

FUJITSU Software

Interstage Application Server

A decorative horizontal band with a red-to-dark-red gradient. It features abstract, glowing white and red lines that swirl and intersect, creating a sense of motion and energy.

JavaScript Libraries User's Guide

Windows/Solaris/Linux

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Preface

Purpose of This Document

This document provides information about the following JavaScript Libraries.

- jQuery Mobile
- jQuery UI

Intended Readers

This document is intended for users who will create and run applications using this framework.

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Chapter 1 jQuery Mobile

This chapter explains how to use jQuery Mobile.

1.1 Release Information

1.1.1 New Features and Enhancements

Functionality that has been added or enhanced since the previous version/level is explained below.

Category	Overview	New feature
Page	Added a popup widget that pops up on the current page.	Yes
List view	<ul style="list-style-type: none">- The list view can be expanded and collapsed. Accordion is also supported.- Added a feature to automatically insert delimiters in the list view.	Yes
Content	The icons and widths for collapsibles and collapsible sets can be customized.	Yes
Slider	Added sliderstart and sliderstop events.	Yes
Other	Enhanced support for jQuery 1.8.3.	

1.1.2 Information Related to Compatibility

This section explains the functionalities that are incompatible with the previous version/level.

Incompatible functionality	
Visual quality	Enhanced the display so that the user can easily identify that it is "read-only".
	Improved the usability by enlarging the icons so that the user can tap them easier.
	Changed the default for the toolbar buttons to "mini".
	Enhanced the widths of the field container elements.

1.2 Functionality Overview

jQuery Mobile (JavaScript framework) is supported. With jQuery Mobile, applications that support smart devices can be developed quickly and easily.

("Smart device" is a generic term for any device that has operability equivalent to that of a smartphone.)

Features

- Development is possible with only HTML knowledge

While development is possible with only HTML knowledge, advanced customization can be achieved using JavaScript or CSS.

- A large number of components are provided for smart devices

Components such as toolbars, buttons and lists are provided out of the box. Just by combining these components with the HTML, applications can then be developed.

- Cross-platform support

Since smart devices and the browser are widely supported, a site that supports cross-platforms can easily be created.

This product contains jQuery Mobile 1.2.0 and jQuery 1.8.3.

1.3 How to Develop an Application Using jQuery Mobile

1.3.1 Files Provided

The script files, style sheets and images shown below are provided. Files that have ".min" before the file extension are compressed version files, where spaces, line breaks and comments have been removed to reduce the file size. We recommend using these in the production environment. Files that do not have ".min" before the extension include spaces, line breaks and comments for readability, and can be used for development and debugging.

Files provided	Description
jquery.mobile-1.2.0.js	jQuery Mobile script
jquery.mobile-1.2.0.min.js	jQuery Mobile script compressed version
jquery.mobile-1.2.0.css	jQuery Mobile style sheet
jquery.mobile-1.2.0.min.css	jQuery Mobile style sheet compressed version
jquery-1.8.3.js	jQuery script
jquery-1.8.3.min.js	jQuery script compressed version
images/ajax-loader.gif	Image used in the style sheet
images/ajax-loader.png	Image used in the style sheet
images/icons-18-black.png	Image used in the style sheet
images/icons-18-white.png	Image used in the style sheet
images/icons-36-black.png	Image used in the style sheet
images/icons-36-white.png	Image used in the style sheet

1.3.2 How to Embed the Application

jQuery Mobile is embedded in the application (WAR/EAR) before being used.

1. Copy the <drive name>:\smartp\jquerymobile\runtime directory of this product media to the application directory (this is at the same level as the WEB-INF directory).
2. Insert the following between the HTML <head>-</head> tags:

```
<link rel="stylesheet" href="runtime/jquery.mobile-1.2.0.min.css"/>
<script src="runtime/jquery-1.8.3.min.js"> </script>
<script src="runtime/jquery.mobile-1.2.0.min.js"> </script>
```

3. Package the HTML, JSP, and class files that were created.

An example of the application directory structure is shown below.

```
index.jsp
/runtime/jquery.mobile-1.2.0.min.css
/runtime/jquery-1.8.3.min.js
/runtime/jquery.mobile-1.2.0.min.js
/runtime/images/ajax-loader.gif
/runtime/images/ajax-loader.png
/runtime/images/icons-18-black.png
/runtime/images/icons-18-white.png
/runtime/images/icons-36-black.png
/runtime/images/icons-36-white.png
/WEB-INF/web.xml etc.
```

1.3.3 How to Create an HTML Page using jQuery Mobile

For details on how to create an HTML page using jQuery Mobile, refer to the "Demos and documentation" webpage (<http://jquerymobile.com/demos/1.2.0/>) on the jQuery Mobile website (<http://jquerymobile.com/>).

1.4 API References

For details, refer to the "Demos and documentation" webpage (<http://jquerymobile.com/demos/1.2.0/>) on the jQuery Mobile website (<http://jquerymobile.com/>).

1.5 Method of Operation

For details, refer to the Java EE Operator's Guide, Java EE Operator's Guide (Java EE 6 Edition) and J2EE User's Guide.

1.6 Migration Method

This section explains how to migrate jQuery Mobile that was embedded in applications in the previous version to the latest jQuery Mobile that is provided in this version. The application you are currently using will change; therefore it is recommended that you back up the application resources beforehand in case the migration fails.

1. Switch the runtime
 1. Delete the runtime directory that is embedded directly under the application (on the same line as the WEB-INF directory).
 2. Copy the <drive name>:\smartp\jquerymobile\runtime directory of this product media so that it is directly under the application.

2. Edit the application

Edit the text between the HTML <head> and </head> tags as follows:

```
<link rel="stylesheet" href="runtime/jquery.mobile-1.2.0.min.css"/>  
<script src="runtime/jquery-1.8.3.min.js"> </script>  
<script src="runtime/jquery.mobile-1.2.0.min.js"> </script>
```

After the edit of the application is complete, package and then redeploy the application.

1.7 Support List

Operating Environment

Operations are supported in the environments shown below.

Server

Product name/Edition/Features

Product name/Edition	Features		
	Java EE 5	Java EE 6	J2EE
Interstage Application Server Enterprise Edition V11.1	Yes	Yes	Yes
Interstage Application Server Standard-J Edition V11.1	Yes	Yes	Yes

Yes: Supported No: Unsupported

Client

Client Requirements

The client works with a web browser that must support HTML5.

Operating systems that are supported:

Operating system version	Web browser
Android 2.3.4	Default browser
Android 2.3.5	Default browser
Android 3.2	Default browser
Android 4.0.3	Default browser
Android 4.0.4	Default browser
Windows Phone 7.5	Default browser
iOS 5.1	Default browser

Web browsers that are supported:

Internet Explorer 9 and 10
Google Chrome 25.0.1364.97 m
Firefox 19.0

1.8 Notes

- This product supports jQuery Mobile. However, this does not necessarily indicate that the jQuery and jQuery Mobile communities support this product.
- The method of reading jQuery Mobile-related files from the Contents Delivery Network (CDN) is not supported. For details on how to embed these files in the Web application, refer to [1.3 How to Develop an Application Using jQuery Mobile](#).
- Do not change the names of the files provided.
- Do not change the content of the files provided.
- When used with other components of this product, only web browsers or operating systems that have been tested to confirm the behavior of the component should be used.
- The samples cannot be used for commercial/business purposes.
- Because of the jQuery Mobile specification, the elements that are displayed may be different depending on which platform (PC, operating system, web browser) is used.
- Incompatibility may occur in the next version.

1.9 Restrictions

J2EE components cannot be used.

1.10 Messages

This page explains the cause of and action required to resolve the following messages that may occur when using jQuery Mobile.

Error Loading Page

Cause

The link destination information may be invalid.

Action

Check the link destination information, for example id, URL, or access privileges. Use a web browser that supports HTML5. Check the network status.

1.11 FAQs

This page explains the actions required to resolve the following problems that may occur when using jQuery Mobile.

Nothing is displayed in the web browser window

Use a web browser that supports HTML5.

1.12 Samples

The samples are stored under <drive name>:\smartp\jquerymobile\sample of this product media.

For details on the samples, refer to the readme - this is bundled with the samples.

- <drive name> \smartp\jquerymobile\sample\pizza\readme_e.html

1.13 jQuery License Terms

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Chapter 2 jQuery UI

This chapter explains how to use jQuery UI.

2.1 Functionality Overview

"jQuery UI" is a library that provides a comprehensive set of "official" jQuery plugin components including widgets, animations and advanced effects. Using jQuery UI, it is possible to develop powerful web applications with advanced usability.

Features

- Easy to create pages that have a consistent design

Using themes, it is easy to provide consistent page design even when using different widgets.

- Enhanced window usability

Methods that enhance usability are provided.

- Enhanced jQuery methods and animation

The following jQuery methods have been enhanced:

- .show(), .hide() - Display and hide elements using custom effects
- .position() - Determine the position of an element relative to another

The following have been added as animation enhancements:

- Color animation
- Animation using the class attribute

This product contains jQuery UI 1.10.0 and jQuery 1.8.3.

2.2 How to Develop an Application Using jQuery Mobile

2.2.1 Files Provided

Files that have ".min" before the extension are compressed version files, where spaces, line breaks, and comments have been removed in order to reduce the file size. It is recommended that these be used for operations. Files that do not have ".min" before the extension include spaces, line breaks, and comments for readability, and can be used for development and debugging.

Directory	File	Description
/smartp/jqueryUI/runtime/js	jquery-ui-1.10.0.custom.js	jQuery UI script
	jquery-ui-1.10.0.custom.min.js	jQuery UI script compressed version
	jquery-ui-i18n.js	jQuery UI datepicker multilingual support script
	jquery-ui-i18n.min.js	jQuery UI datepicker multilingual support script compressed version
	jquery-1.8.3.js	jQuery script
	jquery-1.8.3.min.js	jQuery script compressed version
/smartp/jqueryUI/runtime/css/<theme directory name> (Note)	jquery-ui.css	jQuery UI style sheet
	jquery.ui.theme.css	jQuery UI style sheet (part of jquery-ui.css)
/smartp/jqueryUI/runtime/css/<theme directory name>/images (Note)	*.png	Images used in the style sheet

Note: The theme directory names are shown below.

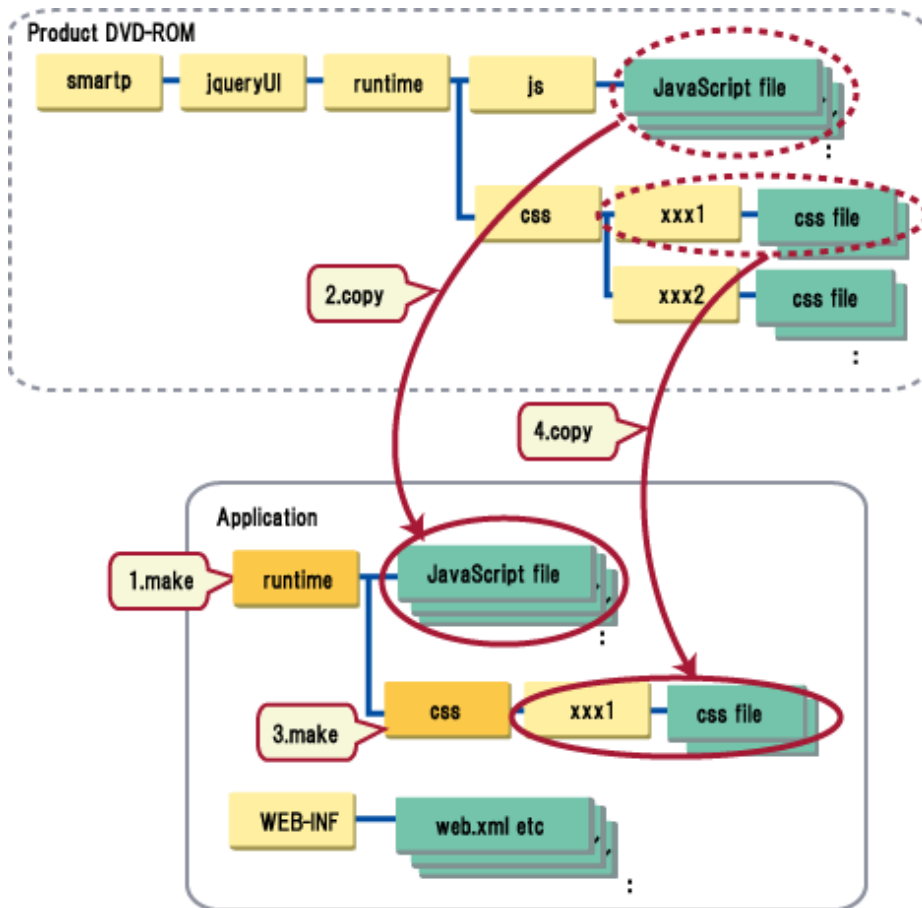
Theme name	Directory name corresponding to the theme name
Black Tie	black-tie
Blitzer	blitzer
Cupertino	cupertino
Dark Hive	dark-hive
Dot Luv	dot-luv
Eggplant	eggplant
Excite Bike	excite-bike
Flick	flick
Hot Sneaks	hot-sneaks
Humanity	humanity
Le Frog	le-frog
Mint Choc	mint-choc
Overcast	overcast
Pepper Grinder	pepper-grinder
Redmond	redmond
Smoothness	smoothness
South Street	south-street
Start	start
Sunny	sunny
Swanky Purse	swanky-purse
Trontastic	trontastic
UI darkness	ui-darkness
UI lightness	ui-lightness
Vader	vader

2.2.2 How to Embed the Application

jQuery UI is embedded in the application (WAR/EAR) before being used.

1) Copy the files

1. Create a "runtime" directory in the application directory (at the same level as the WEB-INF directory).
2. Copy the jQuery and jQuery UI JavaScript files that are in the <drive name>:\smartp\jqueryUI\runtime\js directory of this product media to the "runtime" directory that was created in Step 1. Note that the datepicker JavaScript should also be copied when datepicker is used.
3. If necessary, create a "css" directory in the "runtime" directory that was created in Step 1.
4. Copy the directory corresponding to the theme name that was used under the <drive name>:\smartp\jqueryUI\runtime\css directory of this product media to runtime\css.



2) Edit the HTML file

Insert the following between the HTML <head> and </head> tags.

```
<link rel="stylesheet" href="runtime/css/xxxx/jquery-ui.css"/>
<script src="runtime/jquery-1.8.3.min.js"> </script>
<script src="runtime/jquery-ui-1.10.0.custom.min.js "> </script>
```

"xxxx" is the directory name that corresponds to the theme name.

Note that, normally, only the jQuery UI script and jQuery script compressed versions should be used.

3) Package the files

Package the HTML, JSP, and class files that were created.

An example of the application directory structure is shown below.

```
index.jsp
/runtime/jquery-1.8.3.min.js
/runtime/ jquery-ui-1.10.0.custom.min.js
/runtime/css/xxxx/jquery-ui.css
/runtime/css/xxxx/images/*.png
/WEB-INF/web.xml etc.
```

2.2.3 How to Create an HTML Page using jQuery UI

For details on how to create an HTML page using jQuery UI, refer to the "jQuery UI Demos" webpage (<http://jqueryui.com/demos/>) on the jQuery UI website (<http://jqueryui.com/>).

2.3 API References

For details, refer to the "jQuery UI Documentation" webpage (<http://api.jqueryui.com/>) on the jQuery UI website (<http://jqueryui.com/>).

2.4 Method of Operation

For details, refer to the Java EE Operator's Guide, Java EE Operator's Guide (Java EE 6 Edition) and J2EE User's Guide.

2.5 Support List

Operating Environment

Operations are supported in the environments shown below.

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Product name/Edition/Features

Product name/Edition	Features		
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Interstage Application Server Enterprise Edition V11.1	Yes	Yes	Yes
Interstage Application Server Standard-J Edition V11.1	Yes	Yes	Yes

Yes: Supported No: Unsupported

Client

Client Requirements

The client works with a web browser that must support HTML5.

Web browsers that are supported:

Internet Explorer 9 and 10
Google Chrome 25.0.1364.97 m
Firefox 19.0

2.6 Notes

- This product supports jQuery UI. However, this does not necessarily indicate that the jQuery and jQuery UI communities support this product.
- The method of reading jQuery UI-related files from the Contents Delivery Network (CDN) is not supported. For details on how to embed these files in the Web application, refer to [2.2 How to Develop an Application Using jQuery Mobile](#).
- Do not change the names of the files provided.
- Do not change the content of the files provided.
- When used with other components of this product, only web browsers or operating systems that have been tested to confirm the behavior of the component should be used.
- Because of the jQuery UI specification, the elements that are displayed may be different depending on which platform (PC, operating system, web browser) is used.
- Incompatibility may occur in the next version.

2.7 Restrictions

J2EE components cannot be used.

2.8 Messages

No message is output when jQuery UI is used.

2.9 jQuery License Terms

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