Quick answers to common problems

Kendo UI Cookbook

Over 50 recipes to help you rapidly build rich and dynamic user interfaces for web and mobile platforms

Sagar Ganatra

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community experience distilled

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BIRMINGHAM - MUMBAI

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I dedicate this book to my extraordinary parents, Tara Ganatra and Harshad Rai Ganatra, two of the greatest and wisest teachers in my life.

I also dedicate this book to my brother, Santosh Ganatra, and sister-in-law, Nisha Ganatra, for always standing by my side and encouraging me to write this book.

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I would like to thank my beautiful wife, Len, for supporting me in reviewing this book, along with everything else I do.

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I would like to thank my wife, Anu, for her support and encouragement over the past 12 years. I would also like to mention my daughter, Rewa, who at seven years of age, has already started coding and keeps me on my toes with her programming questions.

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Preface

Kendo UI is an HTML- and jQuery-based client-side framework that enables you to build web applications for the web and mobile platforms. The library contains a multitude of widgets that can be configured with ease to build applications rapidly. In addition to the widgets for the web and mobile platforms, the library provides numerous data-visualization components that allow you to build complex charts, diagrams, interactive maps, and barcode and QR code generators.

What this book covers

Chapter 1, The Kendo UI Application Framework, introduces you to the core components in the framework, such as client-side templates, using the Model View ViewModel (MVVM) pattern, and using the built-in validator to validate form fields.

Chapter 2, The Kendo UI Grid, introduces you to the Grid component that is used to display data in a tabular format and includes various features such as sorting based on the selected column, filtering data that match certain criteria, and updating data.

Chapter 3, Kendo UI TreeView, introduces you to the TreeView widget that is used to display hierarchical data such as a directory structure. The widget can be customized by prefixing the components in TreeView with a checkbox or representing them with a prefixed image.

Chapter 4, Kendo UI Editor, introduces you to the Editor widget that allows you to create a What You See Is What You Get (WYSIWYG) interface. This interface contains a number of tools that can be added to the toolset bar.

Chapter 5, Kendo UI PanelBar, introduces you to the PanelBar component that is used to construct an accordion-like layout. This layout allows you to group data and stack them vertically.

Chapter 6, Kendo UI File Uploader, introduces you to the Upload widget that allows you to upload multiple files to the server and track the progress of the same. It provides a consistent interface for all browsers.

Chapter 7, Kendo UI Window, introduces you to the Window widget that is used to create pop-up windows or modal windows to display alert messages.

Chapter 8, Kendo UI Mobile Framework, introduces you to the mobile framework, which includes core mobile components used in building a mobile application. This also includes creating layouts and views, navigating through views, and adding touch events.

Chapter 9, Kendo UI Mobile Widgets, introduces you to the mobile widgets in the Kendo UI Mobile library. These widgets allow you to build mobile applications quickly. This includes the use of widgets such as ListView, ActionSheet, TabStrip, and SplitView for tablet applications.

Chapter 10, Kendo UI DataViz, introduces you to the basic data visualization components that allow you to create interactive charts easily. These components can also be customized to match the desired look and feel.

Chapter 11, Kendo UI DataViz – Advance Charting, introduces you to the advanced data visualization components that allow you to build dashboard-like applications with ease. This includes creating a Stock chart, creating a radial and linear gauge, generating barcode and QR code, creating flowchart-like diagrams, creating diagrams to represent a hierarchical structure, and creating maps to display geospatial data.

What you need for this book

This book includes numerous recipes on building applications using web, mobile, and data visualization components. You are required to download the Kendo UI framework from `www.kendoui.com`. The library has a dependency on the jQuery framework and therefore should be loaded before including the Kendo UI library.

Basic knowledge of building web applications using HTML, CSS, and JavaScript is required. It will be helpful if you have used jQuery in your projects.

Who this book is for

This book will do wonders for web developers who have knowledge of HTML and JavaScript and want to polish their skills in building applications using the Kendo UI library.

The library provides web, mobile, and data visualization widgets that can be configured easily to match the needs of the application.

Conventions

In this book, you will find a number of styles of text that distinguish between different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text, database table names, folder names, filenames, file extensions, pathnames, dummy URLs, user input, and Twitter handles are shown as follows: "The Kendo UI library exports an object, `kendo`, which is a namespace for various other objects and functions."

A block of code is set as follows:

```
var template = kendo.template("Full Name: " +
                              "<span> #= lastName # </span>," +

                              "<span> #= firstName # </span>");
```

When we wish to draw your attention to a particular part of a code block, the relevant lines or items are set in bold:

```
<div
  data-role="view"
  data-layout="defaultLayout">
  <div
    id="touchSurface"
    data-role="touch"
    data-enable-swipe="1"
    data-touchstart="touchstart"
    data-swipe="swipe"
    data-tap="tap"
    data-doubletap="doubletap"
    data-hold="hold"
    style="height: 200px;">

    Touch Surface

  </div>
</div>
```

Any command-line input or output is written as follows:

```
Directory1 is checked: no
```

New terms and **important words** are shown in bold. Words that you see on the screen, in menus or dialog boxes for example, appear in the text like this: "For example, if the first name is not specified, the message would be **First Name is required**."

Warnings or important notes appear in a box like this.

Tips and tricks appear like this.

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