect">org.hibernate.dialect.H2Dialect</property>  
 <property name="hibernate.hbm2ddl.auto">update</property>  
 <mapping class="com.example.Student"/>  
 </session-factory>  
</hibernate-configuration>  
  
MainApp.java:  
public class MainApp {  
 public static void main(String[] args) {  
 SessionFactory factory = new Configuration().configure().buildSessionFactory();  
 Session session = factory.openSession();  
  
 Student student = new Student();  
 student.setName("John");  
 student.setAge(22);  
  
 session.beginTransaction();  
 session.save(student);  
 session.getTransaction().commit();  
 session.close();  
 }  
}

