

Sudheer Jonna, Oleg Varaksin

Foreword by **Cagatay Civici**
Founder and Creator of PrimeNG

Angular UI Development with PrimeNG

Build rich and compelling Angular web applications
using PrimeNG



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Angular UI Development with PrimeNG

PrimeNG is a leading and rapidly evolving UI component library for Angular applications with 80+ rich components. In comparison with competitors, PrimeNG was created with enterprise applications in mind. This book provides a head start to help readers develop single-page applications using the popular development stack.

This book consists of 10 chapters and starts with TypeScript and Angular fundamentals that are important for subsequent topics. Later, we discuss how to set up and configure a PrimeNG application in different ways. Once the environment is ready, theming concepts and responsive layouts will be explained. Readers will learn about enhanced input, select, and button components, followed by the various panels and menu components. An extra chapter demonstrates how to create map and chart components for real-world applications. Apart from standard features, the readers will learn how to customize components to meet their requirements.

At the end of this book, the readers will know the ins and outs of how to use PrimeNG library and will be ready to create complex Angular applications using its rich component set.

Things you will learn:

- Setup PrimeNG projects with SystemJS, Webpack, and Angular CLI
- Use theming concepts and layouts with grid systems and Bootstrap
- Work with enhanced input, select, button, and panel components
- Apply countless DataTable features: sorting, filtering, grouping, and templating
- Meet data iteration components: DataList, DataGrid, Tree, and so on
- Build endless menu variations: SlideMenu, TieredMenu, MegaMenu, and so on
- Visualize your data representations with PrimeNG charts and GMap components
- Adopt best practices such as state management with @ngrx/store
- Write unit and end-to-end tests with Jasmine, Karma, and Protractor

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AngularUI Developer's Primer with MVC

Sudheer Jonna, Oleg Varaksin



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Sudheer Jonna
Oleg Varaksin



BIRMINGHAM - MUMBAI

Angular UI Development with PrimeNG

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Foreword

Angular is a sophisticated technology that aims to create a framework with multi-platform support, including web, mobile and desktop. When I heard the news about Angular 1 being rewritten for Angular 2, I got excited instantly, since it was an opportunity for us to develop a UI component suite that I was pretty sure would be a success similar to its predecessor.

Then at the beginning of 2016, with the early alpha releases of Angular, we started working on PrimeNG to bring our years of expertise in PrimeFaces, the most popular UI framework for JavaServer Faces to Angular. Initially, we hit some roadblocks in the technology that prevented us from developing what we had in mind; however, all of those were temporary and the more we worked with Angular, the more we started to realize its true potential. From the perspective of a UI component library, Angular gives us all the APIs we need to develop easy to use, customizable, and accessible components easily.

Currently, PrimeNG is the most complete UI solution for Angular web development, with over 70+ high quality components and over a hundred thousand download per month. PrimeNG aims to solve complex enterprise requirements and as a result, its feature set is way beyond other UI libraries. As with all other PrimeTek libraries, PrimeNG is open source under the MIT license, which enables us to combine the power of the open source community with professional services and add-ons.

The standard documentation along with the showcase are the core resources for PrimeNG; however, there are many cases that cannot be covered in the documentation, and *Angular UI Development with PrimeNG* fills this gap and offers practical examples to serve as a companion to enhance your PrimeNG experience. I have known the authors, Oleg and Sudheer, for a long time and they have years of expertise in Prime projects, such as PrimeFaces before, and now PrimeNG. Their extensive knowledge of PrimeNG that is documented in this book is the best complementary PrimeNG resource available.

Overall, Angular and PrimeNG are a great duo for any type of Angular web application and considering the fact that both are developed with high pace, we can expect greater benefits in the future.

Cagatay Civici

Founder and Creator of PrimeNG

About the Authors

Sudheer Jonna was born in Nellore, India. Currently, he works as a senior software engineer in Singapore. He completed his master's degree in computer applications from JNTU University. In the past few years, he has worked on building various Java and JavaScript web applications based on JSF, PrimeFaces, Struts, Spring, REST, jQuery, Angular, React, and VueJS. He has also worked on many JavaEE and API development technologies, such as JPA (Hibernate), EJB, GraphQL, and Sequelize.

He is the founder of GeekoTek company (<http://geekotek.com>) and is a longtime JSF and Prime products expert. He is also a project member of the PrimeFaces, PrimeFaces Extensions, and PrimeNG open source projects. He is the author of three other Packt books, titled *Learning PrimeFaces Extension Development*, *PrimeFaces BluePrints*, and *PrimeFaces Theme Development*. He has worked as a technical reviewer on a few books. He is a regular speaker, trainer, reviewer, blogger, organizer, and active member of public forums. He is interested in R&D on the latest technologies.

He shares his knowledge through his personal website, <http://sudheerjonna.com>. You can follow him on Twitter with the handle @SudheerJonna.

Oleg Varaksin is a senior software engineer living in the Black Forest, Germany. He is a graduate computer scientist who studied informatics at Russian and German universities. His main occupation and "daily bread" in the last few years has consisted of building various Java-and JavaScript-based web applications based on JSF, PrimeFaces, Spring, REST, JavaScript, jQuery, Angular, and HTML5. Currently, he is working at Swiss Federal Railways on a new ticket webshop.

Oleg is an experienced and passionate web developer and has been working with the Prime UI libraries from the beginning. He is also a well-known member of the PrimeFaces community, creator of the PrimeFaces Extensions project, and the author of the *PrimeFaces Cookbook*. Oleg loves JavaScript, new ECMAScript standards, TypeScript, Angular, PrimeNG, RxJS, and Redux architecture. He has a deep understanding of web usability and accessibility.

Oleg normally shares the knowledge he has acquired on his blog at <https://medium.com/@OlegVaraksin>. His Twitter handle is @OlegVaraksin.

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He is the CEO of Javscz Software Developers and has reviewed a number of books, such as *PrimeFaces Blueprints*, *Apache Hive Cookbook*, *Dart By Example*, and *Express.js Blueprints*, all by Packt.

I want to thank my parents and brothers for their unconditional support (Nivia, Aristides, Secundino, Victor).

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