

# Building ToDo init binder

Formatting Dates used in application Controller  
Target date looks like Tue Jan 05 21:16:25 IST 2021,  
formatting it as per our needs

todo.jsp

```
<%@taglib uri="http://www.springframework.org/tags/form"
prefix="form"%>
<html>
    <head>
        <title>First web application</title>
        <link href="webjars/bootstrap/4.5.3/css/
bootstrap.min.css" rel="stylesheet">
    </head>

    <body>
        <div class = "container">
            Add ToDo page for ${name}

            <form:form method="post" modelAttribute="todo">
                <fieldset class = "form-group">
                    <form:label path = "desc">Description</
form:label>
                    <form:input path = "desc" type = "text"
class = "form-control" required="required"/>
                    <form:errors path = "desc" cssClass =
"text-warning"/>
                </fieldset>
                <fieldset class = "form-group">
                    <form:label path = "targetDate">Target
Date</form:label>
                    <form:input path = "targetDate" type =
"text" class = "form-control" required="required"/>
                    <form:errors path = "targetDate"
cssClass = "text-warning"/>
                </fieldset>
                <button type = "submit" class = "btn btn-
success">Add</button>
            </form:form>

        </div>

        <script src="webjars/jquery/3.5.1/jquery.min.js"></
script>
        <script src="webjars/bootstrap/4.5.3/js/
bootstrap.min.js"></script>
    </body>
</html>
```

Add initBinder method in controller

```
public class TodoController {
```

```

    @Autowired
    private TodoService todoService;

    @InitBinder
    protected void initBinder(WebDataBinder binder) {
        SimpleDateFormat dateFormat = new SimpleDateFormat("dd/
MM/yyyy");
        binder.registerCustomEditor(Date.class, new
CustomDateEditor(dateFormat, false));
    }
    ...
}

```

Now you can update the target date field from UI (todo JSP Page). But the date which is getting displayed in list-todos page is not proper so now we will format it.

list-todos.jsp

Use JSTL tag library

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
```

Formatting target date field

```
<td><fmt:formatDate value="${todo.targetDate}"/></td>
```

Now Target Date in list-todos page looks like Jan 5, 2021,

formatting it still like dd/MM/yyyy

```
<td><fmt:formatDate value="${todo.targetDate}" pattern = "dd/MM/
yyyy"/></td>
```

Now Target Date in list-todos page looks like 05/01/2021.

### Adding a Date picker now

```

<dependency>
    <groupId>org.webjars</groupId>
    <artifactId>bootstrap-datepicker</artifactId>
    <version>1.9.0</version>
</dependency>

```

### Now adding a script for date picker

```

<script>
    $('#targetDate').datepicker({
        format : 'dd/mm/yyyy'
    });
</script>

```

Update works but not add method to make it work change new Date() to todo.getTargetDate()

### In todo Controller make changes

```

@RequestMapping(value = "/add-todo", method = RequestMethod.POST)
public String addTodo(ModelMap modelMap, @Valid Todo todo,
BindingResult bindingResult) {

```

```
        if (bindingResult.hasErrors()) {
            return "todo";
        }
        todoService.addTodo(new Todo((String) modelMap.get("name"),
        todo.getDesc(), todo.getTargetDate(), false));
        return "redirect:/list-todos";
    }
}
```