**Technical Stack Description**

Note: Technologies shaded in Green were interpreted as “Modern” by the Ventera team**.**

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| **Technology** | **Purpose** | **1st Stable Release date** |
| Eclipse LUNA | Eclipse Luna includes official support for Java 8 in the Java development tools, Plug-in Development Tools, Maven integration and GitHub integration. (<https://www.eclipse.org/luna/>) | 6-24-2014 |
| GitHub | Code and documentation repository  (<https://github.com/>) | 4-10-2008 |
| HTML5 | HTML 5 is a revision of the Hypertext Markup Language (HTML), the standard programming language for describing the contents and appearance of Web pages with support for multimedia on mobile devices. | 10-28-2014 |
| jQuery | jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers  (<https://jquery.com/>) | August 2006 |
| angularJS | AngularJS is a lightweight JavaScript based framework that extends the HTML vocabulary for quick and easy development. (<https://angularjs.org/>) | 2012 |
| Bootstrap | Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web. (<http://getbootstrap.com/>) | 8-19-2011 |
| NodeJS | Node.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network application. It runs on Google/Chrome's V8 engine. (<https://nodejs.org/>) | 5-23-2015 |
| Karma-Jasmine | Karma is a JavaScript command line tool that can be used to spawn a web server which loads your application's source code and executes your tests. (<https://www.npmjs.com/package/karma>) | 9-4-2010 |
| TestNG | TestNG is a testing framework inspired from JUnit and NUnit with some new functionalities that make it more powerful and easier to use. TestNG is designed to cover all categories of tests that include unit, functional, end-to-end, integration (<http://testng.org/doc/index.html>) |  |
| Maven | Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.( <https://maven.apache.org/>) | 2004 |
| JMeter | The Apache JMeter™ application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance (<http://jmeter.apache.org/>) |  |
| Selenium WebDriver | WebDriver is a tool for writing automated tests of websites. It aims to mimic the behavior of a real user, and as such interacts with the HTML of the application. (<http://www.seleniumhq.org/projects/webdriver/>) | 2012 |
| Jenkins | Jenkins CI is the leading open-source continuous integration server (<https://jenkins-ci.org/>) | 2-2-2011 (2011-02-02) |
| Apache HTTP server | web server software (<http://httpd.apache.org/>) | 1995 |
| Monit | Easy, proactive monitoring of Unix systems, network and cloud services (<https://mmonit.com/>) |  |
| AWS EC2 Server Instances running Ubuntu 14.04 LTS | Lean, fast and powerful, Ubuntu Server delivers that services reliably, predictably and economically. |  |
| AWS EC2 Elastic Load Balancers and Auto Scaling Groups | Elastic Load Balancing automatically distributes incoming application traffic across multiple Amazon EC2 instances. | 08-23-2006 |
| Amazon CloudWatch Monitoring | Amazon CloudWatch is a monitoring service for AWS cloud resources and the applications you run on AWS (<http://aws.amazon.com/cloudwatch/>) | 12-2-2010 |
| AWS Route53 | Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. | 10-1-2010 |
| Docker | Docker is an open-source project that automates the deployment of applications inside software containers, by providing an additional layer of abstraction and automation of operating-system-level virtualization on Linux (<https://www.docker.com/>) | 3-13-2013 |
| PhantomJS | PhantomJS is a scripted, headless browser used for automating web page interaction (<http://phantomjs.org/> | 1-17-2011 |