

# **Test task**

## Software Architecture

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# 1. Requirements

Main system configuration requirements:

- Operating system: MS Windows XP;
- Technology: J2EE/J2SE (JSP, Servlets);
- Application Server: Jakarta Tomcat;
- Database: Oracle;
- Browser compatibility: Internet Explorer with JavaScript enabled;
- Abstraction Layer: Spring
- MVC pattern: Spring MVC
- Data Access: JDBC or Hibernate

Functional requirements summary:

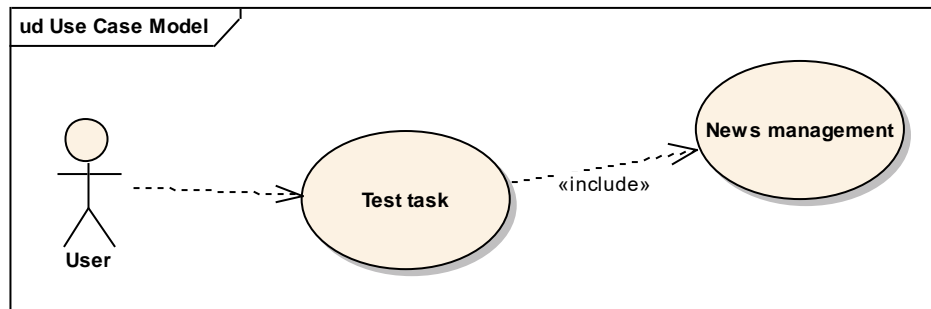
- interface internationalization using resource files;
- data output formatting, localization;
- forms data validation;

Implementation requirements:

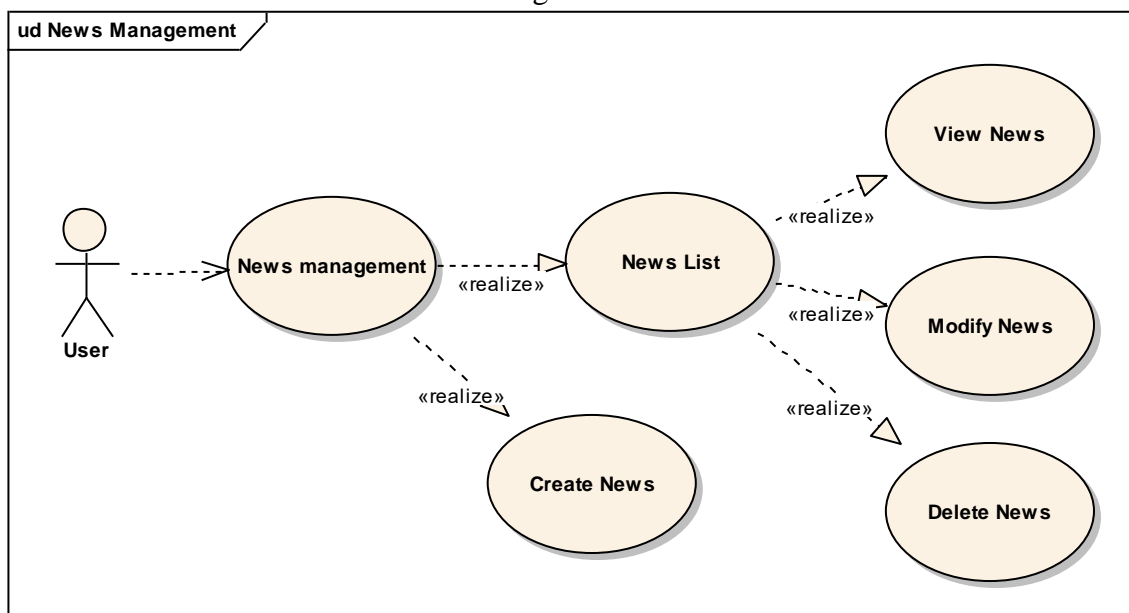
- Sun java coding conventions;
- in JSP pages, minimal scriptlets usage;
- Support for English and Russian languages.

## 2. Use-Case View

Main Use-Case



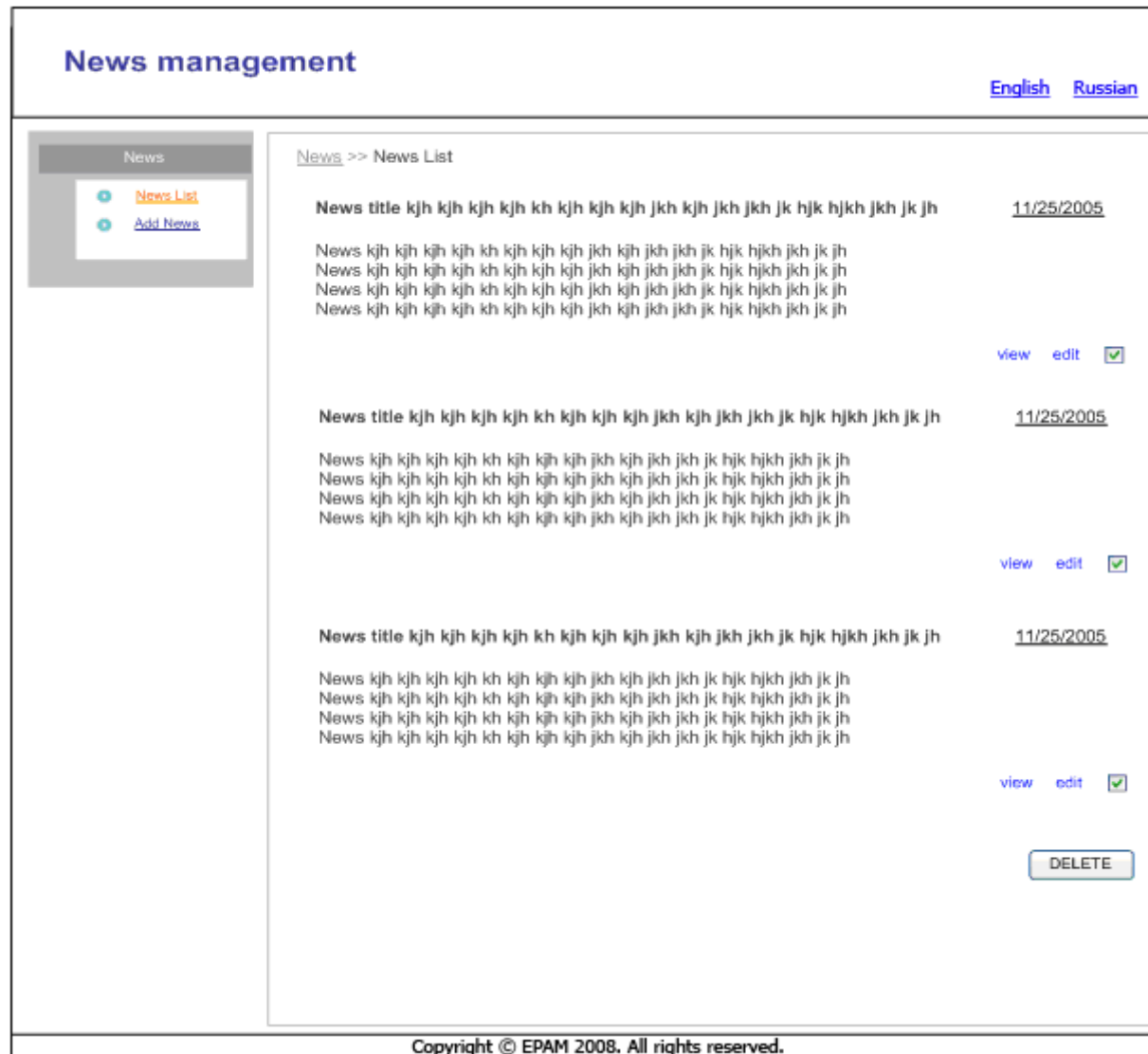
News Management Use-Case



### 3. Design View

#### 3.1. News section

##### News List view



#### News List – Description

<b>Description</b>	Screen, where all news can be seen.
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#### News List – Data Fields

Tab Order	Name	Label Name	Element Type	Default Value	Valid Values	Maximum Length	Required (Y/N)
1	Lbl001	#	Label	Number in list		N/A	N/A
2	Lbl002	Title	Label	News title		N/A	N/A
3	Lbl003		Label	News brief			
4	Lbl003	Date	Label	News date		N/A	N/A
5	Cb001	Select	Checkbox	Not checked	Checked, not checked	N/A	N/A

#### News List – Links and Buttons

Link Name	Label Name	Result
Lnk001	view	Go to the View News screen.
Lnk002	edit	Goes to the Add/Edit News screen.
Btn002	DELETE	Apply BR#1, show confirmation message, then delete selected (with <Select> checkbox checked) News

#### News List – Business Rules and Requirements

Requirement	Description
1	At least one check box must be selected to allow user to delete news(s). If no check boxes selected, then show error message E04.
2	News list is ordered by date (default order).

## News View

### News management

[English](#) [Russian](#)

News

[News List](#)  
[Add News](#)

News >> News View

News Title

Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf

News Date

11/25/2005

Brief

Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf  
Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf  
Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf

Content

Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf  
Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf  
Skjdfhskj kjsd fhskdjf hsdkjfhskdjfh sjkfh sdkjf hsdkjhf skjdhf

EDIT

DELETE

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## News View – Description

<b>Description</b>	This screen allows user to view news item data.
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## News View – Data Fields

Tab Order	Name	Label Name	Element Type	Default Value	Valid Values	Maximum Length	Required (Y/N)
1	Lbl001	Title	Label			N/A	N/A
2	Lbl002	Date	Label			N/A	N/A
3	Lbl003	Brief	Label			N/A	N/A
4	Lbl004	Content	Label			N/A	N/A

## News View – Links and Buttons

Link Name	Label Name	Result
Btn001	Edit	Goes to the Add/Edit News screen.
Btn002	Delete	Shows confirmation message E08, then deletes news and goes to “News List” screen.

## News View – Business Rules and Requirements

Requirement	Description



## News management

[English](#) [Russian](#)

News

[News List](#)  
[Add News](#)

### News >> Add News

News Title

News Date

Brief

Text Text Text Text Text Text Text Text  
Text Text Text Text Text Text Text  
Text Text Text Text

Content

Text Text Text Text Text Text Text Text Text Text Text Text Text  
Text Text Text Text Text Text Text Text Text Text Text Text Text  
Text Text Text Text Text Text Text Text Text Text Text Text Text

SAVE

CANCEL

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### News Add/Edit – Description

Description	Screen for adding new news or editing selected.
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### News Add/Edit – Data Fields

Tab Order	Name	Label Name	Element Type	Default Value	Valid Values	Maximum Length	Required (Y/N)
1	Txt001	Title	Textbox	None		100	Y
3	Txt003	Date	Textbox	Current date	Date format strings	10	Y
4	TxtA001	Brief	Textarea	None		500	Y
5	TxtA002	Content	Textarea	None		2048	Y

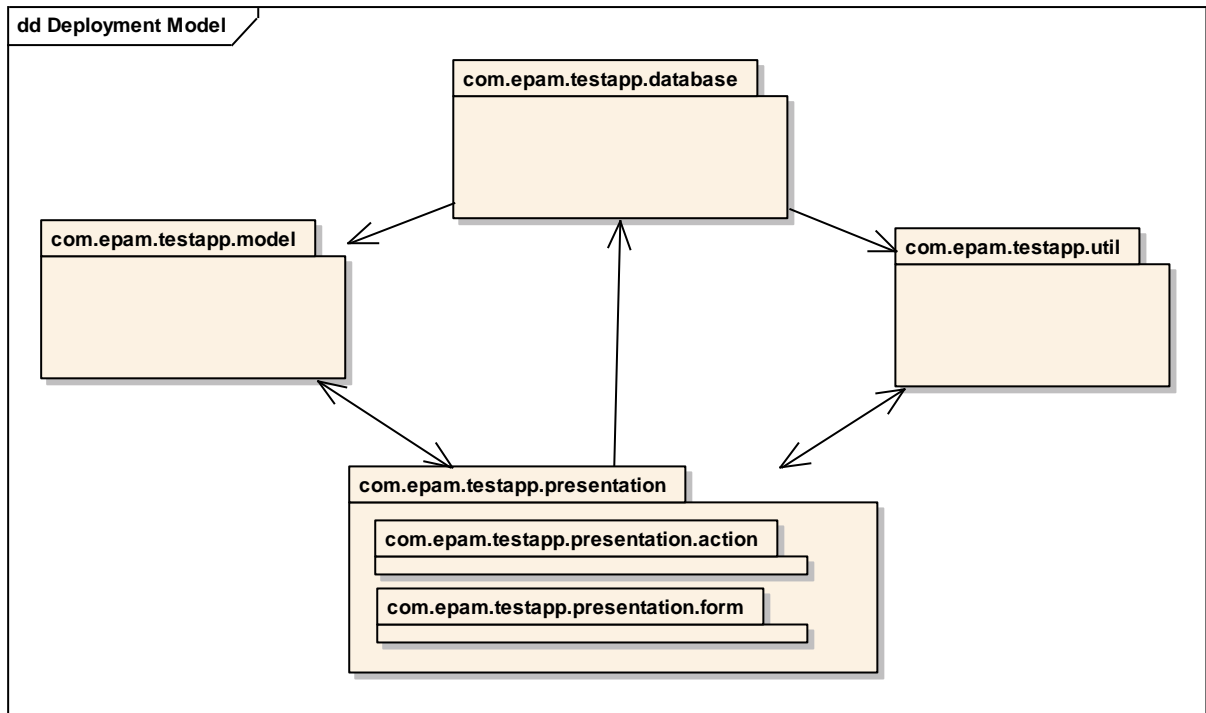
### News Add/Edit – Links and Buttons

Link Name	Label Name	Result
Btn001	Save	Applies BR#1; then stores or updates news and then goes to “News View” screen
Btn002	Cancel	Discards changes and goes to “News List” screen (if form opened from list view) or “News View” screen (if form opened from view screen).

### News Add/Edit – Business Rules and Requirements

Requirement	Description
1	All required fields must be filled in. If they are not, then validation message is shown.

## 4. Logical View



## 5. Implementation View

