# How to contribute to Jasonette

## \*\*Want to help with documentation?\*\*

If you would like to contribute to the [documentation](https://jasonette.github.io/documentation/), let's discuss on the [documentation repository](https://github.com/Jasonette/documentation/issues).

## \*\*Do you have a bug report or a feature request?\*\*

\* \*\*Ensure the bug was not already reported\*\* by searching on GitHub under [Issues](https://github.com/Jasonette/JASONETTE-iOS/issues).

\* If you're unable to find an open issue addressing the problem, [open a new one](https://github.com/Jasonette/JASONETTE-iOS/issues/new). Be sure to include a \*\*title and clear description\*\*, as much relevant information as possible, and a \*\*code sample\*\* or an \*\*executable test case\*\* demonstrating the expected behavior that is not occurring.

## \*\*Did you write a patch that fixes a bug?\*\*

\* Open a new GitHub pull request with the patch.

\* Don't fork `master` branch. \*\*Fork `develop` branch and send a pull request to `develop`.

\* Ensure the PR description clearly describes the problem and solution. Include the relevant issue number if applicable.

## \*\*Did you write a cool extension?\*\*

Feel free to fork the project and [write your own extension](https://jasonette.github.io/documentation/advanced)

If you wrote a cool extension, please share it with the community in the [slack channel](https://jasonette.now.sh).

## \*\*Do you have other types of questions?\*\*

\* Ask any question about how to use Jasonette on the [Jasonette Slack channel](https://jasonette.now.sh).

## \*\*Project Structure\*\*

### Class hierarchy

![hierarchy](https://raw.githubusercontent.com/gliechtenstein/images/master/hierarchy.png)

Here's a brief walkthrough of how the project is structured:

- \*\*Launcher\*\*: You can ignore this, just some files that launches the app.

- \*\*Config\*\*: Normally these are the only files you will ever need to touch.

- `Info.plist`: App setting. Normally don't need to touch this unless you're manually setting up stuff.

- `settings.plist`: \*\*This is the only file you will ever need to change.\*\* Set the `url` attribute to embed that URL into the app.

- \*\*Core\*\*: Core logic that handles command processing (via stack, memory, etc.), view construction, templating, and some native system actions.

- `Jason`: The brain of Jasonette. Everything revolves around this class. Makes use of JasonStack and JasonMemory for remembering and executing actions.

- `JasonStack`: Stack for remembering instructions (actions).

- `JasonMemory`: Used to store actions to be executed, through stack (JasonStack) and register.

- `JasonParser`: Parser module that calls the `Core/Lib/parser.js` file for parsing json templates.

- `RussianDollView`: A JasonViewController protocol, you can ignore this.

- \*\*Assets\*\*: You can ignore this, just some images and audio clips used by the app

- \*\*Lib\*\*: Includes Javascript libraries used to execute JSON native actions.

- `parser.js`: The main JSON parser that takes a JSON template expression and generates a final static JSON using the current register value

- `csv.js`: CSV parser

- `rss.js`: RSS parser

- \*\*Action\*\*: Where all [actions](https://jasonette.github.io/documentation/actions/) are implemented. The implementation follows [the convention described here](https://jasonette.github.io/documentation/advanced/#2-extend-actions).

- To build your own action extension, you can create your own custom group here and implement your own classes.

- \*\*View\*\*: All view related classes.

- `JasonViewController`: The main JSON-powered view controller. Everything view-related revolves around this class.

- \*\*Layer\*\*: Implements [layers](https://jasonette.github.io/documentation/document/#bodylayers)

- \*\*Section\*\*: Implements [sections](https://jasonette.github.io/documentation/document/#bodysections)

- \*\*Layout\*\*: Implements [vertical and horizontal layouts](https://jasonette.github.io/documentation/layout/) that can be used inside [sections](https://jasonette.github.io/documentation/document/#bodysections)

- \*\*Component\*\*: Implements [components](https://jasonette.github.io/documentation/components/), following [the convention described here](https://jasonette.github.io/documentation/advanced/#1-extend-ui-components).

- To build your own component extension, just create your own group here and write your classes.

- \*\*Helper\*\*

- Various helper class methods used across various classes.

### What files you will be touching

####User

In most cases, the only thing you will ever need to touch is the `Config/settings.plist` file. This is where you set the main url your app will launch from.

- But even this can be automatically done using the [Setup command](https://jasonette.github.io/documentation/#step-2-setup), which means \*\*you will never need to touch anything inside XCode\*\* to build an app.

####Advanced

Sometimes you may want to write an [extension](https://jasonette.github.io/documentation/advanced/#extension). In this case you may need to deal with:

- `Action`: To write action extension

- `View/Component`: To write UI component extension

####Guru

If you find a bug \*\*anywhere in the code\*\*, or have any improvements anywhere else, please feel free to:

1. Fork the `develop` branch

2. Create a feature branch

3. Fix

4. Send a pull request