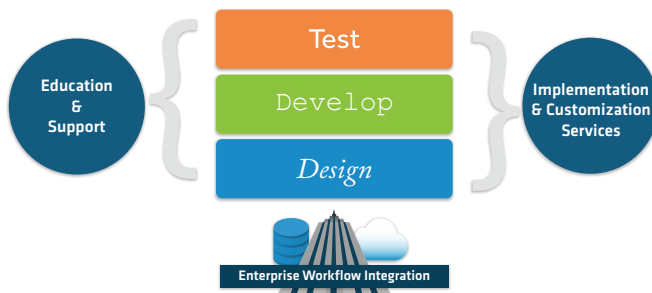# Sencha Web Application Development Platform

Businesses are under more pressure than ever to deliver sophisticated web applications to their customers as quickly as possible. These applications are expected to be high quality, visually compelling and run on multiple devices including desktops, tablets, and smartphones.

The Sencha Mission

Our mission is to help organizations deliver the right experience on the right screen at the right time. To deliver on this mission, we've created the Sencha Web Application Development Platform for theming, prototyping, designing, developing, debugging, and testing cross-platform web applications.

Design

Delivering great web applications to market starts with enabling designers and developers to collaborate and create visually compelling web applications. To make that process easier, we've created Ext JS Stencils which allows designers to quickly create mockups and wireframes that match the UI components available in Ext JS – without writing a single line of code. Stencils can be used with the most popular tools including Adobe Illustrator, Sketch, Balsamiq, and Omnigraffle.

Develop

It's critical for developers to reduce time to market and deliver high-quality products. We provide a comprehensive JavaScript framework, Ext JS, that teams can use to build cross-platform web applications. We also provide Sencha GXT for developing web applications in Java.

Sencha Ext JS

For developers who want to use HTML5, CSS, and JavaScript, there is no better choice than Ext JS. It comes with everything a developer needs to create a complex web application. Plus from a single code base, developers can create applications that run on desktops, across both legacy and modern browsers, tablets and smartphones. Key features and capabilities include:

- High-performance customizable components such as HTML5 grids, trees, lists, forms, and much more

- Back-end agnostic data package so apps can be connected to any back-end system

- Application templates that help developers get a jump on building apps, and the layout manager that gives complete control over the display regardless of device and screen size

- Advanced theming to adjust the look and feel of applications or create custom branding

- Accessibility package to help with ARIA Section 508 compliance

- Advanced charting that allows developers to present data in line, bar, pie charts, and more

- Pivot Grid data analytics that enables users to aggregate large and complex data sets within their web application

- Plugins for JetBrains, Visual Studio, Eclipse, and Visual Studio Code that improve developer productivity

- Sencha Inspector that provides advanced debugging capabilities for applications built using Sencha frameworks

- Sencha Cmd, which optimizes production builds, and provides scaffolding options, code minification, and more

- Sencha Architect, which provides a visual application builder and a theme generator, enables users to develop applications without writing code, and automatically generates code following best practices

Sencha GXT

GXT is the most comprehensive Java-based framework for building feature-rich web applications. It uses the GWT (formerly Google Web Toolkit) compiler, allowing developers to write applications in Java and compile code into highly optimized cross-platform HTML5 code. Key features and capabilities include:

- High-performance UI components which are interoperable with native GWT components

- Layout manager which gives complete control over the display – across device types

- Advanced charting which allows users to visualize large quantities of data

- Built-in support for RPC, RequestFactory, and JSON, so developers can feed data to applications using any back-end data source

- Theming support, allowing developers to build web applications that reflect company branding guidelines

Test

Software quality has a tremendous impact on customer satisfaction, yet testing cycles are often compressed because of pressure to get products to market quickly. Sencha Test enables organizations to accelerate testing efforts without sacrificing quality.

Sencha Test

Sencha Test is the most comprehensive unit and functional testing solution for Ext JS apps. Based on years of testing Ext JS applications, Sencha Test helps teams create unit and end-to-end functional tests quickly, and execute them on multiple browsers simultaneously. Sencha Test is the only dedicated testing solution for Ext JS applications and its deep integration with the framework makes it easy to write robust tests. It leverages the powerful Jasmine framework, so tests can be written in JavaScript. Key features and capabilities include:

- Test authoring makes it easy to write unit and functional tests, create tests in the built-in test editor or in a separate IDE, and store tests in an SCM system

- Event recorder allows developers to automatically grab events while interacting with the system under test rather than trying to code interactions

- Test execution lets developers run selected tests on any or all browsers, on a local machine, or browser farm

- Test automation ensures maximum testing efficiency by launching tests within a CI system such as TeamCity and Jenkins

- Test results are displayed from automated and manual test runs, integrated with Istanbul

- Visual screen comparison minimizes time spent verifying images on hundreds of screens

An Open Platform

We provide an open platform that integrates into existing IT environments and works with existing back-end systems. The Sencha Platform can be adopted in a modular fashion, so organizations can select the best frameworks and tools for their needs.

Services and Training

The Sencha Platform is backed by expert support and services that round out the solution. Our dedicated team of engineers and consultants provide deep technical training, customized implementation, technical support, and professional services.

Support

Sencha experts are here to answer questions and help keep projects on track. We provide remote troubleshooting, free upgrades to the next major release, nightly access to bug fixes, and more.

About Sencha

More than 10,000 customers and 60% of the Fortune 100 rely on Sencha to deliver innovative applications that drive their business. The Sencha Web Application Development Platform uses the power of modern web technology to empower the enterprise to seamlessly design, develop and test, cross-platform web applications that deliver the right end user experience on the right screen at the right time.