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# Frontend Workflow Automation

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# Overview

## Things can be used in Frontend Workflow and Automation

- Yeoman
- Bower
- Gulp

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# Steps involve in Front-end Development

Design Review

Raising Queries

Effort Estimate Creation

Theme Setup

- Global media files setup ( folder structure, reset css and sass files etc.)
- Ruby - Sass compilation
- Media Files (images, Js, CSS, Fonts)
- Icomoon and Font Awesome for Icons implementation

Git Bash for Git

Code Review & Unit Testing

*\*Note: For Design Review, Raising Queries and Effort Estimate Creation no need of tools.*

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# Theme Setup

For theme setup **Yeoman Scaffolding Tool** can be used.

## Yeoman

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Yeoman helps you to kickstart new projects, prescribing best practices and tools to help you stay productive. To do so, Yeoman provides a generator ecosystem. A generator is basically a plugin that can be run with the `yo` command to scaffold complete projects or useful parts. With that Yeoman also provides preinstall Built tool like Bower and Task Runner Like Gulp/Grunt in Projects.

Few Useful generators are as follows **generator-magento, generator-drupal, generator-webapp**

Yeoman is best for angular, bootstrap, foundation based projects.

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# Global Media Files Setup

For media files and plugin setup **Bower** can be used.

## **Bower**

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Keeping track of all these packages and making sure they are up to date (or set to the specific versions you need) is tricky. Bower to the rescue! Bower can manage components that contain HTML, CSS, JavaScript, fonts or even image files. Bower doesn't concatenate or minify code or do anything else - it just installs the right versions of the packages you need and their dependencies.

Few Useful packages are as follows **jQuery, Slick slider, mCustom scrollbar, Tab content, Accordion, mMenu, Draggable**

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# For other steps

For other steps **Gulp Task Manager** can be used.

## Gulp

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Gulp is a toolkit that helps you automate painful or time-consuming tasks in your development workflow.

Few Useful plugins are as follows

- Convert sass to css : gulp-scss
  - To track scss : gulp-sourcemaps
  - To continue scss file conversion : gulp-watch
  - To prevent errors from stopping gulp watch: gulp-plumber
  - To live reload: gulp-livereload To sync with browser: browsersync
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# For other steps

## Gulp

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Few Useful plugins are as follows

- To sync with browser: browsersync
  - To add css prefix: gulp-autoprefixer
  - To minify js: gulp-uglify
  - To concat js files: gulp-concat
  - To minify CSS: gulp-uglifycss
  - To concat CSS: gulp-concat-css
  - To minify HTML: gulp-minify-html
  - To optimize Images: gulp-imagemin
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# Code Review and Validator

Few Useful plugins are as follows

- To validate HTML: gulp-html-validator, gulp-htmlhint
- To validate CSS: gulp-csslint, gulp-csshint
- To validate JS: gulp-JSLint, gulp-JShint
- To validate scss: gulp-scss-lint

## Git using gulp

Few Useful plugins are as follows

- To use git: gulp-git
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