# Application.java

* package com.cognizant.fsd.springbootassignment1;
* import org.springframework.boot.SpringApplication;
* import org.springframework.boot.autoconfigure.SpringBootApplication;
* import org.springframework.boot.builder.SpringApplicationBuilder;
* import org.springframework.boot.web.servlet.support.SpringBootServletInitializer;
* @SpringBootApplication
* public class Application extends SpringBootServletInitializer {
* @Override
* protected SpringApplicationBuilder configure(SpringApplicationBuilder application) {
* return application.sources(Application.class);
* }
* public static void main(String[] args) {
* SpringApplication.run(Application.class, args);
* }
* }

# SpringDataConfig.java

* package com.cognizant.fsd.springbootassignment1.config;
* import java.util.HashMap;
* import java.util.Properties;
* import javax.sql.DataSource;
* import org.springframework.beans.factory.annotation.Autowired;
* import org.springframework.context.annotation.Bean;
* import org.springframework.context.annotation.Configuration;
* import org.springframework.context.annotation.PropertySource;
* import org.springframework.core.env.Environment;
* import org.springframework.data.jpa.repository.config.EnableJpaRepositories;
* import org.springframework.jdbc.datasource.DriverManagerDataSource;
* import org.springframework.orm.jpa.JpaTransactionManager;
* import org.springframework.orm.jpa.LocalContainerEntityManagerFactoryBean;
* import org.springframework.orm.jpa.vendor.HibernateJpaVendorAdapter;
* import org.springframework.transaction.annotation.EnableTransactionManagement;
* @Configuration
* @EnableTransactionManagement
* @EnableJpaRepositories("com.cognizant.fsd.springbootassignment1.repository" )
* @PropertySource("classpath:mysql.properties")
* public class SpringDataConfig {
* private final String PROPERTY\_DRIVER = "jdbc.driverClassName";
* private final String PROPERTY\_URL = "jdbc.url";
* private final String PROPERTY\_USERNAME = "jdbc.user";
* private final String PROPERTY\_PASSWORD = "jdbc.pass";
* private final String PROPERTY\_SHOW\_SQL = "hibernate.show\_sql";
* private final String PROPERTY\_DIALECT = "hibernate.dialect";
* @Autowired
* Environment environment;
* @Bean
* public LocalContainerEntityManagerFactoryBean entityManagerFactory() {
* LocalContainerEntityManagerFactoryBean em
* = new LocalContainerEntityManagerFactoryBean();
* em.setDataSource(dataSource());
* em.setPackagesToScan(
* new String[] { "com.cognizant.fsd.springbootassignment1.model" });
* HibernateJpaVendorAdapter vendorAdapter = new HibernateJpaVendorAdapter();
* em.setJpaVendorAdapter(vendorAdapter);
* HashMap<String, Object> properties = new HashMap<>();
* properties.put("hibernate.hbm2ddl.auto",
* environment.getProperty("hibernate.hbm2ddl.auto"));
* properties.put("hibernate.dialect",
* environment.getProperty("hibernate.dialect"));
* properties.put("hibernate.show\_sql",
* true);
* em.setJpaPropertyMap(properties);
* return em;
* }
* @Bean
* DataSource dataSource() {
* DriverManagerDataSource ds = new DriverManagerDataSource();
* ds.setUrl(environment.getProperty(PROPERTY\_URL));
* ds.setUsername(environment.getProperty(PROPERTY\_USERNAME));
* ds.setPassword(environment.getProperty(PROPERTY\_PASSWORD));
* ds.setDriverClassName(environment.getProperty(PROPERTY\_DRIVER));
* return ds;
* }
* Properties hibernateProps() {
* Properties properties = new Properties();
* properties.setProperty(PROPERTY\_DIALECT, environment.getProperty(PROPERTY\_DIALECT));
* properties.setProperty(PROPERTY\_SHOW\_SQL, environment.getProperty(PROPERTY\_SHOW\_SQL));
* return properties;
* }
* @Bean
* JpaTransactionManager transactionManager() {
* JpaTransactionManager transactionManager = new JpaTransactionManager();
* transactionManager.setEntityManagerFactory(entityManagerFactory().getObject());
* return transactionManager;
* }
* }

# HomeController.java

* package com.cognizant.fsd.springbootassignment1.controller;
* import java.util.Set;
* import org.springframework.beans.factory.annotation.Autowired;
* import org.springframework.stereotype.Controller;
* import org.springframework.ui.Model;
* import org.springframework.web.bind.WebDataBinder;
* import org.springframework.web.bind.annotation.InitBinder;
* import org.springframework.web.bind.annotation.ModelAttribute;
* import org.springframework.web.bind.annotation.RequestMapping;
* import org.springframework.web.bind.annotation.RequestMethod;
* import org.springframework.web.bind.annotation.RequestParam;
* import com.cognizant.fsd.springbootassignment1.model.Book;
* import com.cognizant.fsd.springbootassignment1.model.Subject;
* import com.cognizant.fsd.springbootassignment1.service.BookService;
* import com.cognizant.fsd.springbootassignment1.service.SubjectService;
* @Controller
* public class HomeController {
* @Autowired
* private SubjectService subjectService;
* @Autowired
* private BookService bookService;
* @InitBinder
* public void dataBinding(WebDataBinder binder) {
* FsdCollectionEditor fsdCollectionEditor = new FsdCollectionEditor(Set.class, true);
* fsdCollectionEditor.setBookService(bookService);
* //binder.registerCustomEditor(Set.class, "references", fsdCollectionEditor);
* }
* @RequestMapping(path = { "/" }, method = RequestMethod.GET)
* public String index(Model model) {
* return "index";
* }
* @RequestMapping(value = "/addSubject", method = RequestMethod.GET)
* public String addSubject(Model model) {
* System.out.println("add Subject");
* Subject subject = new Subject();
* model.addAttribute("subject", subject);
* model.addAttribute("BOOK\_LIST", bookService.fetchAllBook());
* return "add-subject";
* }
* @RequestMapping(value = "/saveSubject", method = RequestMethod.POST)
* public String saveSubject(@ModelAttribute final Subject subject, Model model) {
* System.out.println("save Subject ");
* subject.getBookList().stream()
* .filter(bookId->bookId>0)
* .forEach(bookId->{
* subject.getReferences().add(bookService.searchBook(bookId));
* });
* model.addAttribute("ENTITY\_NAME", "Subject");
* subjectService.addSubject(subject);
* model.addAttribute("ENTITY\_ID", subject.getSubjectId());
* return "success";
* }
* @RequestMapping(value = "/addBook", method = RequestMethod.GET)
* public String addBook(Model model) {
* System.out.println("add Book");
* model.addAttribute("book", new Book());
* return "add-book";
* }
* @RequestMapping(value = "/saveBook", method = RequestMethod.POST)
* public String saveBook(@ModelAttribute Book book, Model model) {
* System.out.println("save book " + book.getPublishDate());
* model.addAttribute("ENTITY\_NAME", "Book");
* book = bookService.addBook(book);
* model.addAttribute("ENTITY\_ID", book.getBookId());
* return "success";
* }
* @RequestMapping(value = "/deleteBook", method = RequestMethod.GET)
* public String deleteBook(Model model) {
* System.out.println("delete Book");
* return "delete-book";
* }
* @RequestMapping(value = "/performDeleteBook", method = RequestMethod.GET)
* public String performDeleteBook(@RequestParam("bookId") String bookId, Model model) {
* System.out.println("delete Book " + bookId);
* boolean isSuccess = bookService.deleteBook(Long.parseLong(bookId));
* model.addAttribute("ENTITY\_NAME", "Book");
* model.addAttribute("ENTITY\_ID", bookId);
* model.addAttribute("isSuccess", isSuccess);
* return "delete-success";
* }
* @RequestMapping(value = "/deleteSubject", method = RequestMethod.GET)
* public String deleteSubject(Model model) {
* System.out.println("delete Book");
* return "delete-subject";
* }
* @RequestMapping(value = "/performDeleteSubject", method = RequestMethod.GET)
* public String performDeleteSubject(@RequestParam("subjectId") String subjectId, Model model) {
* System.out.println("delete subjectId " + subjectId);
* boolean isSuccess = subjectService.deleteSubject(Long.parseLong(subjectId));
* model.addAttribute("ENTITY\_NAME", "Subject");
* model.addAttribute("isSuccess", isSuccess);
* model.addAttribute("ENTITY\_ID", subjectId);
* return "delete-success";
* }
* @RequestMapping(value = "/search", method = RequestMethod.GET)
* public String search(Model model) {
* System.out.println("search Subject");
* return "search";
* }
* @RequestMapping(value = "/performSearch", method = RequestMethod.GET)
* public String performSearch(@RequestParam("id") String id, @RequestParam("entityName") String entityName,
* Model model) {
* System.out.println(entityName + "Perform Search" + id);
* Subject subject = null;
* Book book = null;
* String name = "";
* if (entityName.equals("subject")) {
* subject = subjectService.searchSubject(Long.parseLong(id));
* System.out.println("subject "+subject.getSubjectId());
* name = "subject";
* }
* if (entityName.equals("book")) {
* book = bookService.searchBook(Long.parseLong(id));
* name = "book";
* }
* model.addAttribute("ENTITY\_NAME", name);
* model.addAttribute("book", book);
* model.addAttribute("subject", subject);
* return "result";
* }
* @RequestMapping(value = "/exit", method = RequestMethod.GET)
* public String exit(Model model) {
* System.out.println("exit");
* return "exit";
* }
* }

# FsdCollectionEditor.java

* package com.cognizant.fsd.springbootassignment1.controller;
* import java.util.Collection;
* import org.springframework.beans.propertyeditors.CustomCollectionEditor;
* import com.cognizant.fsd.springbootassignment1.model.Book;
* import com.cognizant.fsd.springbootassignment1.service.BookService;
* public class FsdCollectionEditor extends CustomCollectionEditor {
* private BookService bookService;
* public FsdCollectionEditor(Class<? extends Collection> collectionType, boolean nullAsEmptyCollection) {
* super(collectionType, nullAsEmptyCollection);
* }
* protected Object convertElement(Object element) {
* System.out.println("element : "+element);
* Book book = bookService.searchBook((Long)element);
* return book;
* }
* public BookService getBookService() {
* return bookService;
* }
* public void setBookService(BookService bookService) {
* this.bookService = bookService;
* }
* }

# Book.java

* package com.cognizant.fsd.springbootassignment1.model;
* import java.io.Serializable;
* import java.time.LocalDate;
* import java.util.HashSet;
* import java.util.Set;
* import javax.persistence.CascadeType;
* import javax.persistence.Column;
* import javax.persistence.Entity;
* import javax.persistence.FetchType;
* import javax.persistence.GeneratedValue;
* import javax.persistence.GenerationType;
* import javax.persistence.Id;
* import javax.persistence.ManyToMany;
* import javax.persistence.Table;
* import javax.persistence.Transient;
* import org.springframework.format.annotation.DateTimeFormat;
* /\*\*
* \* @author Sudhir Kumar Thakur
* \*
* \*/
* @Entity
* @Table(name="book")
* public class Book implements Serializable{
* @Transient
* private static final long serialVersionUID = 3667779253735136971L;
* @Id
* //@GeneratedValue(strategy=GenerationType.AUTO)
* //private Long bid;
* @Column(name="BOOKID")
* private Long bookId;
* @Column(name="TITLE")
* private String title;
* @Column(name="PRICE")
* private Double price;
* @Column(name="VOLUME")
* private Integer volume;
* @Column(name="PUBLISHDATE")
* @DateTimeFormat(pattern = "yyyy-MM-dd")
* private LocalDate publishDate;
* @ManyToMany(mappedBy = "references",fetch=FetchType.EAGER)
* private Set<Subject> references = new HashSet<>();
* public Long getBookId() {
* return bookId;
* }
* public void setBookId(Long bookId) {
* this.bookId = bookId;
* }
* public String getTitle() {
* return title;
* }
* public void setTitle(String title) {
* this.title = title;
* }
* public Double getPrice() {
* return price;
* }
* public void setPrice(Double price) {
* this.price = price;
* }
* public Integer getVolume() {
* return volume;
* }
* public void setVolume(Integer volume) {
* this.volume = volume;
* }
* public LocalDate getPublishDate() {
* return publishDate;
* }
* public void setPublishDate(LocalDate publishDate) {
* this.publishDate = publishDate;
* }
* public Set<Subject> getReferences() {
* return references;
* }
* public void setReferences(Set<Subject> references) {
* this.references = references;
* }
* @Override
* public String toString() {
* return "Book [bookId=" + bookId + ", title=" + title + ", price=" + price + ", volume=" + volume
* + ", publishDate=" + publishDate + "]";
* }
* }

# Subject.java

* package com.cognizant.fsd.springbootassignment1.model;
* import java.io.Serializable;
* import java.util.HashSet;
* import java.util.List;
* import java.util.Set;
* import javax.persistence.CascadeType;
* import javax.persistence.Column;
* import javax.persistence.Entity;
* import javax.persistence.FetchType;
* import javax.persistence.GeneratedValue;
* import javax.persistence.GenerationType;
* import javax.persistence.Id;
* import javax.persistence.ManyToMany;
* import javax.persistence.Table;
* import javax.persistence.Transient;
* /\*\*
* \* @author Sudhir Kumar Thakur
* \*
* \*/
* @Entity
* @Table(name="subject")
* public class Subject implements Serializable{
* @Transient
* private static final long serialVersionId = 1L;
* @Id
* //@GeneratedValue(strategy=GenerationType.AUTO)
* //private Long sid;
* @Column(name="SUBJECTID")
* private Long subjectId;
* @Column(name="SUBTITLE")
* private String subTitle;
* @Column(name="DURATIONINHOURS")
* private Integer durationInHours;
* @ManyToMany(fetch=FetchType.EAGER)
* private Set<Book> references=new HashSet<Book>();
* @Transient
* private List<Long> bookList;
* public Long getSubjectId() {
* return subjectId;
* }
* public void setSubjectId(Long subjectId) {
* this.subjectId = subjectId;
* }
* public String getSubTitle() {
* return subTitle;
* }
* public void setSubTitle(String subTitle) {
* this.subTitle = subTitle;
* }
* public Integer getDurationInHours() {
* return durationInHours;
* }
* public void setDurationInHours(Integer durationInHours) {
* this.durationInHours = durationInHours;
* }
* public Set<Book> getReferences() {
* return references;
* }
* public void setReferences(Set<Book> references) {
* this.references = references;
* }
* @Override
* public String toString() {
* return "Subject [subjectId=" + subjectId + ", subTitle=" + subTitle + ", durationInHours=" + durationInHours
* + ", references=" + references + "]";
* }
* public List<Long> getBookList() {
* return bookList;
* }
* public void setBookList(List<Long> bookList) {
* this.bookList = bookList;
* }
* }

# BookService.java

* package com.cognizant.fsd.springbootassignment1.service;
* import java.util.List;
* import com.cognizant.fsd.springbootassignment1.model.Book;
* public interface BookService {
* public Book addBook(Book book);
* public boolean deleteBook(long bookId);
* public Book searchBook(long bookId);
* public List<Book> fetchAllBook();
* }

# BookServiceImpl.java

* package com.cognizant.fsd.springbootassignment1.service;
* import java.util.List;
* import org.springframework.beans.factory.annotation.Autowired;
* import org.springframework.stereotype.Service;
* import org.springframework.transaction.annotation.Transactional;
* import com.cognizant.fsd.springbootassignment1.model.Book;
* import com.cognizant.fsd.springbootassignment1.repository.BookRepository;
* @Service("bookService")
* @Transactional
* public class BookServiceImpl implements BookService {
* @Autowired
* private BookRepository bookRepository;
* public void setBookRepository(BookRepository bookRepository) {
* this.bookRepository = bookRepository;
* }
* @Override
* public Book addBook(Book book) {
* return bookRepository.save(book);
* }
* @Override
* public boolean deleteBook(long bookId) {
* bookRepository.deleteById(bookId);
* return true;
* }
* @Override
* public Book searchBook(long bookId) {
* return bookRepository.findById(bookId).get();
* }
* @Override
* public List<Book> fetchAllBook() {
* return (List<Book>) bookRepository.findAll();
* }
* }

# SubjectService.java

* package com.cognizant.fsd.springbootassignment1.service;
* import java.util.List;
* import com.cognizant.fsd.springbootassignment1.model.Subject;
* public interface SubjectService {
* public Subject addSubject(Subject subject);
* public boolean deleteSubject(long subjectId);
* public Subject searchSubject(long subjectId);
* public List<Subject> fetchAllSubject();
* }

# SubjectServiceImpl.java

* package com.cognizant.fsd.springbootassignment1.service;
* import java.util.List;
* import org.springframework.beans.factory.annotation.Autowired;
* import org.springframework.stereotype.Service;
* import org.springframework.transaction.annotation.Transactional;
* import com.cognizant.fsd.springbootassignment1.model.Subject;
* import com.cognizant.fsd.springbootassignment1.repository.SubjectRepository;
* @Service("subjectService")
* @Transactional
* public class SubjectServiceImpl implements SubjectService{
* @Autowired
* private SubjectRepository subjectRepository;
* public void setSubjectRepository(SubjectRepository subjectRepository) {
* this.subjectRepository = subjectRepository;
* }
* @Override
* public Subject addSubject(Subject subject) {
* return subjectRepository.save(subject);
* }
* @Override
* public boolean deleteSubject(long subjectId) {
* subjectRepository.deleteById(subjectId);
* return true;
* }
* @Override
* public Subject searchSubject(long subjectId) {
* return subjectRepository.findById(subjectId).get();
* }
* @Override
* public List<Subject> fetchAllSubject() {
* return (List<Subject>) subjectRepository.findAll();
* }
* }

# AbstractDao.java

* package com.cognizant.fsd.springbootassignment1.repository;
* import org.hibernate.Session;
* import org.hibernate.SessionFactory;
* import org.springframework.beans.factory.annotation.Autowired;
* public abstract class AbstractDao {
* @Autowired
* private SessionFactory sessionFactory;
* protected Session getSession() {
* return sessionFactory.getCurrentSession();
* }
* public void persist(Object entity) {
* getSession().saveOrUpdate(entity);
* }
* public void delete(Object entity) {
* getSession().delete(entity);
* }
* }

# BookRepository.java

* package com.cognizant.fsd.springbootassignment1.repository;
* import org.springframework.data.repository.CrudRepository;
* import com.cognizant.fsd.springbootassignment1.model.Book;
* public interface BookRepository extends CrudRepository<Book, Long>{
* }

# SubjectRepository.java

* package com.cognizant.fsd.springbootassignment1.repository;
* import org.springframework.data.repository.CrudRepository;
* import com.cognizant.fsd.springbootassignment1.model.Subject;
* public interface SubjectRepository extends CrudRepository<Subject, Long>{
* }

# add-book.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>
* <%@ taglib prefix=*"form"* uri=*"http://www.springframework.org/tags/form"*%>
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <table style="width: *100%*">
* <form:form method=*"POST"* modelAttribute=*"book"* action=*"*${pageContext.request.contextPath}*/saveBook"*>
* <tr>
* <td><form:label path=*"bookId"*>Book Id :</form:label></td>
* <td><form:input path=*"bookId"* /></td>
* </tr>
* <tr>
* <td><form:label path=*"title"*>Book Title :</form:label></td>
* <td><form:input path=*"title"* /></td>
* </tr>
* <tr>
* <td><form:label path=*"price"*>Book Price :</form:label></td>
* <td><form:input path=*"price"* /></td>
* </tr>
* <tr>
* <td><form:label path=*"volume"*>Book Volume :</form:label></td>
* <td><form:input path=*"volume"* /></td>
* </tr>
* <tr>
* <td><form:label path=*"publishDate"*>Publish Date (yyyy-MM-dd):</form:label></td>
* <td><form:input path=*"publishDate"* /></td>
* </tr>
* <tr>
* <td colspan=*"2"*><input type=*"submit"* value=*"save"*/></td>
* </tr>
* </form:form>
* </table>
* </body>
* </html>

# add-subject.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>
* <%@ taglib prefix=*"form"* uri=*"http://www.springframework.org/tags/form"* %>
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"* %>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <table style="width:*100%*">
* <form:form method=*"POST"* modelAttribute=*"subject"* action=*"*${pageContext.request.contextPath}*/saveSubject"* >
* <tr>
* <td><form:label path=*"subjectId"*>Subject Id :</form:label></td>
* <td><form:input path=*"subjectId"*/></td>
* </tr>
* <tr>
* <td><form:label path=*"subTitle"*>Subject Title :</form:label></td>
* <td><form:input path=*"subTitle"*/></td>
* </tr>
* <tr>
* <td><form:label path=*"durationInHours"*>Duration In Hours :</form:label></td>
* <td><form:input path=*"durationInHours"*/></td>
* </tr>
* <tr>
* <td><form:label path=*"references"*>Book References :</form:label></td>
* <td>
* <form:select path=*"bookList"*>
* <form:option value=*"0"* label=*"----- Select -----"*/>
* <form:options items=*"*${BOOK\_LIST}*"* itemLabel=*"title"* itemValue=*"bookId"*/>
* </form:select>
* </td>
* </tr>
* <tr>
* <td colspan=*"2"*><input type=*"submit"* value=*"save"*/></td>
* </tr>
* </form:form>
* </table>
* </body>
* </html>

# delete-book.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>enter the book id to delete :</h1>
* <form method=*"get"* action=*"*${pageContext.request.contextPath}*/performDeleteBook"*>
* <input id=*"bookId"* name=*"bookId"*/>
* <input type=*"submit"* value=*"delete"*>
* </form>
* </body>
* </html>

# delete-subject.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>enter the subject id to delete :</h1>
* <form method=*"get"* action=*"*${pageContext.request.contextPath}*/performDeleteSubject"*>
* <input id=*"subjectId"* name=*"subjectId"*/>
* <input type=*"submit"* value=*"delete"*>
* </form>
* </body>
* </html>

# delete-success.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>The ${ENTITY\_NAME} with id (${ENTITY\_ID}) has been deleted successfully</h1>
* </body>
* </html>

# error.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>Something went wrong, Please try again</h1>
* </body>
* </html>

# exit.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>Thanks for using this application</h1>
* </body>
* </html>

# index.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>
* <%@ taglib prefix=*"form"* uri=*"http://www.springframework.org/tags/form"* %>
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"* %>
* <!DOCTYPE html>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Spring 4 MVC - Hello World Example</title>
* </head>
* <body>
* <h1>Welcome to Spring Boot with Spring Data(JPA)</h1>
* <a href=*"*<spring:url value=*"/addSubject"*/>*"*>Add Subject</a><br/>
* <a href=*"*<spring:url value=*"/addBook"*/>*"*>Add Book</a><br/>
* <a href=*"*<spring:url value=*"/deleteSubject"*/>*"*>Delete Subject</a><br/>
* <a href=*"*<spring:url value=*"/deleteBook"*/>*"*>Delete Book</a><br/>
* <a href=*"*<spring:url value=*"/search"*/>*"*>Search</a><br/>
* <a href=*"*<spring:url value=*"/exit"*/>*"*>Exit</a><br/>
* </body>
* </html>

# result.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a>
* <br />
* <hr />
* <c:choose>
* <c:when test=*"*${ENTITY\_NAME **eq** 'subject'}*"*>
* <table>
* <tr>
* <td>Subject Id :</td>
* <td>${subject.subjectId}</td>
* </tr>
* <tr>
* <td>Subject Title :</td>
* <td>${subject.subTitle}</td>
* </tr>
* <tr>
* <td>Duration In Hours :</td>
* <td>${subject.durationInHours}</td>
* </tr>
* <tr>
* <td>Reference :</td>
* <td>
* <ol>
* <c:forEach items=*"*${subject.references}*"* var=*"book"* varStatus=*"counter"*>
* <li>${book.title} <b>(${book.bookId})</b></li>
* </c:forEach>
* </ol>
* </td>
* </tr>
* </table>
* </c:when>
* <c:when test=*"*${ENTITY\_NAME **eq** 'book'}*"*>
* <table style="width: *100%*">
* <tr>
* <td>Book Id :</td>
* <td>${book.bookId}</td>
* </tr>
* <tr>
* <td>Book Title :</td>
* <td>${book.title}</td>
* </tr>
* <tr>
* <td>Price :</td>
* <td>${book.price}</td>
* </tr>
* <tr>
* <td>Volume :</td>
* <td>${book.volume}</td>
* </tr>
* <tr>
* <td>Publish Date (yyyy-MM-dd) :</td>
* <td>${book.publishDate}</td>
* </tr>
* </table>
* </c:when>
* <c:otherwise>
* </c:otherwise>
* </c:choose>
* </body>
* </html>

# success.jsp

* <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*
* pageEncoding=*"ISO-8859-1"*%>
* <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
* <%@ taglib prefix=*"spring"* uri=*"http://www.springframework.org/tags"*%>
* <html>
* <head>
* <meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>
* <title>Insert title here</title>
* </head>
* <body>
* <a href=*"*<spring:url value=*"/"*/>*"*>home</a><br/>
* <hr/>
* <h1>The ${ENTITY\_NAME} with id (${ENTITY\_ID}) has been saved successfully</h1>
* </body>
* </html>

# mysql.properties

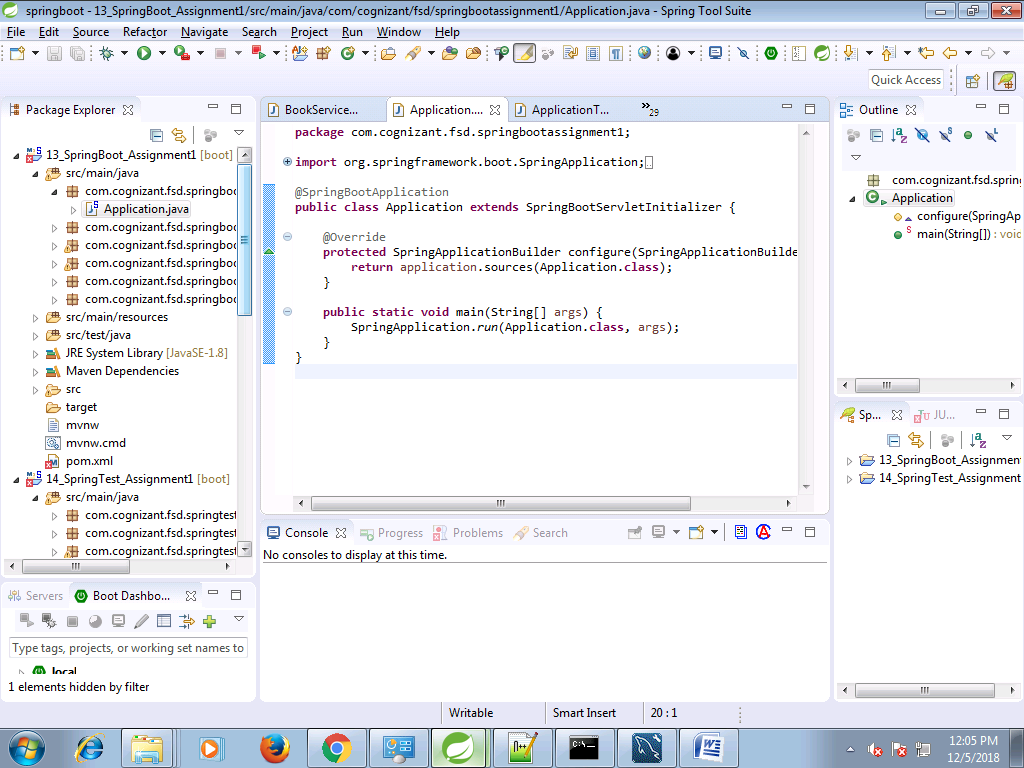
* # jdbc
* jdbc.driverClassName=com.mysql.jdbc.Driver
* jdbc.url=jdbc:mysql://localhost:3306/spring\_assignment\_13?createDatabaseIfNotExist=true
* jdbc.user=root
* jdbc.pass=pass@word1
* # hibernate
* hibernate.dialect=org.hibernate.dialect.MySQL5InnoDBDialect
* hibernate.show\_sql=true
* hibernate.hbm2ddl.auto=update
* **application.properties**
* server.port=9000
* spring.mvc.view.prefix=/WEB-INF/views/
* spring.mvc.view.suffix=.jsp

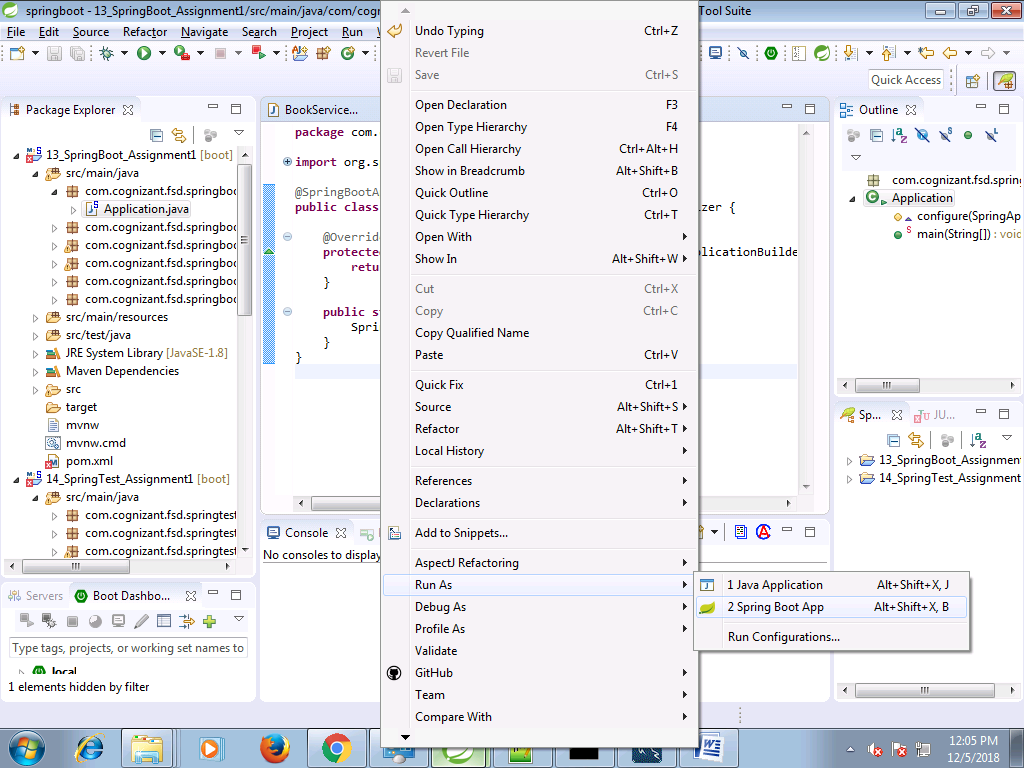
# pom.xml

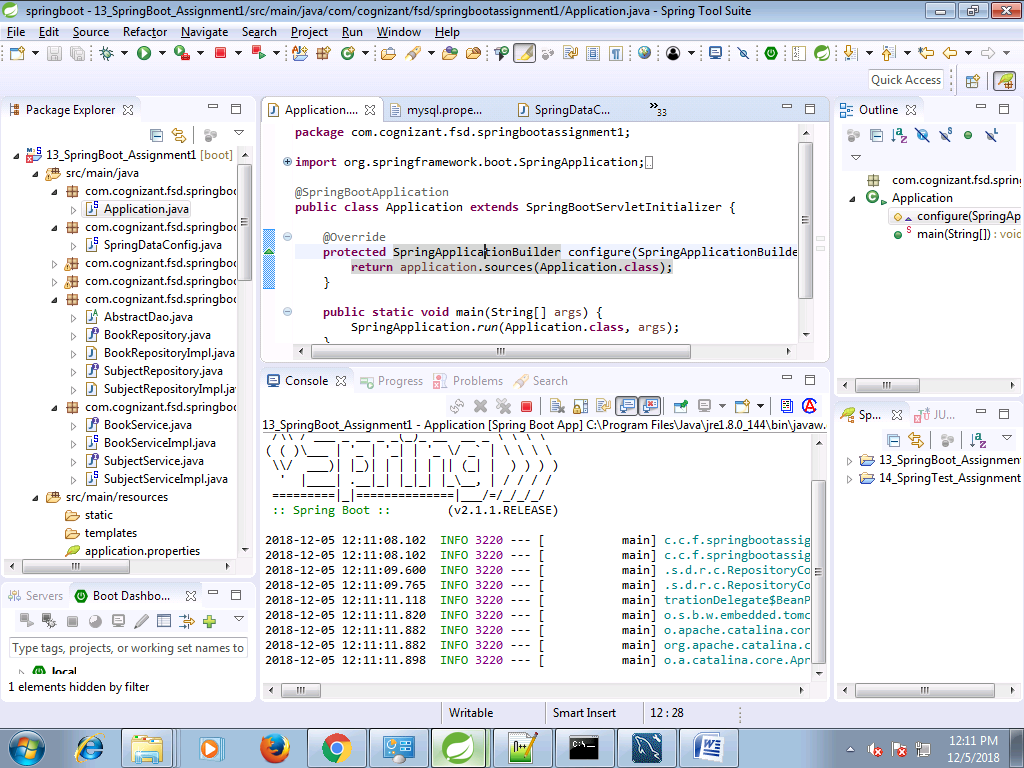
* <?xml version=*"1.0"* encoding=*"UTF-8"*?>
* <project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*
* xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"*>
* <modelVersion>4.0.0</modelVersion>
* <groupId>com.cognizant.fsd</groupId>
* <artifactId>13\_SpringBoot\_Assignment1</artifactId>
* <version>0.0.1-SNAPSHOT</version>
* <packaging>jar</packaging>
* <name>13\_SpringBoot\_Assignment1</name>
* <description>Demo project for Spring Boot</description>
* <parent>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-parent</artifactId>
* <version>2.1.1.RELEASE</version>
* <relativePath /> <!-- lookup parent from repository -->
* </parent>
* <properties>
* <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
* <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
* <java.version>1.8</java.version>
* </properties>
* <dependencies>
* <dependency>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-actuator</artifactId>
* </dependency>
* <dependency>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-data-jpa</artifactId>
* </dependency>
* <!-- <dependency>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-security</artifactId>
* </dependency> -->
* <dependency>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-web</artifactId>
* </dependency>
* <dependency>
* <groupId>org.apache.tomcat.embed</groupId>
* <artifactId>tomcat-embed-jasper</artifactId>
* <scope>provided</scope>
* </dependency>
* <!-- JSTL -->
* <dependency>
* <groupId>javax.servlet</groupId>
* <artifactId>jstl</artifactId>
* </dependency>

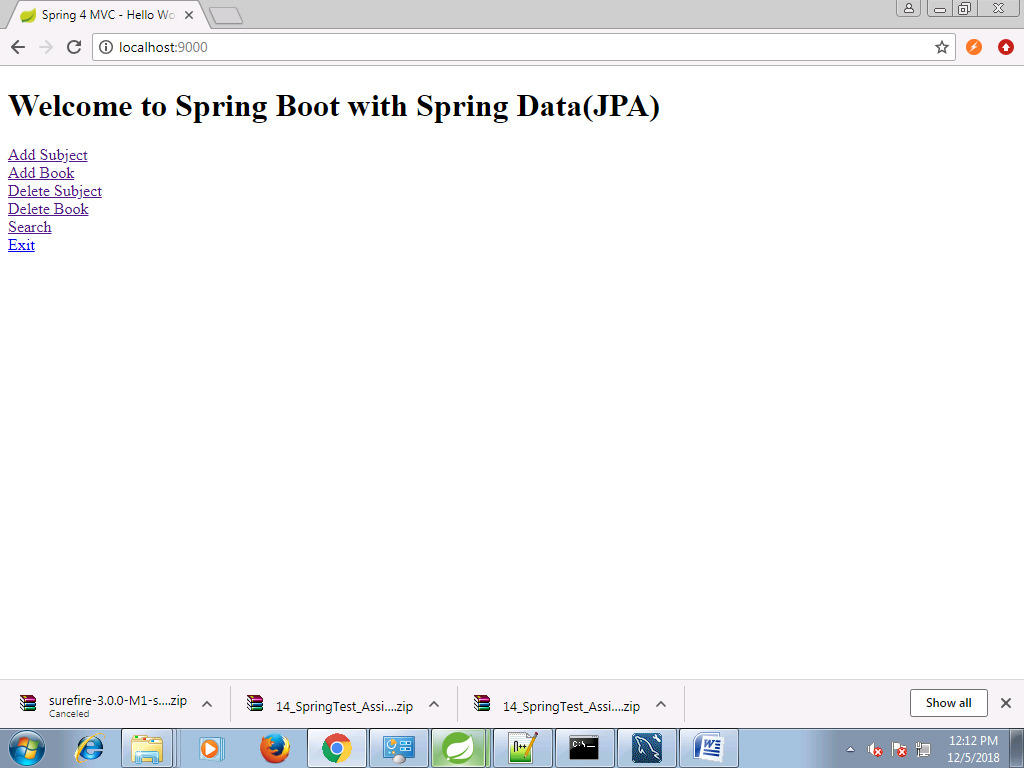
* <dependency>
* <groupId>com.h2database</groupId>
* <artifactId>h2</artifactId>
* <scope>runtime</scope>
* </dependency>
* <dependency>
* <groupId>mysql</groupId>
* <artifactId>mysql-connector-java</artifactId>
* <scope>runtime</scope>
* </dependency>
* <dependency>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-starter-test</artifactId>
* <scope>test</scope>
* </dependency>
* <dependency>
* <groupId>org.springframework.security</groupId>
* <artifactId>spring-security-test</artifactId>
* <scope>test</scope>
* </dependency>
* </dependencies>
* <build>
* <plugins>
* <plugin>
* <groupId>org.springframework.boot</groupId>
* <artifactId>spring-boot-maven-plugin</artifactId>
* </plugin>
* </plugins>
* </build>
* </project>

**Screenshots**

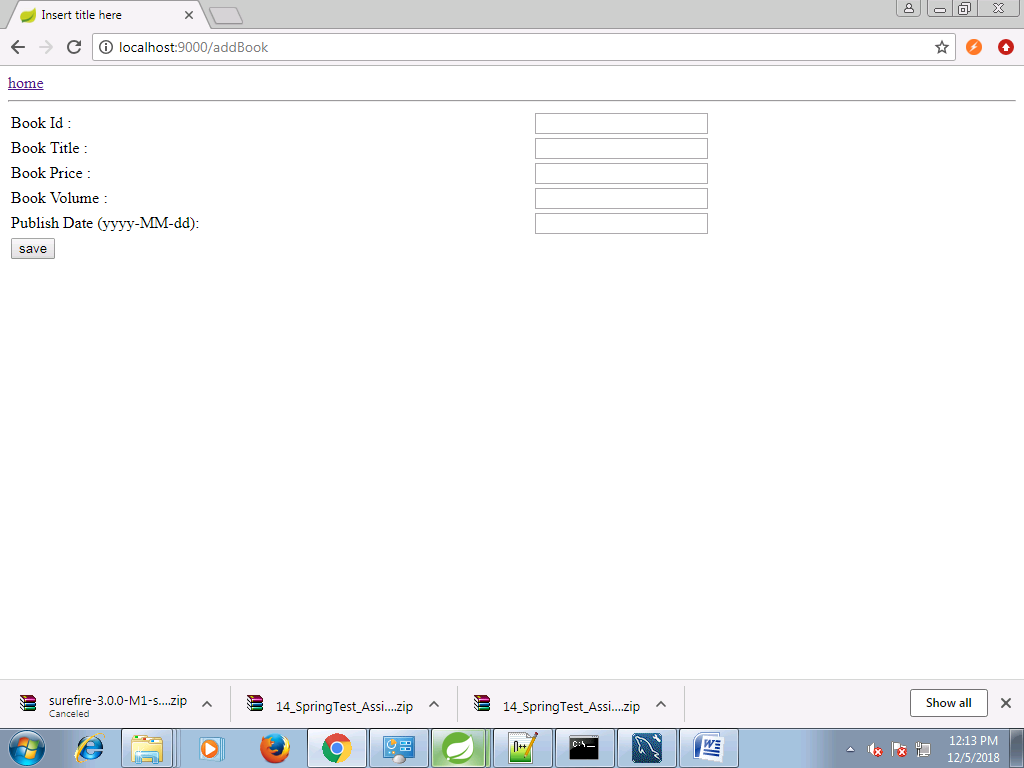


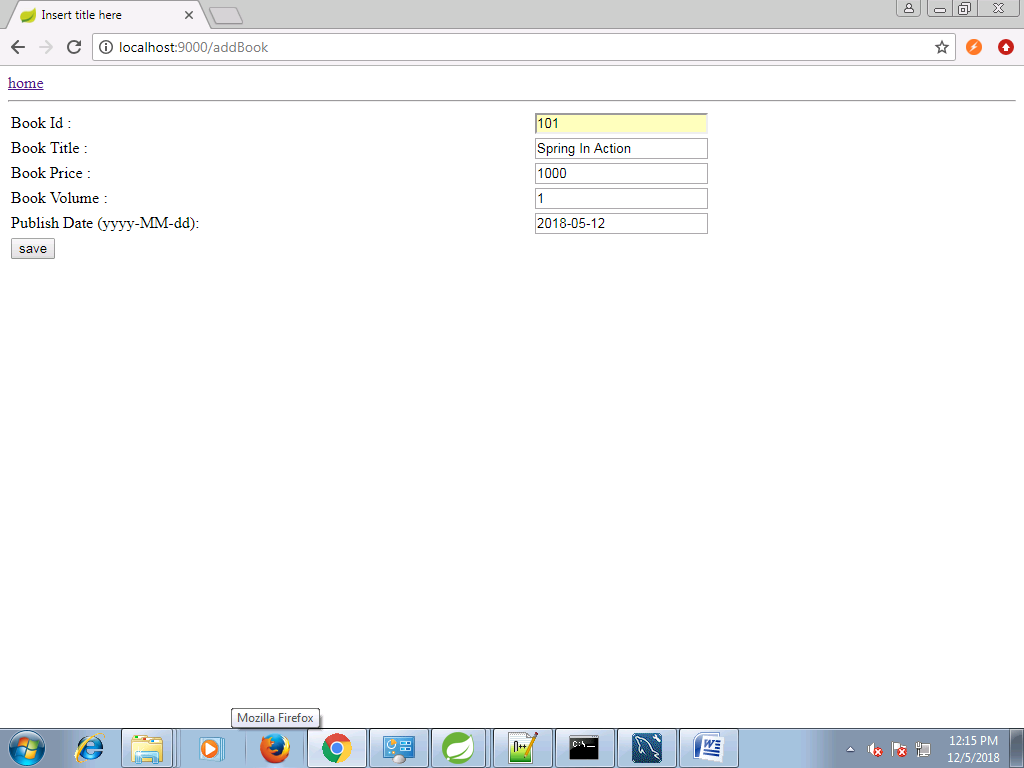


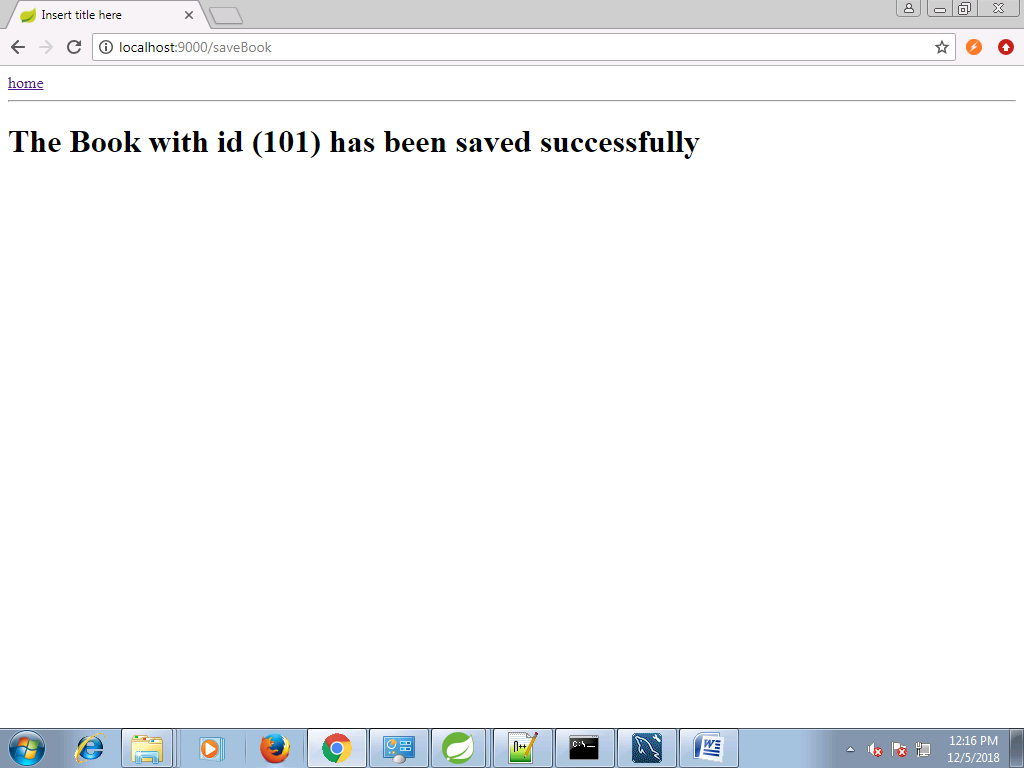


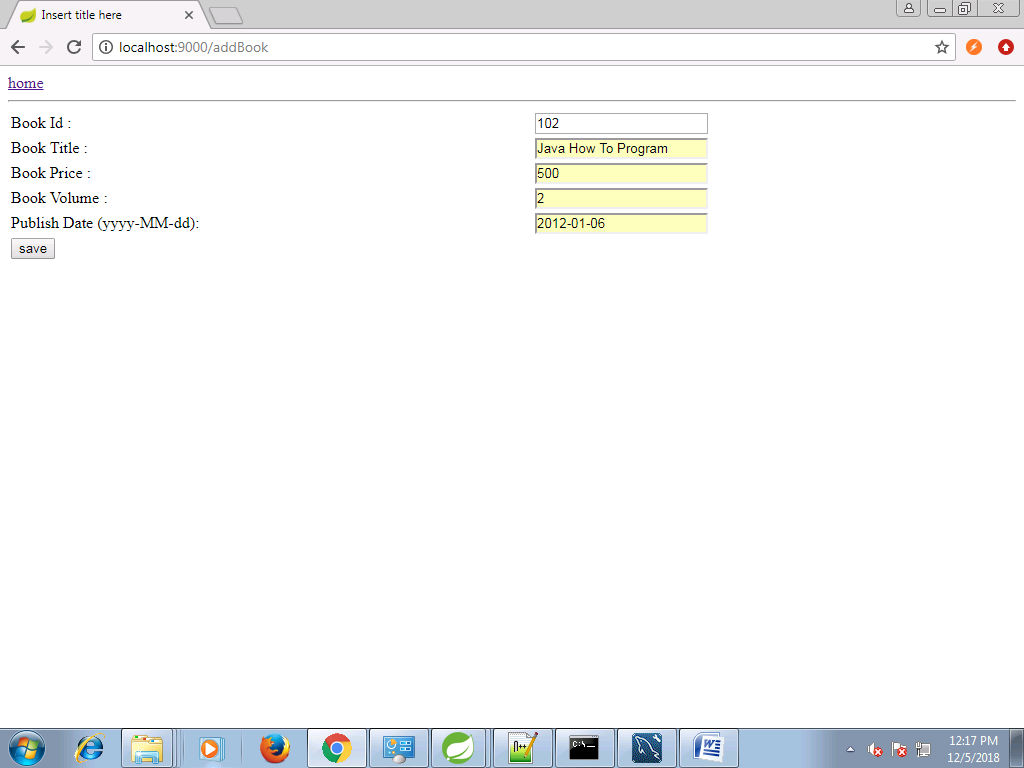


[Add Book](http://localhost:9000/addBook)



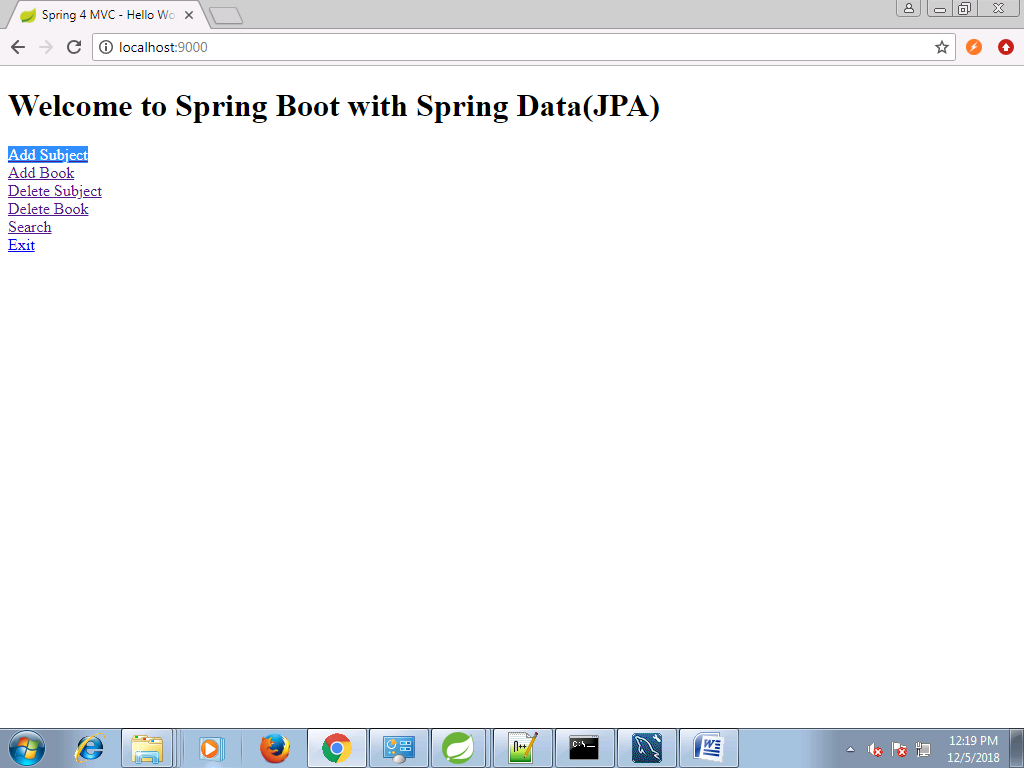


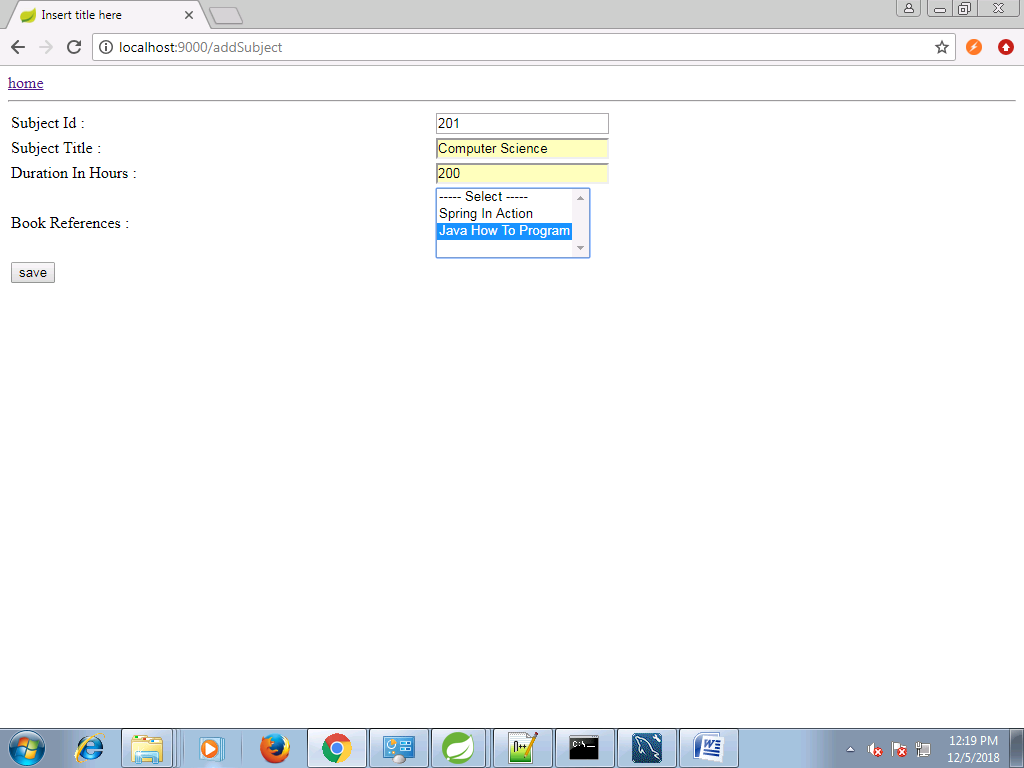


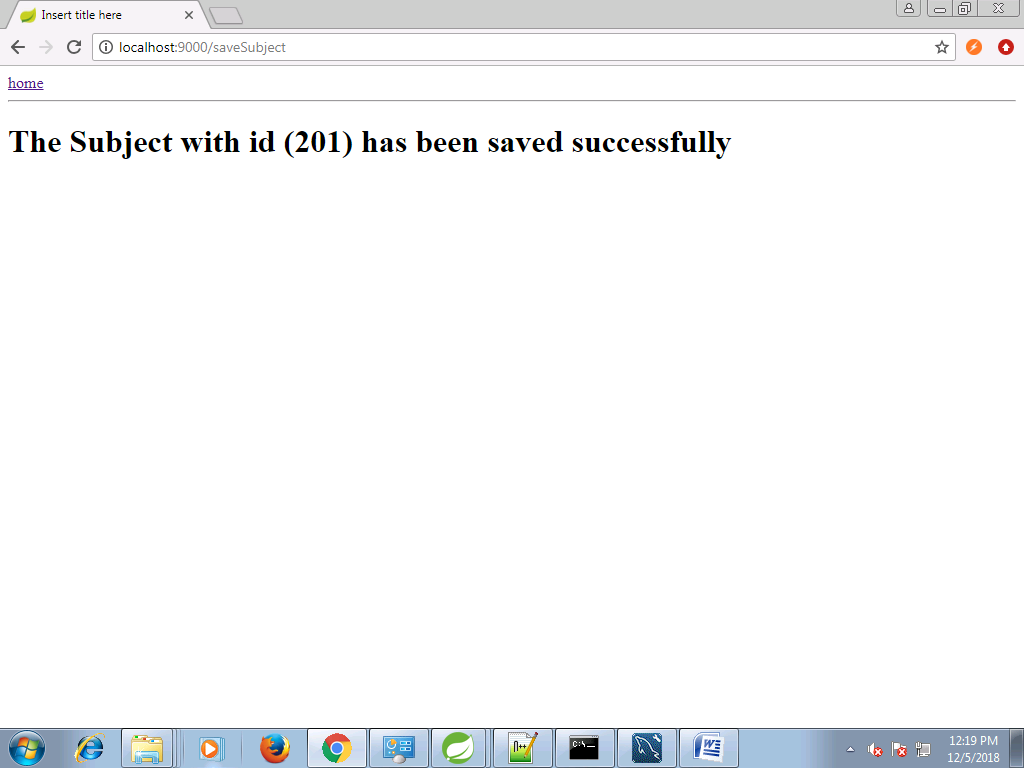


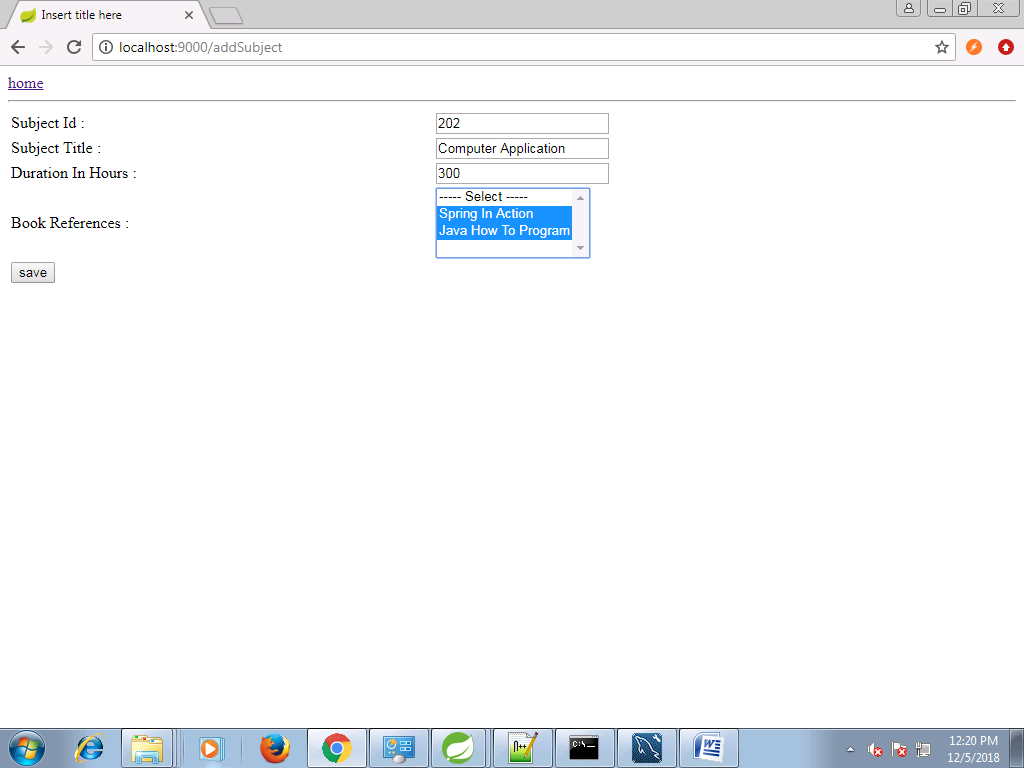


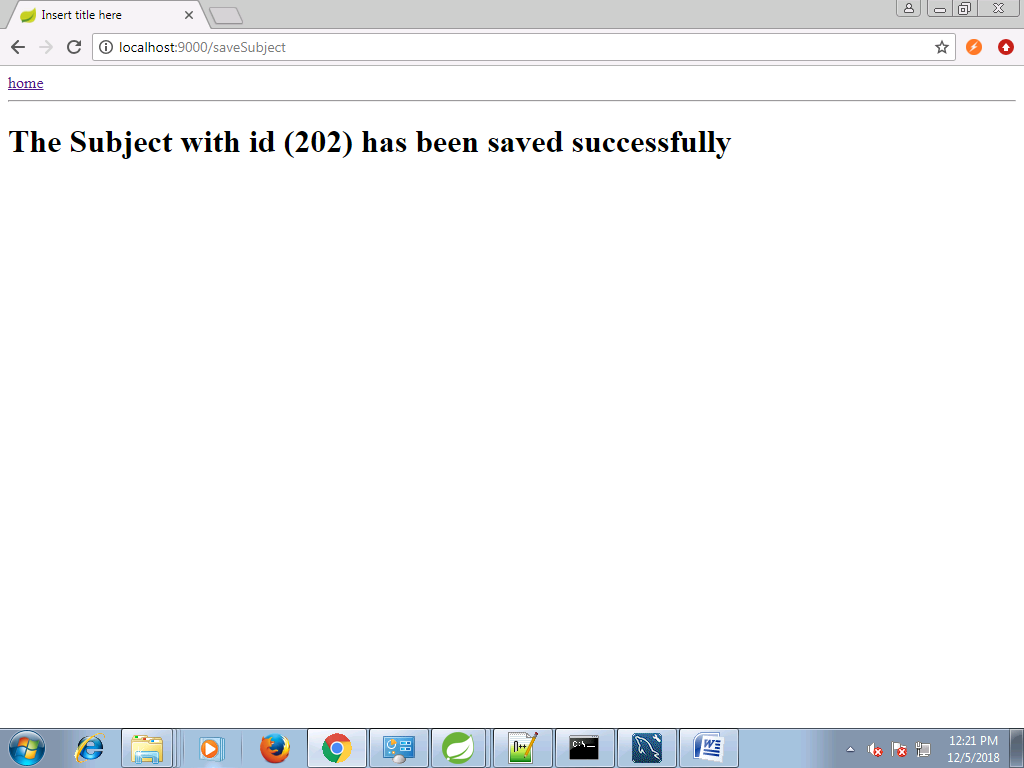
[Add Subject](http://localhost:9000/addSubject)

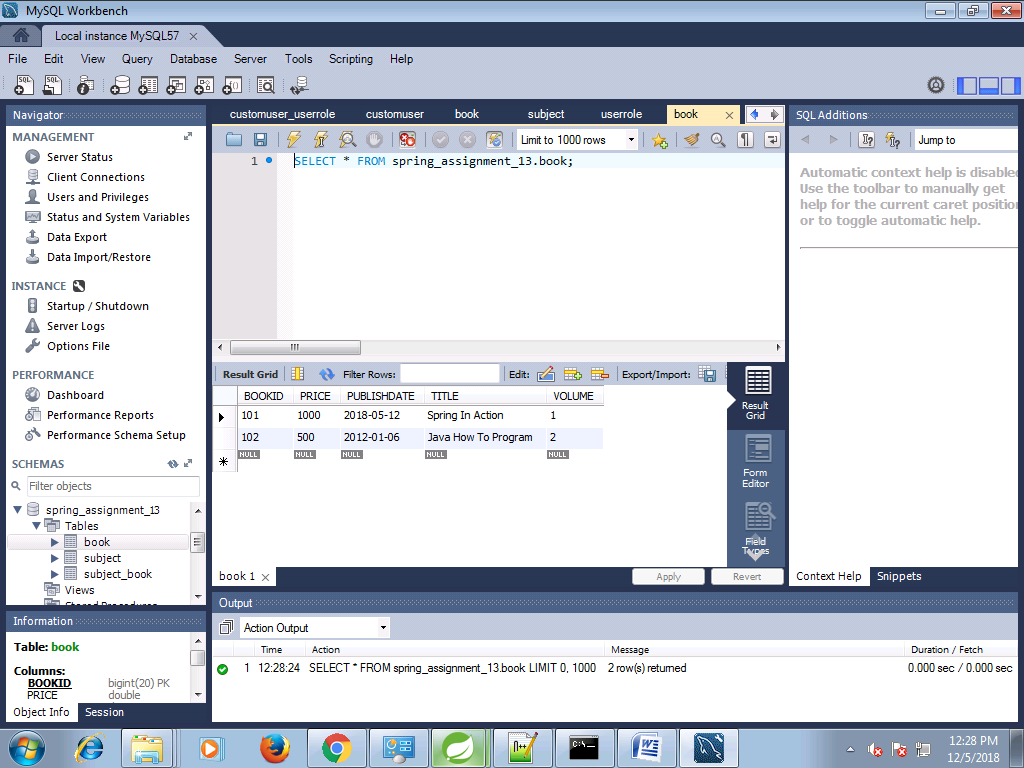


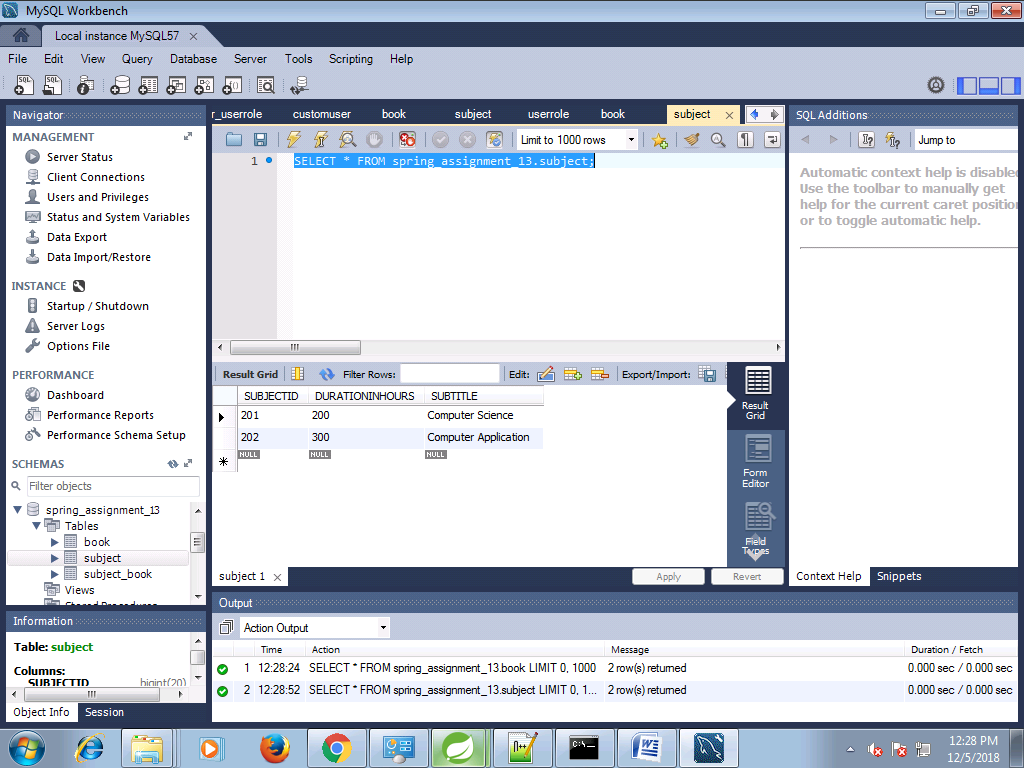


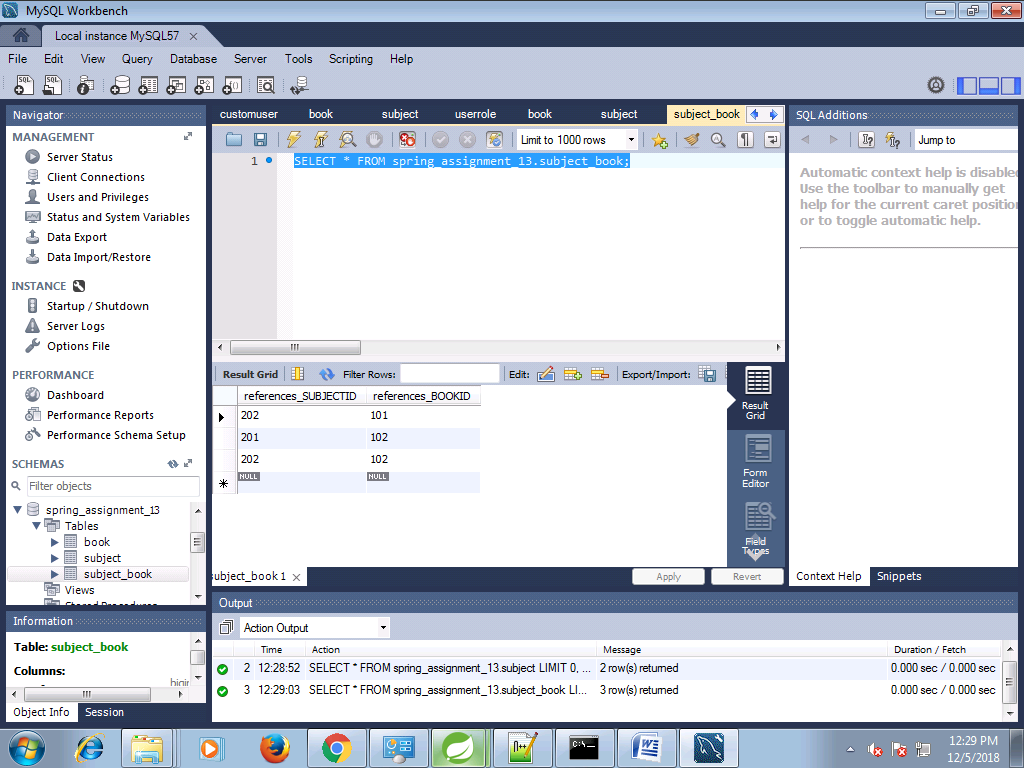


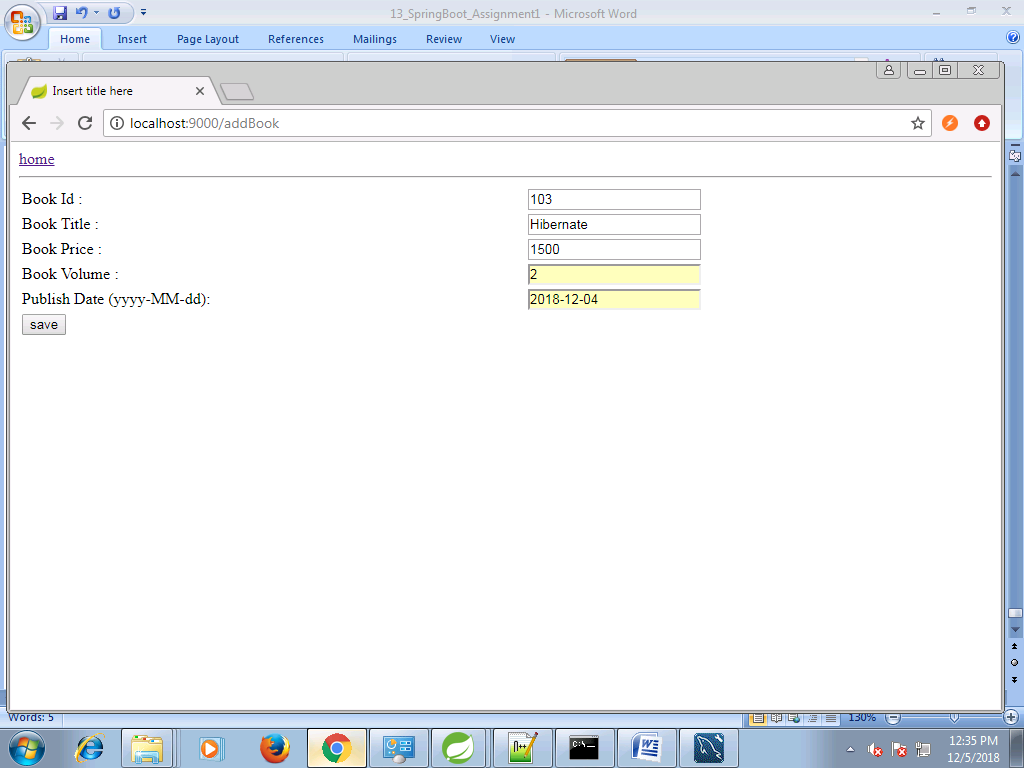


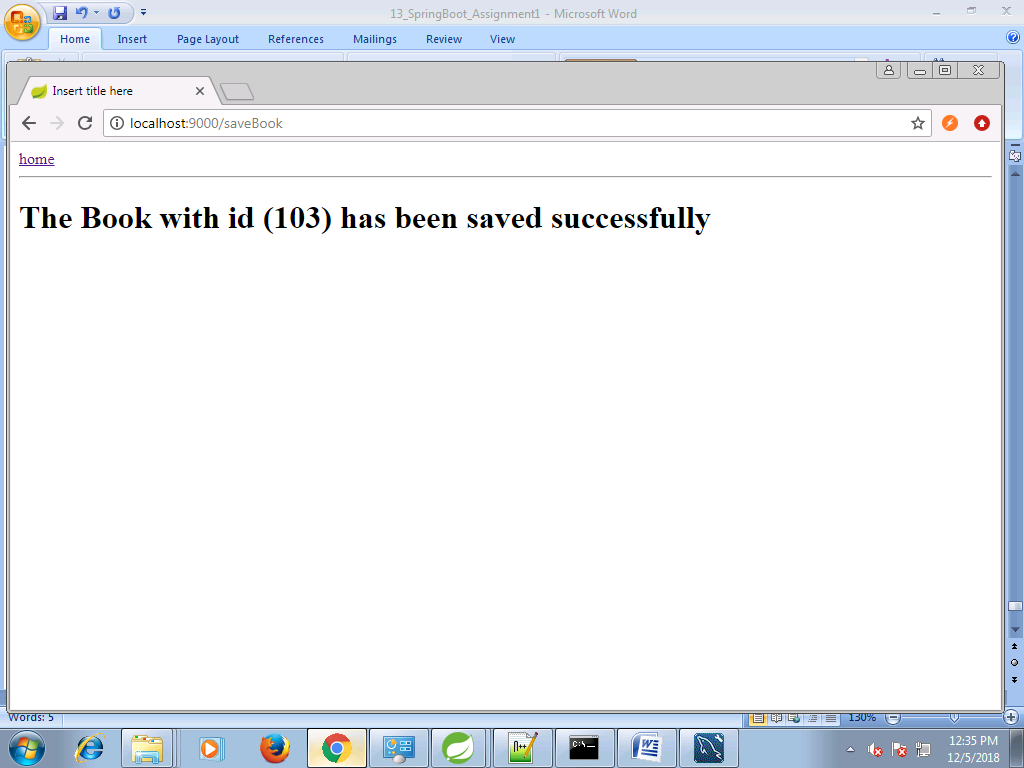


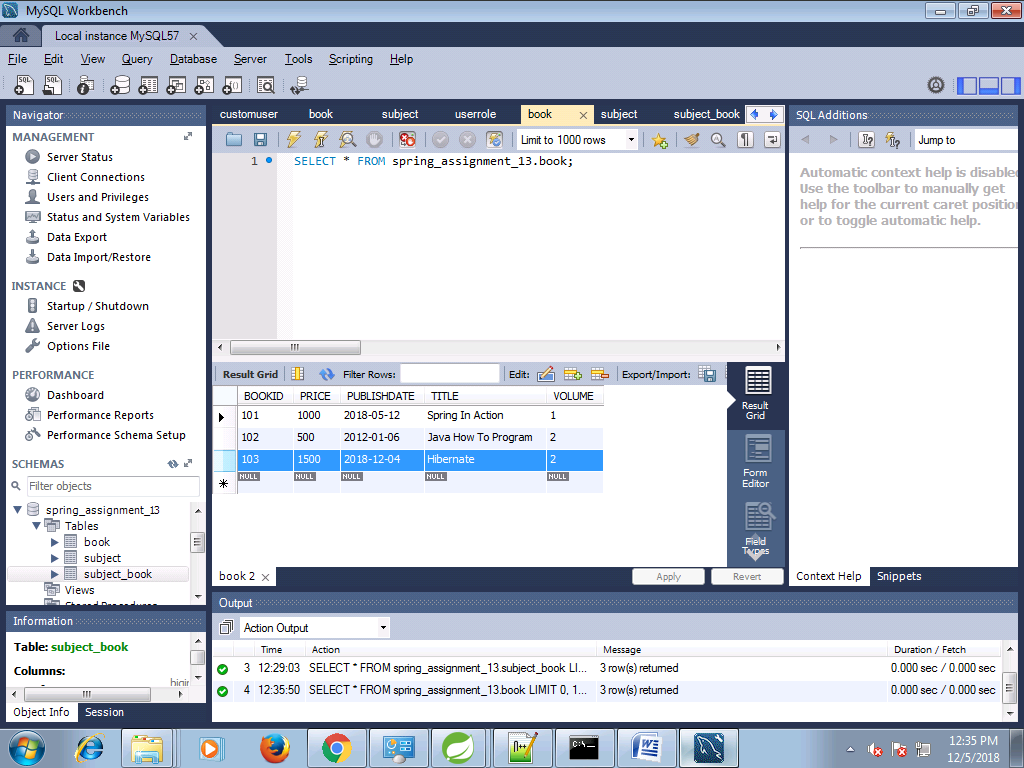




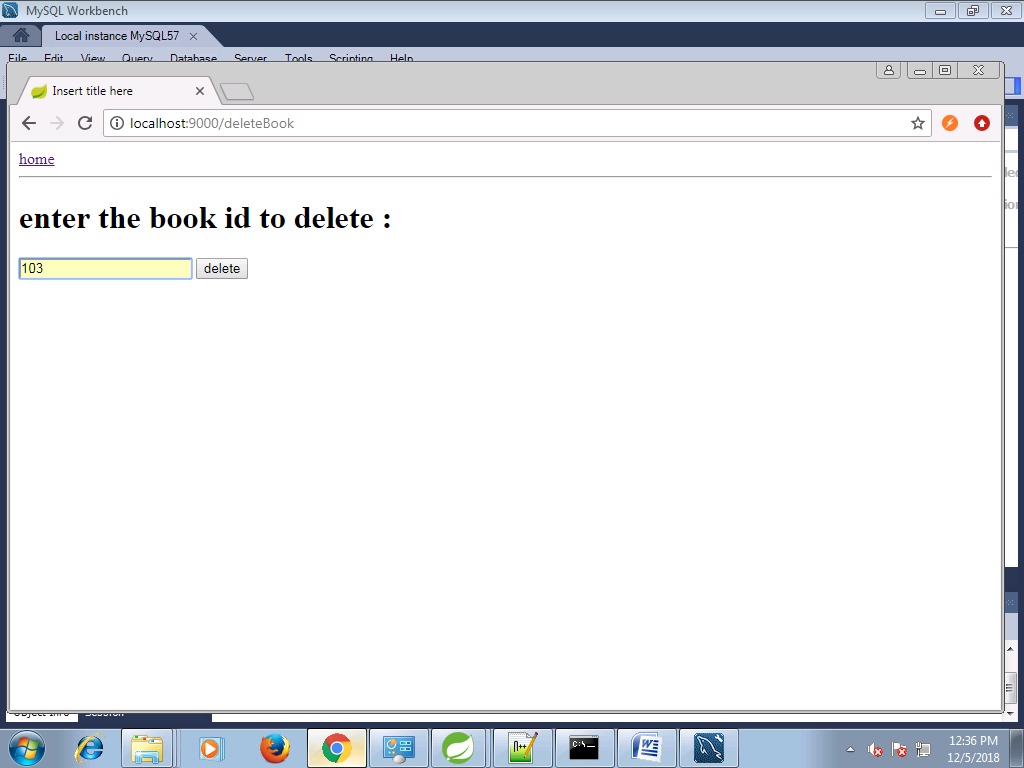


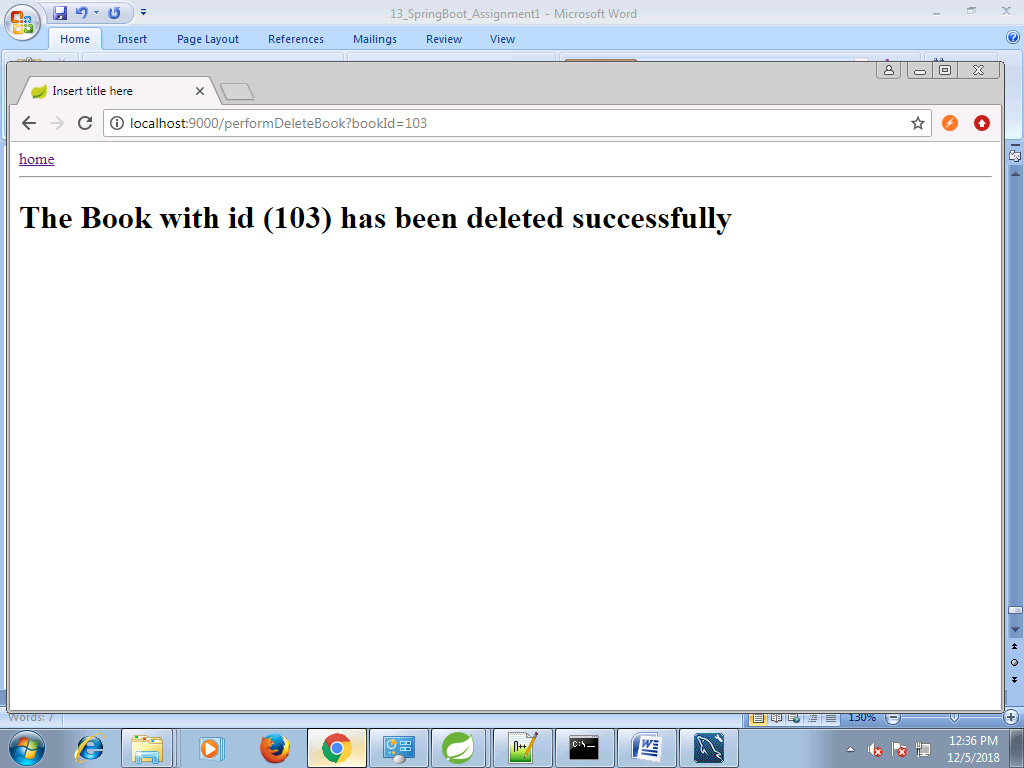


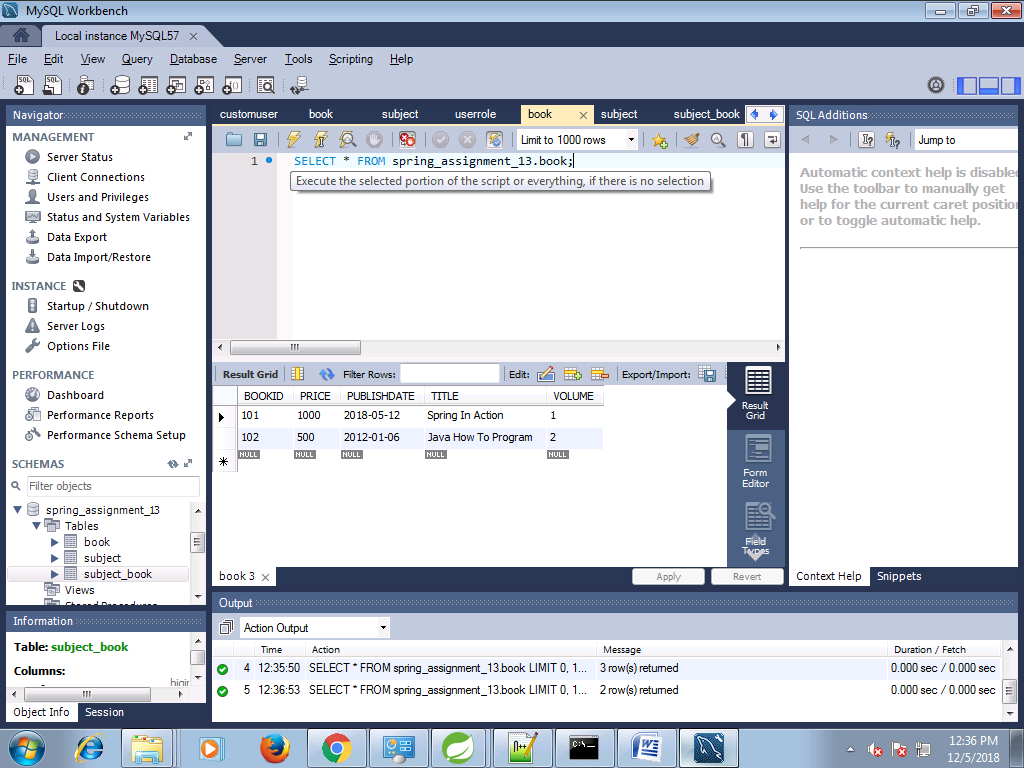


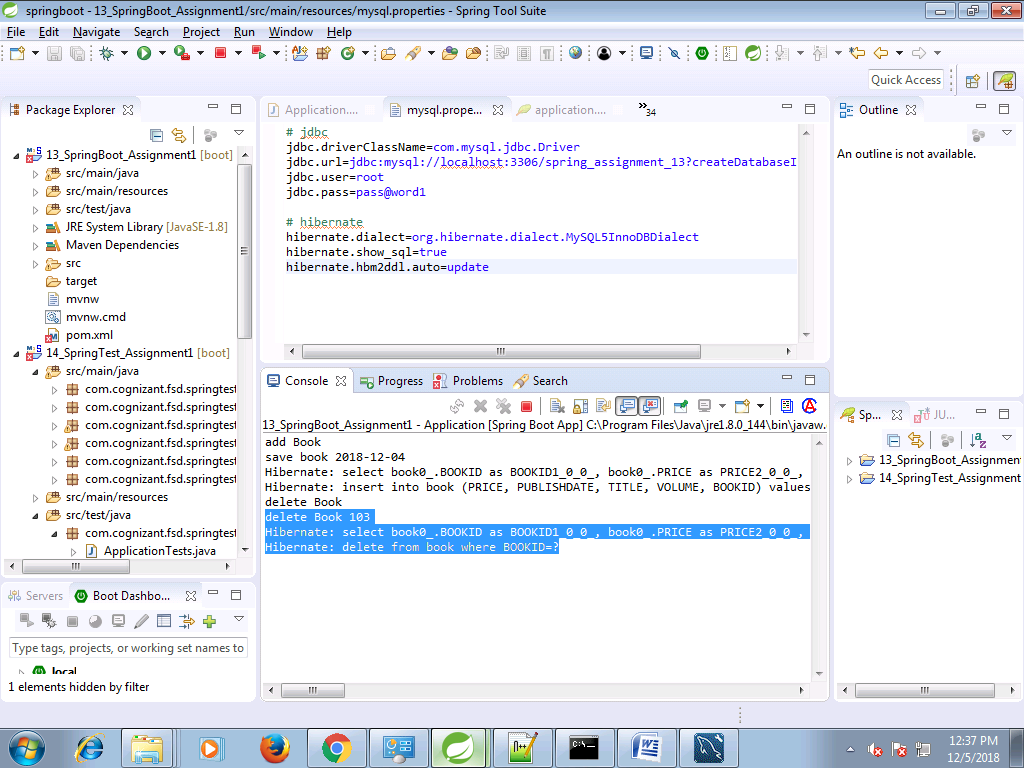


[Delete Book](http://localhost:9000/deleteBook)

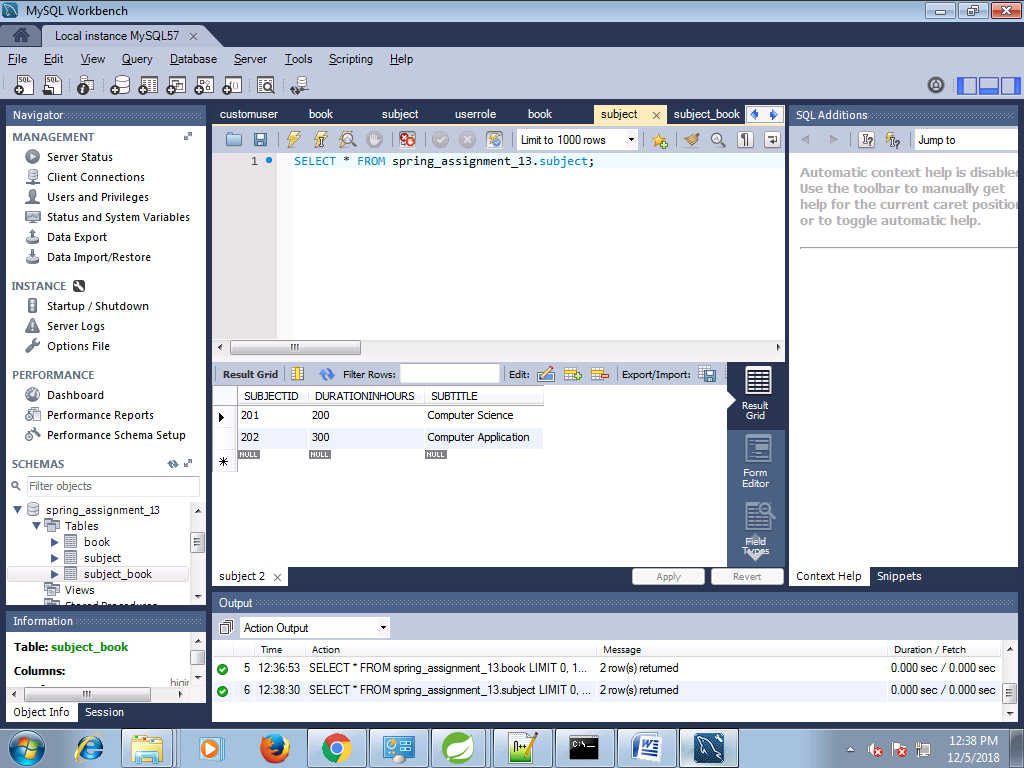


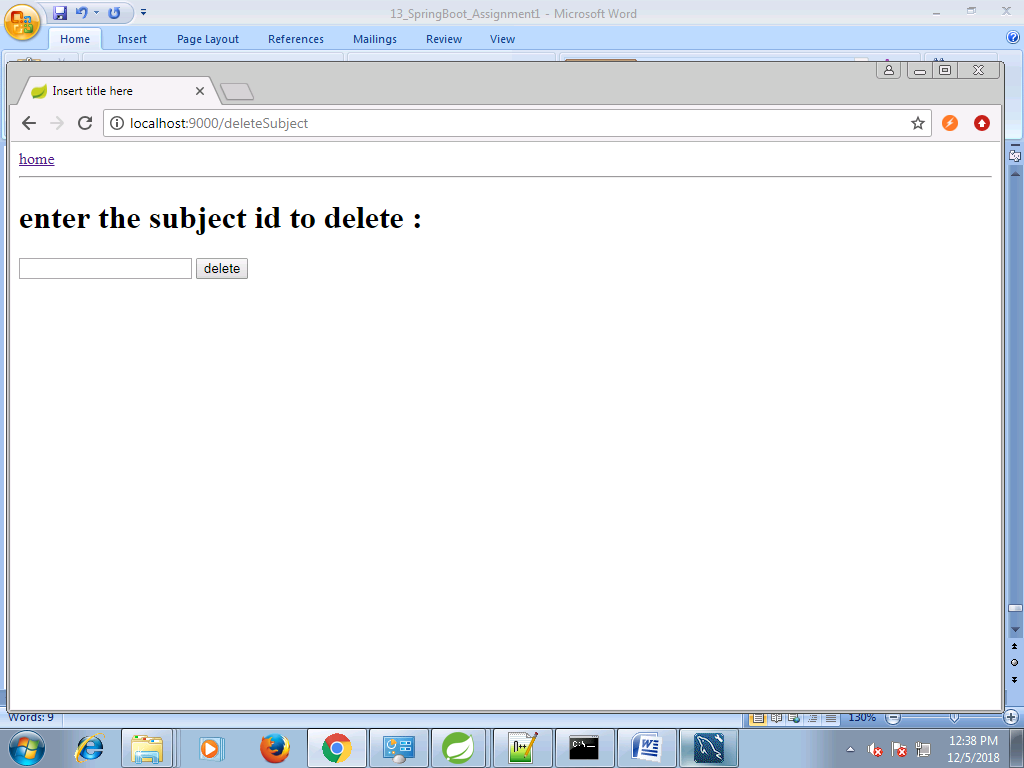


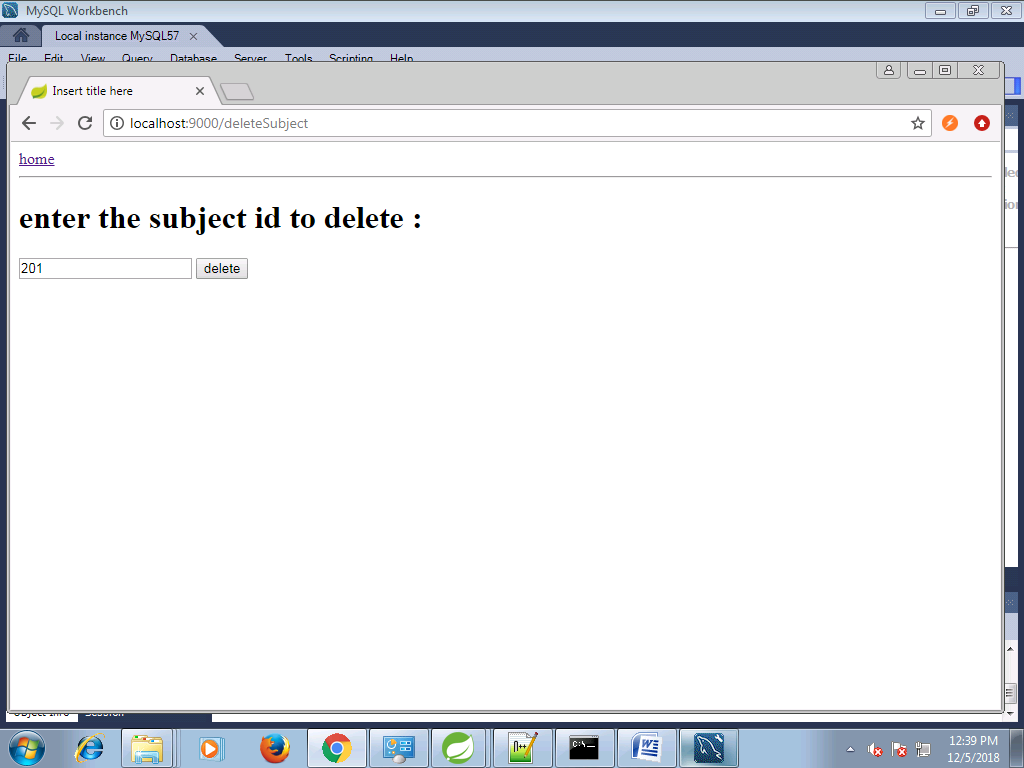


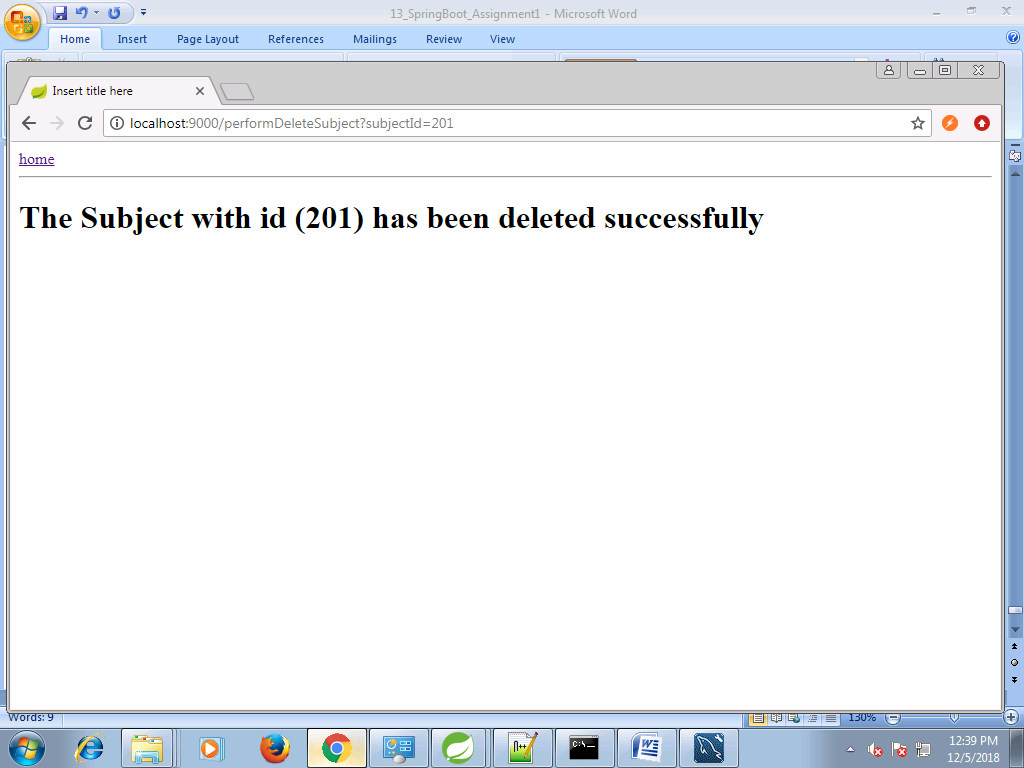


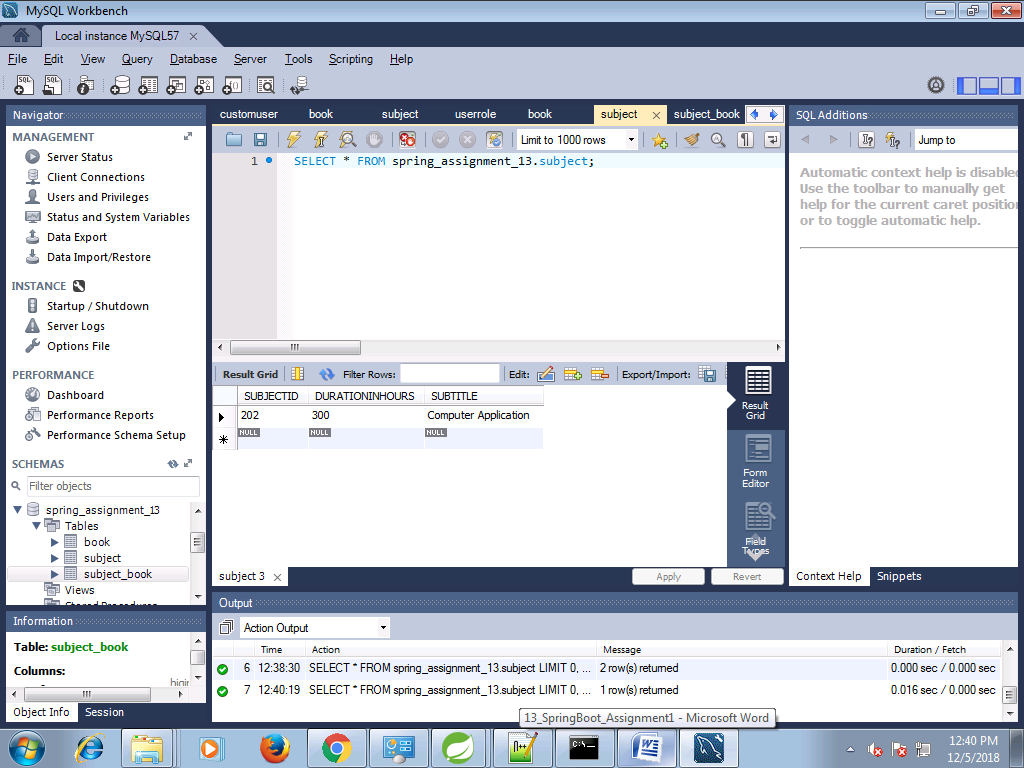
[Delete Subject](http://localhost:9000/deleteSubject)

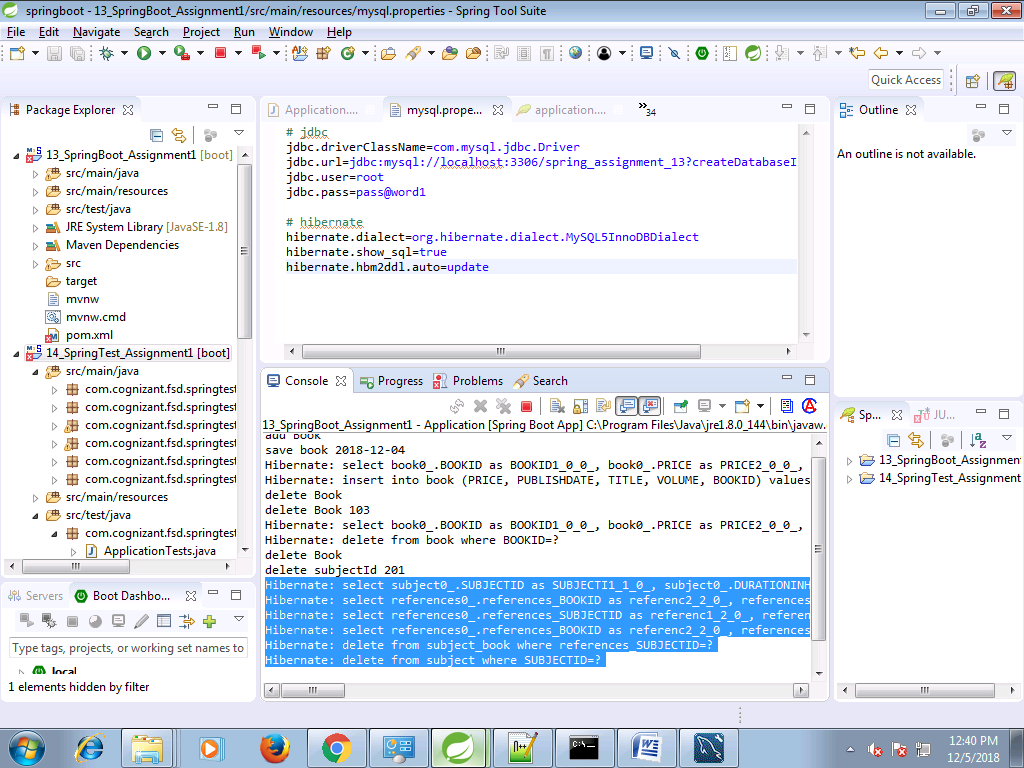




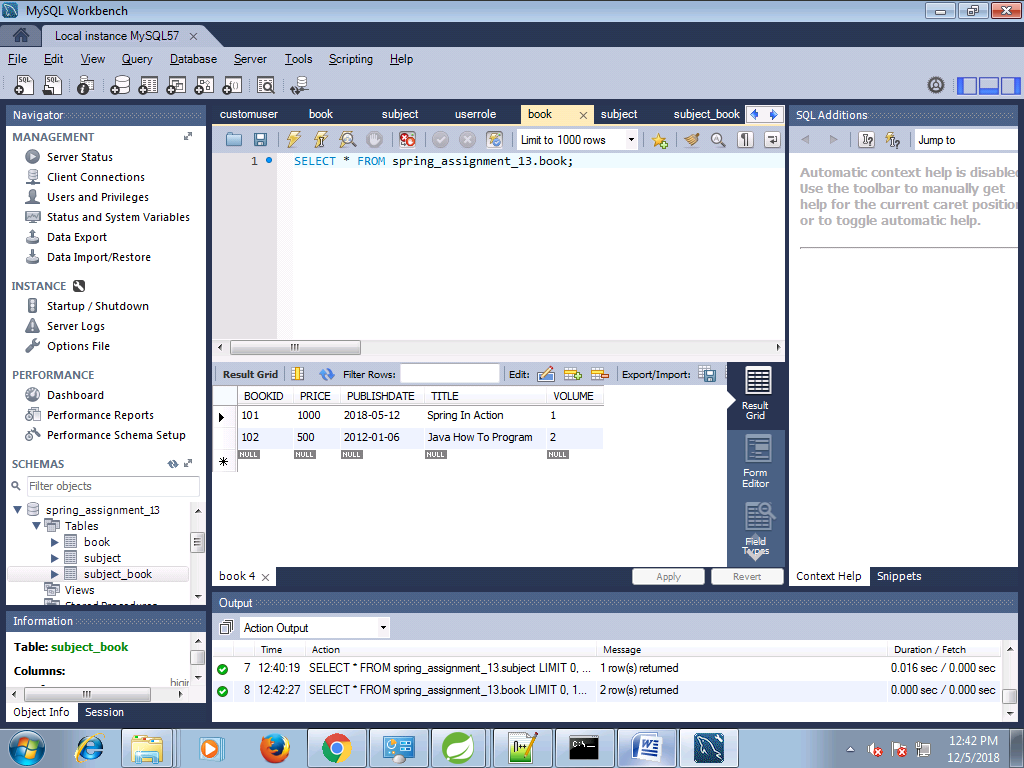


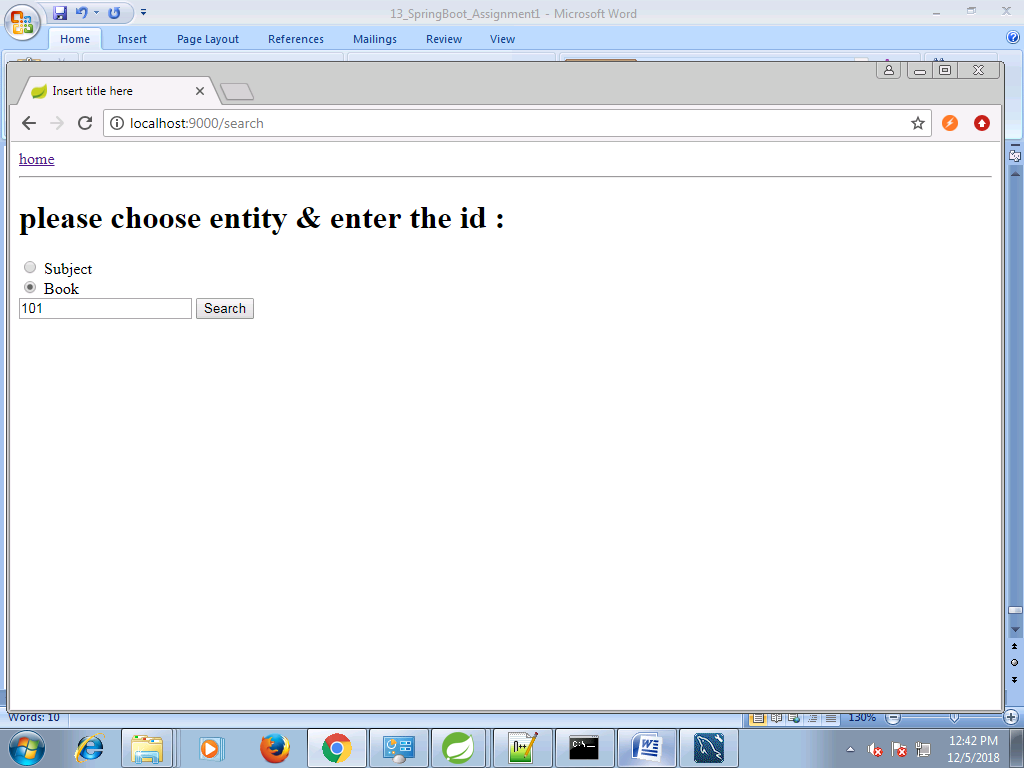


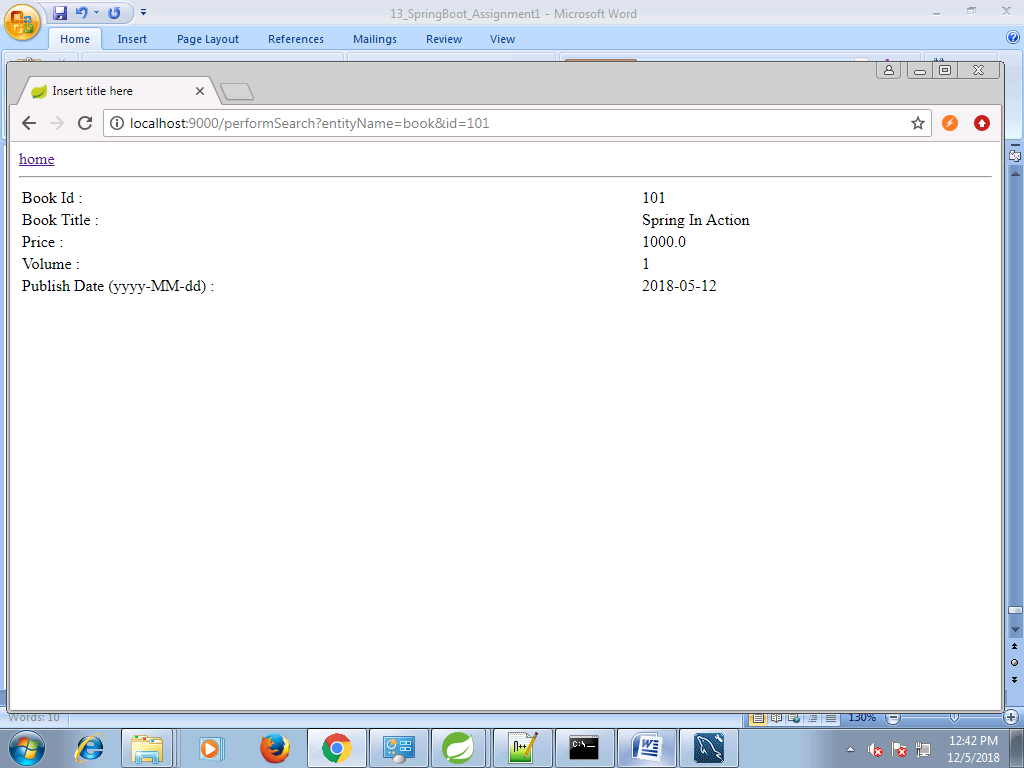




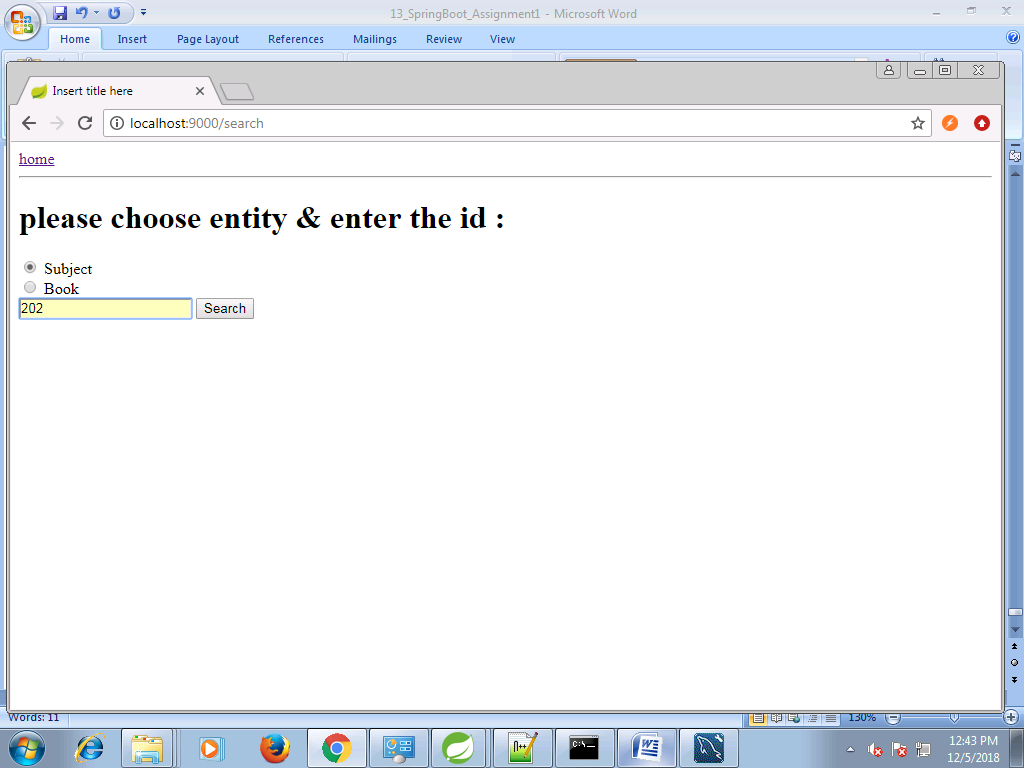
[Search](http://localhost:9000/search)

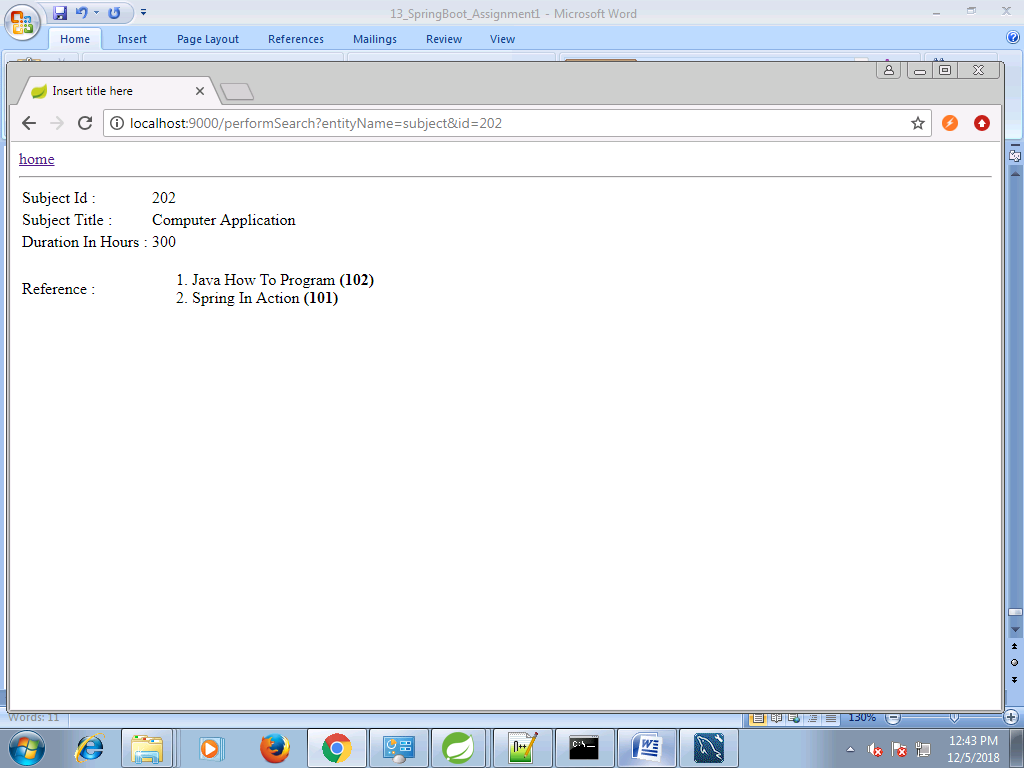






[Search](http://localhost:9000/search)





[Exit](http://localhost:9000/exit)

