

Design Patterns

MSc in Communications Software

Produced
by

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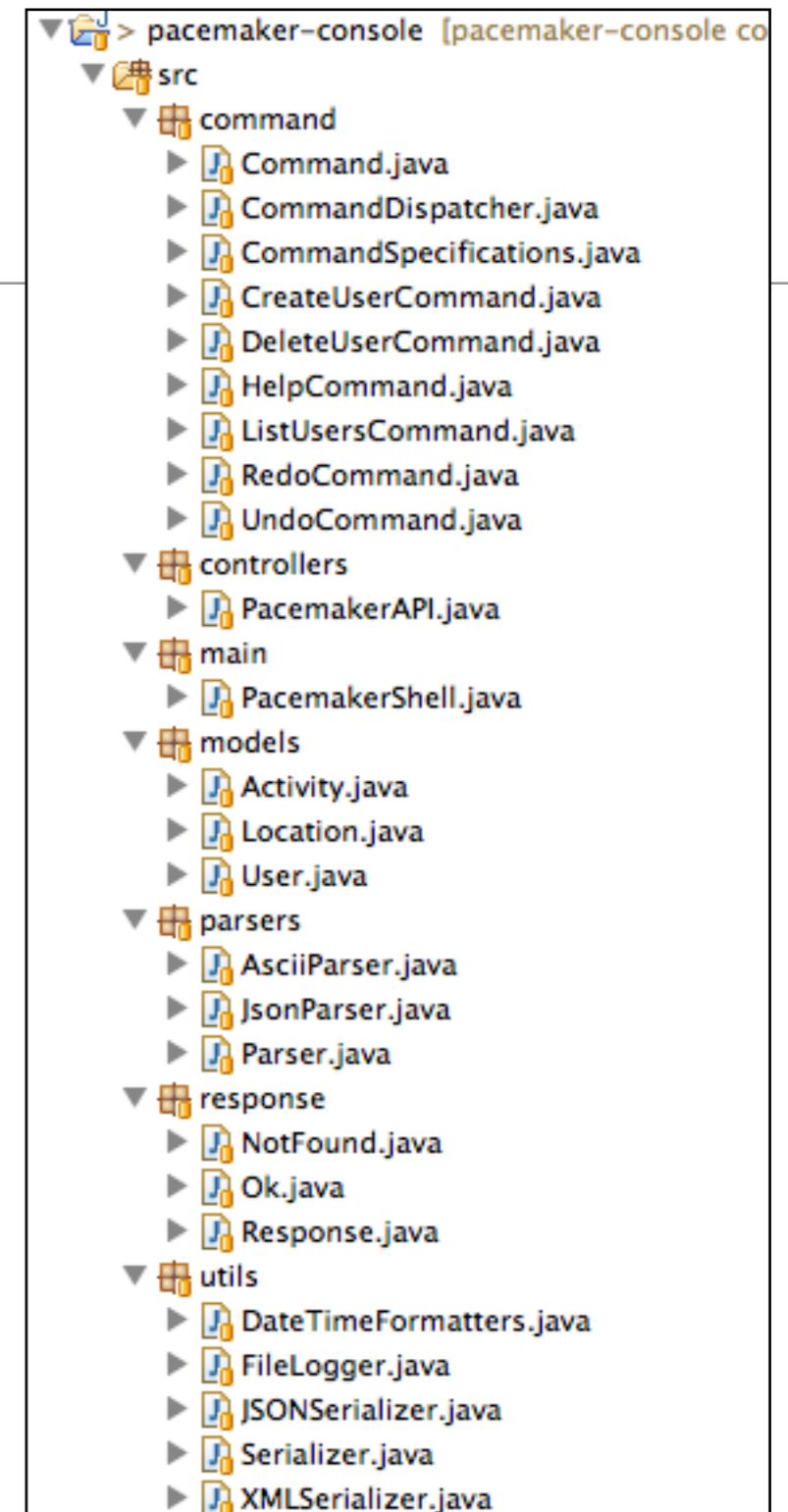
Pacemaker Command

pacemaker-console

- Limited command set:

- Create User
- Delete User
- List Users
- Undo
- Redo

```
Welcome to pacemaker-console - ?help for instructions
pm> help
[delete-user, help, undo, list-users, redo, create-user]
pm>
pm>
```



Transcript

- Create User
- Delete User
- List Users

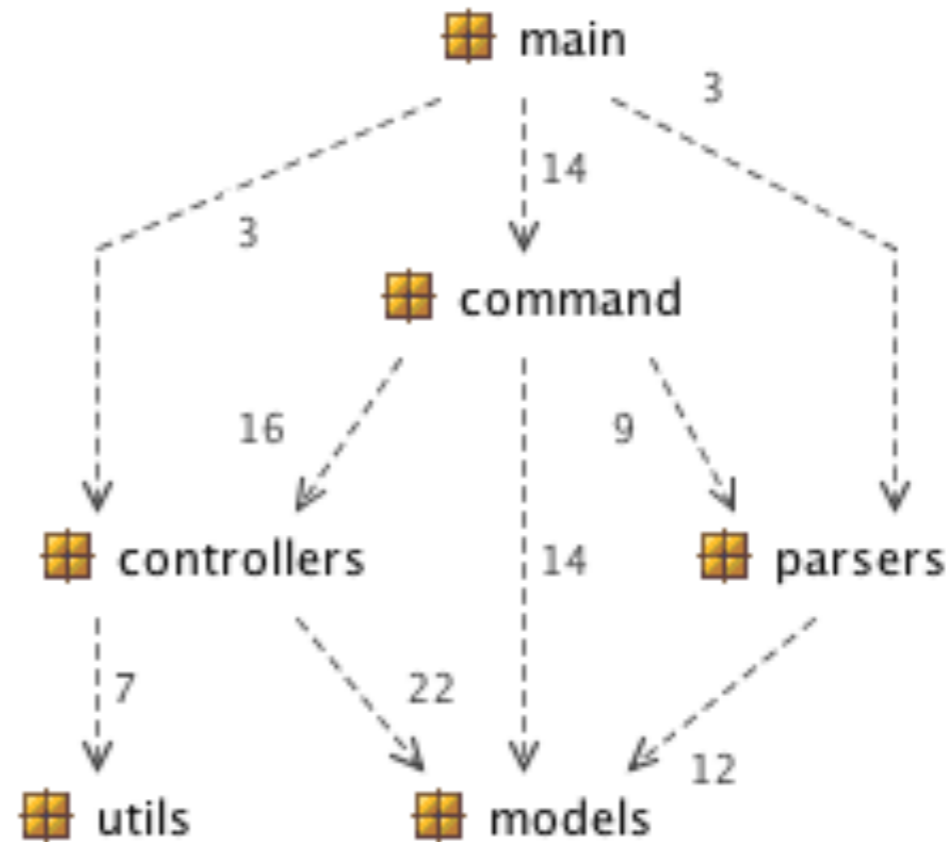
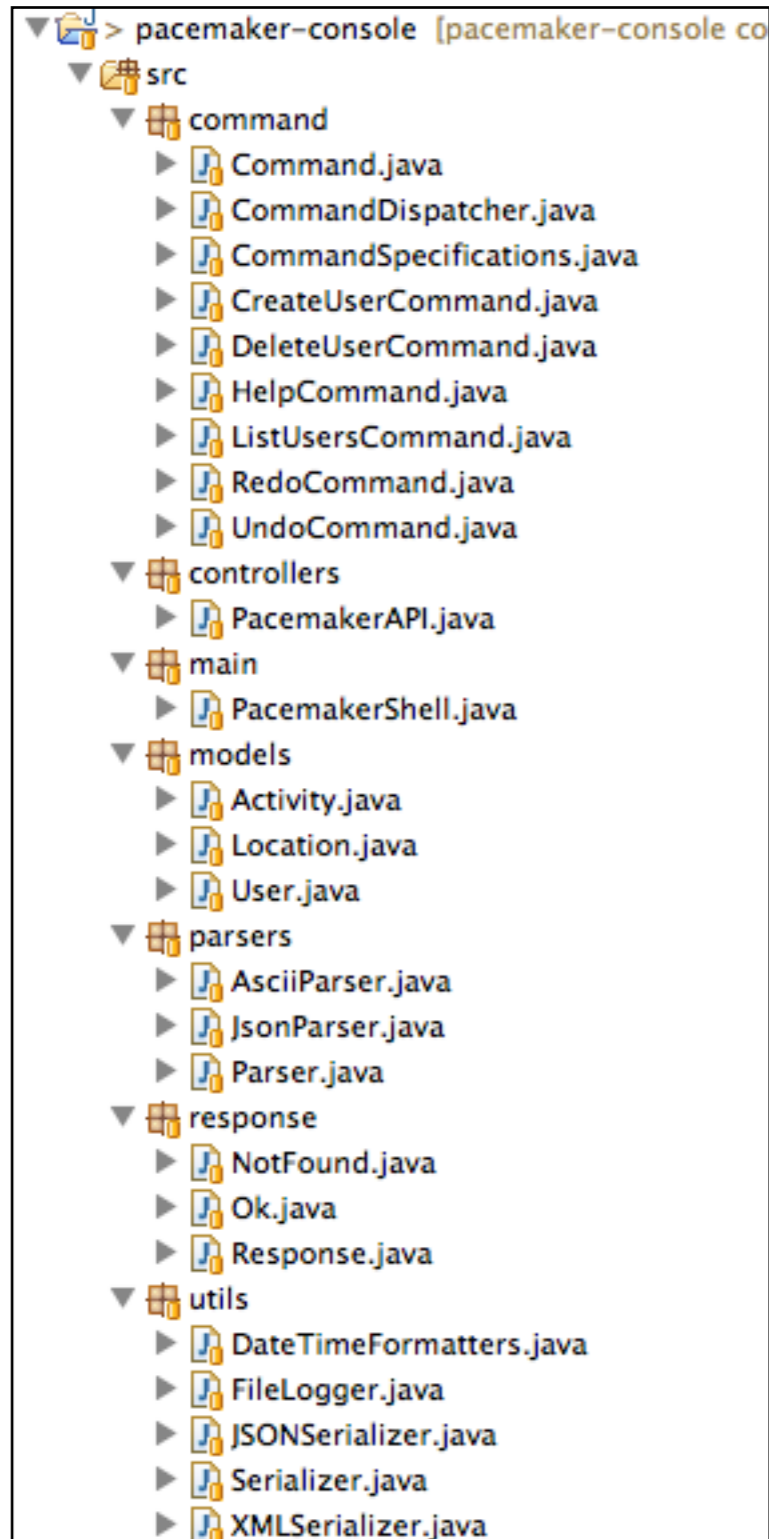
```
Welcome to pacemaker-console - ?help for instructions
pm> help
[delete-user, help, undo, list-users, redo, create-user]
pm>
pm> cu homer simpson homer@simpsin.com secret
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 1 | homer | simpson | homer@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> cu marge simpson marge@simpson.com secret
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 2 | marge | simpson | marge@simpson.com | secret |
+-----+-----+-----+-----+-----+
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 1 | homer | simpson | homer@simpsin.com | secret |
| 2 | marge | simpson | marge@simpson.com | secret |
+-----+-----+-----+-----+-----+
pm> du 1
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 2 | marge | simpson | marge@simpson.com | secret |
+-----+-----+-----+-----+-----+
pm>
```

Transcript (with undo/redo)

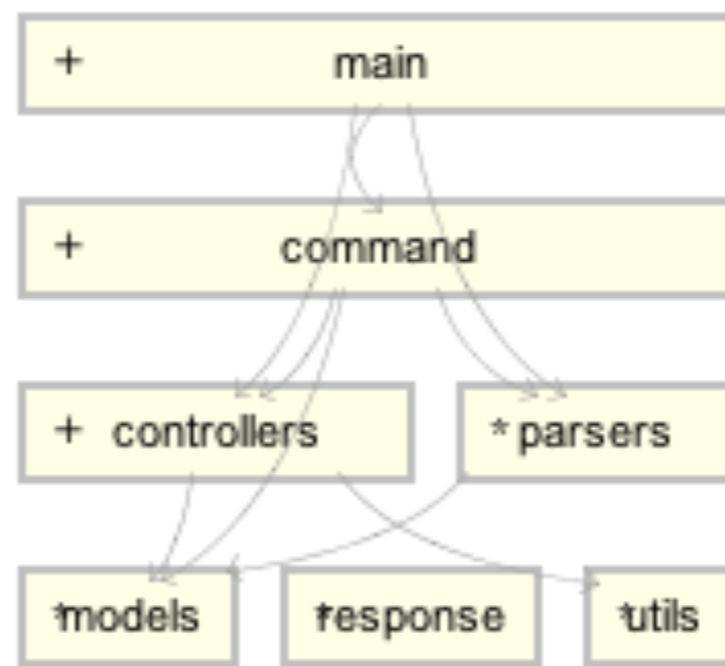
- undo
- redo

```
Welcome to pacemaker-console - ?help for instructions
pm> cu homer simpson homer@simpsin.com secret
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 1 | homer | simpson | homer@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> cu marge simpson marge@simpsin.com secret
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 2 | marge | simpson | marge@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 1 | homer | simpson | homer@simpsin.com | secret |
| 2 | marge | simpson | marge@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> undo
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 1 | homer | simpson | homer@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> undo
pm> lu
pm> redo
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 3 | homer | simpson | homer@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm> redo
pm> lu
+-----+-----+-----+-----+-----+
| ID | FIRSTNAME | LASTNAME | EMAIL | PASSWORD |
+-----+-----+-----+-----+-----+
| 3 | homer | simpson | homer@simpsin.com | secret |
| 4 | marge | simpson | marge@simpsin.com | secret |
+-----+-----+-----+-----+-----+
pm>
```

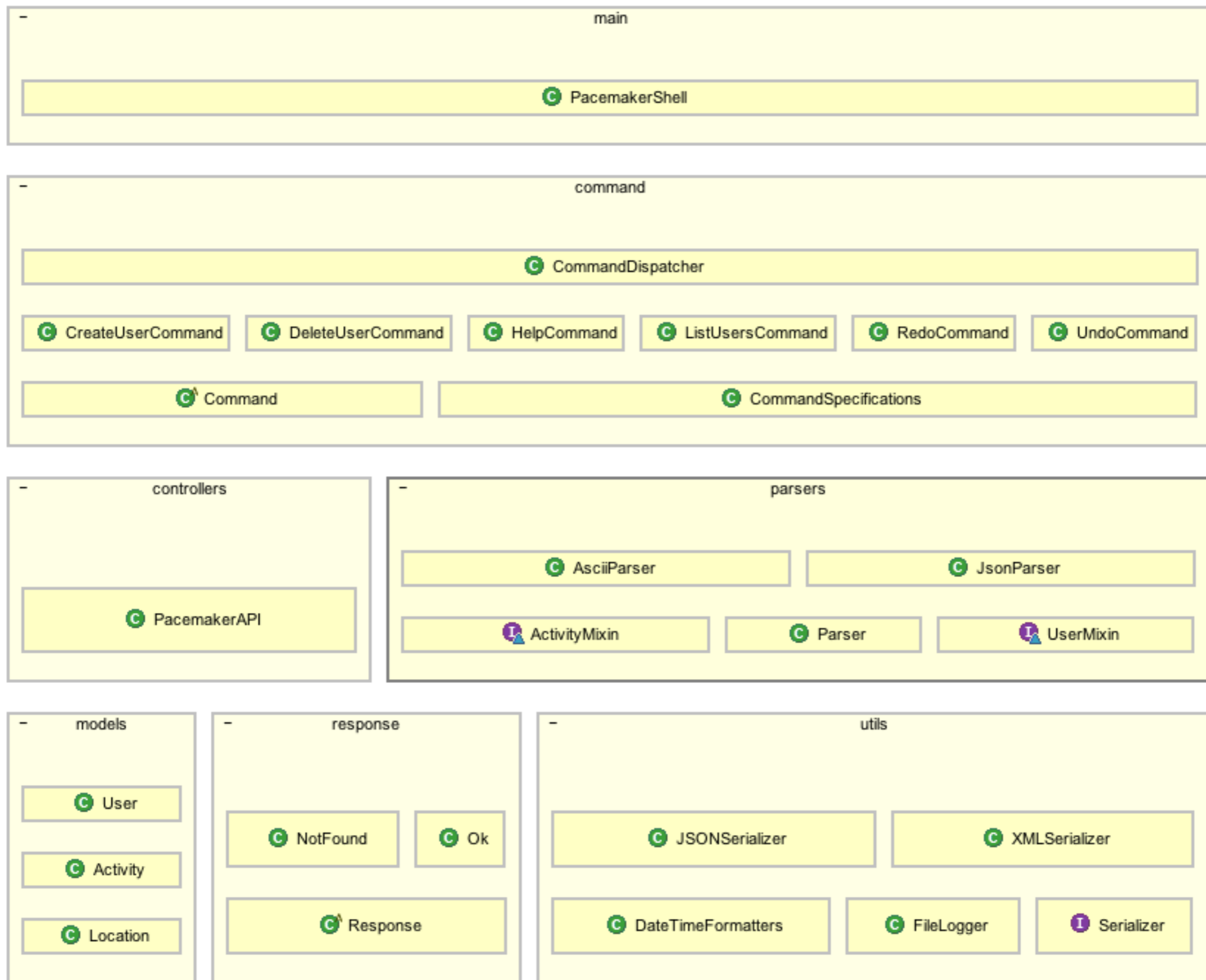
Architecture

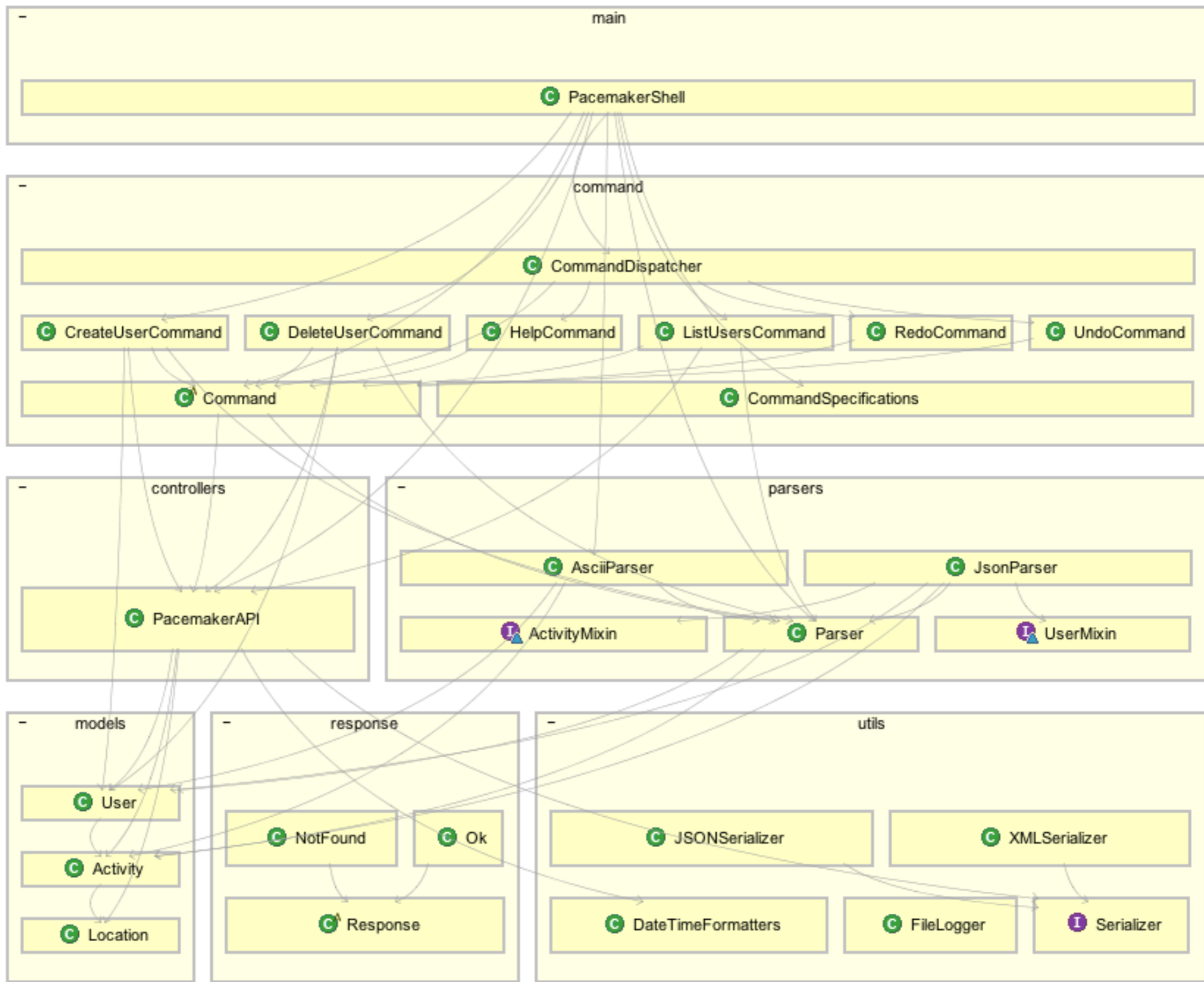


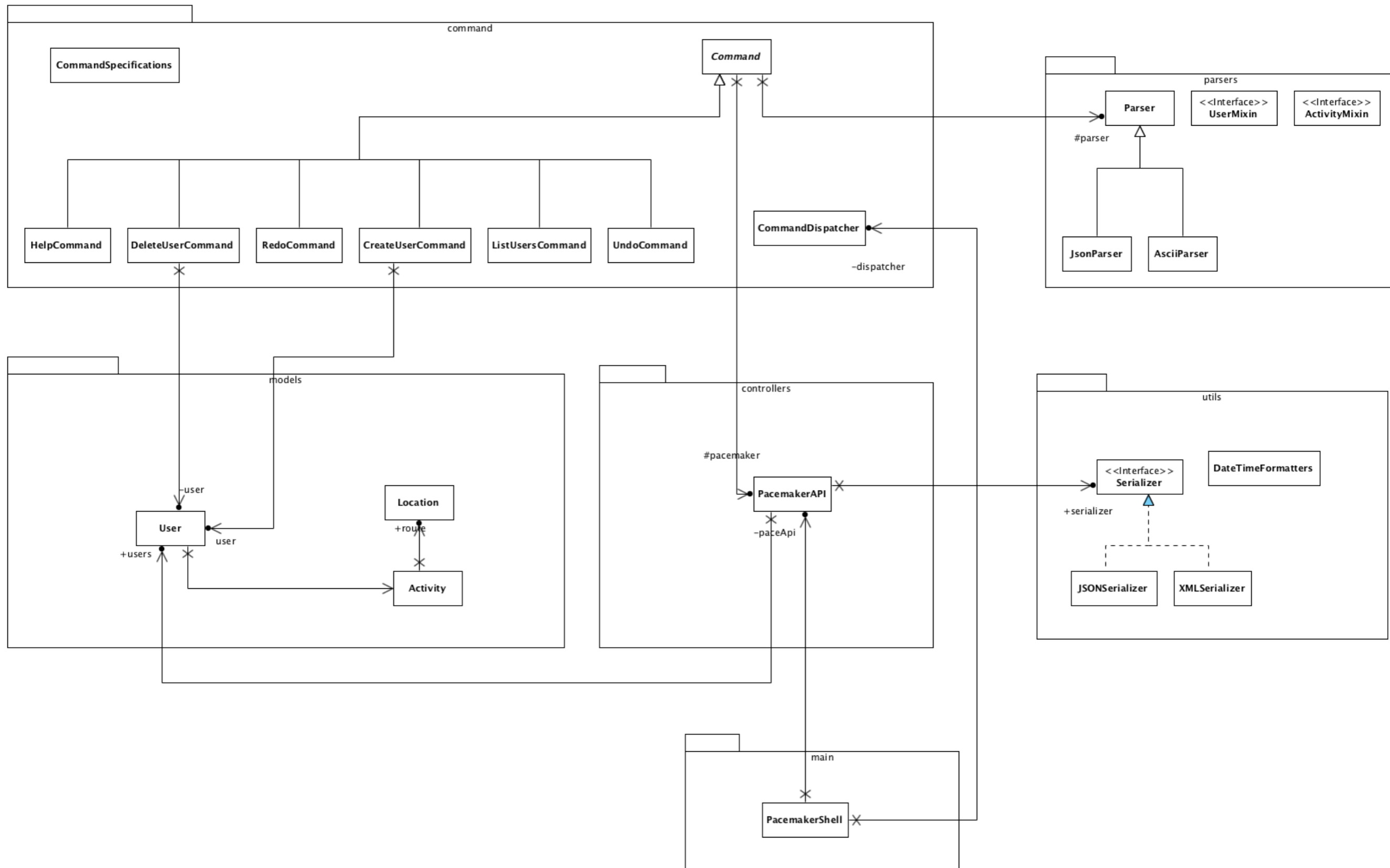
*Headway Structure 101

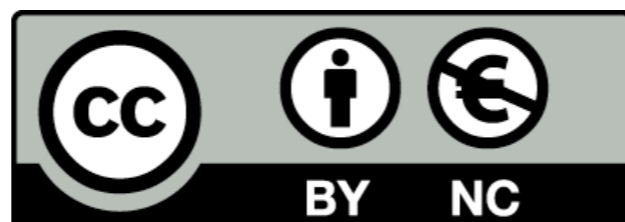


*Headway Structure 101









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