# Form Builder Development Environment

The purpose of this document is to enable you to build a Form Builder development environment.

## Dependencies

The software is entirely written in HTML5 and JavaScript. It uses Node.js and Grunt for build workflow. The build dependencies are as follows:

* [Node.js](http://nodejs.org/)
* Node npm packages
  + [Grunt](http://gruntjs.com/) Build manager and task runner
  + [grunt-bake](https://github.com/MathiasPaumgarten/grunt-bake) Similar to ‘include’; injects blocks of html
  + [grunt-contrib-clean](https://github.com/gruntjs/grunt-contrib-clean) Delete files and folders
  + [grunt-contrib-compress](https://github.com/gruntjs/grunt-contrib-compress) Zips the release version
  + [grunt-contrib-concat](https://github.com/gruntjs/grunt-contrib-concat) Combines js files (prior to minification)
  + [grunt-contrib-copy](https://github.com/gruntjs/grunt-contrib-copy) Copies files and folders to destinations
  + [grunt-contrib-uglify](https://github.com/gruntjs/grunt-contrib-uglify) Minifies js
  + [grunt-contrib-watch](https://github.com/gruntjs/grunt-contrib-watch) Monitors for continuous build
  + [grunt-css](https://www.npmjs.org/package/grunt-css) Minification for CSS
  + [grunt-filerev](https://github.com/yeoman/grunt-filerev) Creates unique file revision text for cache busting

The application relies upon a number of open source libraries as follows:

* Assets (libraries combining js, css, images, fonts or additional files)
  + [Bootstrap 3.2.0](http://getbootstrap.com/) Design framework, used for FB itself
  + [Bootstrap Datepicker](https://github.com/eternicode/bootstrap-datepicker) Datepicker library
  + [Parsley.js](http://parsleyjs.org/) Form validation library
  + [DataTables](http://www.datatables.net/)[[1]](#footnote-1) Table handler library
  + [Summernote](http://hackerwins.github.io/summernote/) HTML editor
  + [Ace](http://ace.c9.io/) Code editor
  + [Font Awesome](http://fortawesome.github.io/Font-Awesome/) Font icons for FB ui
* Libs
  + [jQuery 1.11.1](http://jquery.com/)
  + [jQuery UI (custom build)](http://jqueryui.com/) Sortable and animations
  + [Handlebars](http://handlebarsjs.com/) Templating engine
  + [Bootbox](http://bootboxjs.com/) Generates bootstrap modals for alert, confirm and dialogs
  + jQuery.format Format text as xml or json (file export)

## Source Code

Xxx

Install Node.js, grunt and grunt-cli

Clone repo

Run update.bat

Install any missing packages

1. With Bootstrap 3 custom code. [↑](#footnote-ref-1)