

Yesterday's session : Phone Book App Setup

Today's session : PhoneBook Application Coding

```
-----ContactServiceImpl.java-----
package com.ashokit.service;

import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.ashokit.entity.Contact;
import com.ashokit.repository.ContactRepository;

@Service
public class ContactServiceImpl implements ContactService {

    @Autowired
    private ContactRepository contactRepo;

    @Override
    public boolean saveContact(Contact contact) {
        Contact savedObj = contactRepo.save(contact);
        return savedObj.getId() != null;
    }

    @Override
    public List<Contact> getAllContacts() {
        return contactRepo.findAll();
    }

    @Override
    public Contact getContactById(Integer contactId) {
        Optional<Contact> findById = contactRepo.findById(contactId);
        if (findById.isPresent()) {
            return findById.get();
        }
        return null;
    }

    @Override
    public boolean updateContact(Contact contact) {
        try {
            contactRepo.save(contact);
            return true;
        } catch (Exception e) {
            e.printStackTrace();
            return false;
        }
    }

    @Override
    public boolean deleteContactById(Integer contactId) {
        try {
            //TODO:Need to change
            contactRepo.deleteById(contactId);
        }
    }
}
```

```

        return true;
    } catch (Exception e) {
        e.printStackTrace();
        return false;
    }
}

```

-----ContactController.java-----

```
package com.ashokit.controller;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
```

```
import com.ashokit.entity.Contact;
import com.ashokit.service.ContactService;
```

```
@Controller
```

```
public class ContactController {
```

```
    @Autowired
```

```
    private ContactService contactService;
```

```
    @GetMapping("/loadForm")
```

```
    public String loadForm(Model model) {
```

```
        model.addAttribute("contact", new Contact());
```

```
        return "index";
```

```
    }
```

```
    @PostMapping("/saveContact")
```

```
    public String handleSaveContactBtn(Contact contact, Model model) {
```

```
        boolean isSaved = contactService.saveContact(contact);
```

```
        if(isSaved) {
```

```
            model.addAttribute("succMsg", "Contact Saved Successfully");
```

```
        }else {
```

```
            model.addAttribute("errMsg", "Failed to save contact");
```

```
        }
```

```
        return "index";
```

```
    }
```

```
}
```

-----index.jsp-----

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
```

```
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
    <h4>Save Contact</h4>
```

```
    ${succMsg} ${errMsg}
```

```
<form:form action="saveContact" method="POST" modelAttribute="contact">
  <table>
    <tr>
      <td>Contact Name</td>
      <td><form:input path="contactName"/></td>
    </tr>
    <tr>
      <td>Contact Number</td>
      <td><form:input path="contactNumber"/></td>
    </tr>
    <tr>
      <td>Contact Email</td>
      <td><form:input path="contactEmail"/></td>
    </tr>
    <tr>
      <td></td>
      <td><input type="submit" value="Save Contact"/></td>
    </tr>
  </table>

  <a href="viewContacts">View All Contacts</a>
</form:form>

</body>
</html>
```