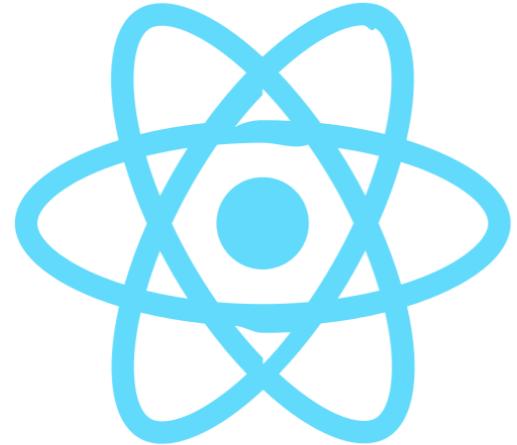


# WordPress React Integration Real Estate Chatbot concept

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Code snippets of React WordPress Integration



Front End Developers Used

▼ 60%



127k+

Github Stars



## REACT

JavaScript library for building user interfaces developed by Facebook



## WORDPRESS

WordPress is a free and open-source content management system based on PHP & MySQL



Websites using WordPress

▼ 50%

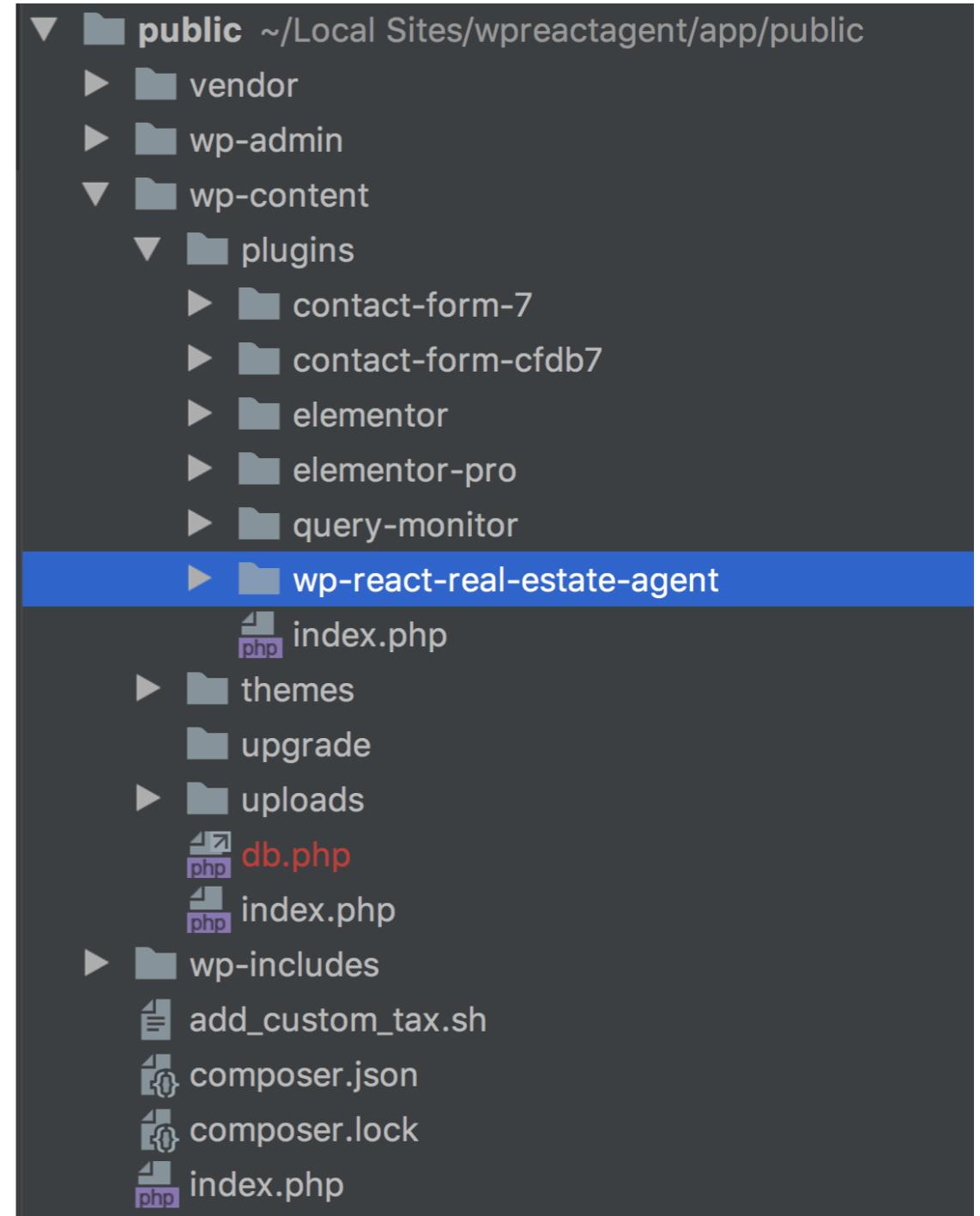


# WordPress Plugin

```
react-wp-real-estate-agent.php ×

1 <?php
2 /**
3  * Plugin Name: React Wp Real Estate Agent
4  * Plugin URI: https://github.com/BenBroide/wp-react-real-estate-agent
5  * Description: WordPress React Real Estate Agent
6  * Author: Ben Broide
7  * Author URI: https://benbroide.com
8  * Text Domain: react-wp-real-estate-agent
9  * Domain Path: /languages
10 * Version: 0.1.0
11 *
12 * @package React_Wp_Real_Estate_Agent
13 */
```

# WordPress Files Structure



# Data flow MODEL

Dataflow between WordPress and React App

## STEP 01



### Data for React App - html

WordPress prints in front end html Javascript variable with data for the React App

## STEP 02



### React app

Process data, render App in front end

## STEP 03



### React to WP Backend

React App sends the data via Ajax to WordPress backend

## STEP 04



### Wp to React

React processes Ajax response from WordPress backend

# STEP 01

Data from WP backend to react

1

## WordPress plugin code

Print in front end HTML a Javascript variable with data for React App.

```
wp_localize_script( handle: 'wp-react-agent', object_name: 'bot_data',
[
  'listing_category' => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'listing_category' ] ),
  'amenities'           => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'amenities' ] ),
  'area'                => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'area' ] ),
  'ajax_url'            => admin_url( 'admin-ajax.php' ),
  'images_path'         => plugin_dir_url( file: __FILE__ ) . 'assets/images/'
];
);
```

# 2

## HTML source code with Javascript variable

```
55 <script type='text/javascript'>
56 /* <![CDATA[ */
57 var bot_data = {"listing_category": [{"term_id":44,"name":"1 Bedrrom","slug":"1-
bedrrom","term_group":0,"term_taxonomy_id":44,"taxonomy":"listing_category","des
cription":"","parent":0,"count":0,"filter":"raw"}, {"term_id":45,"name":"2
Bedrroms","slug":"2-
bedrroms","term_group":0,"term_taxonomy_id":45,"taxonomy":"listing_category","de
scription":"","parent":0,"count":0,"filter":"raw"}, {"term_id":46,"name":"3
Bedrroms","slug":"3-
bedrroms","term_group":0,"term_taxonomy_id":46,"taxonomy":"listing_category","de
scription":"","parent":0,"count":0,"filter":"raw"}, {"term_id":47,"name":"4
Bedrroms","slug":"4-
bedrroms","term_group":0,"term_taxonomy_id":47,"taxonomy":"listing_category","de
scription":"","parent":0,"count":0,"filter":"raw"}, {""+term_id":43,"name":"Studio","slug":"studio","term_group":0,"term_taxonomy_id":43,"description":"","parent":0,"count":0,"filter":"raw"}]
```

# 3

## Use variable data in React App

```
\`type: windowbot_data : undefined \`  
var bot_data = window.bot_data;  
var data;  
const categories = bot_data.listing_category.map( category => category.name );  
const amenities = bot_data.amenities.map( callbackfn: category => category.name );  
const areas = bot_data.area.map( category => category.name );  
  
data = {  
  categories: categories,  
  amenities: amenities,  
  areas: areas  
};
```

# STEP 02

Data from React App to  
WordPress backend

1

## WordPress plugin code

Listen to Http call to "admin-ajax"

```
function get_lead() {
    $post_id = RWRE_save_lead();
    echo json_encode( ['post_id' => $post_id] );
    wp_die();
}

add_action( 'wp_ajax_get_lead', 'get_lead' );
add_action( 'wp_ajax_nopriv_get_lead', 'get_lead' );
```

# 2

## Request / Response in browser

Filter Hide data URLs All XHR JS CSS Img Media

Name
admin-ajax.php /wp-admin

x-requested-with: XMLHttpRequest

Headers Preview Response Cookies Tools

Form Data view source view URL encoded

- action: get\_lead
- selections[post\_id]: 0
- selections[categories][0]: 2 Bedrooms
- selections[areas][0]: Downtown
- selections[areas][1]: Downtown,
- selections[amenities][0]: Rooftop
- selections[amenities][1]: amenities
- selections[amenities][2]: Doorman
- selections[listings][0]: 2
- selections[dates][endDate]: 2019-05-31
- selections[dates][startDate]: 2019-05-01
- message: Jack 2323234234234

1 / 23 requests | 427 B / 21

Filter Hide data URLs All XHR JS CSS Img Media

Name
admin-ajax.php /wp-admin

Headers Preview Response Cookies

{post\_id: 61}  
post\_id: 61

# 3

## React App Request / Response

```
window.jQuery.post(bot_data.ajax_url, data, (response) => {
  let jsonResponse = JSON.parse( response );
  selections.post_id = jsonResponse.post_id;
  addResponseMessage( getFeedbackString( jsonResponse.post_id ) );
});
```

4

## Chat response

Please leave Name, phone and email and anything else you want us to know about the apartment

Jack 2323234234234

Thanks for your enquiry. We will get back to you as soon as possible. Your reference number #61

Type a message...



# Custom Fields

WordPress which allows users to add additional information when writing a post.

```
function RWRE_save_lead() {
    $selections = $_POST['selections'];
    $message    = $_POST['message'];
    $listing_categories = implode( glue: ',', $selections['categories'] );
    $amenities      = implode( glue: ',', $selections['amenities'] );
    $areas          = implode( glue: ',', $selections['areas'] );
    if ( $selections['post_id'] > 0 ) {
        $post_id      = $selections['post_id'];
        $pre_message   = get_post_meta( $post_id, key: 'message' );
        $updated_message = $pre_message . PHP_EOL . $message;
        update_post_meta( $post_id, meta_key: 'message', $updated_message );
    } else {
        $post_id = wp_insert_post( [
            'post_type'  => 'lead',
            'post_title' => substr( $message, start: 0, length: 40 ),
            'post_content' => $message
        ] );
        update_post_meta( $post_id, meta_key: 'message', $message );
    }
    update_post_meta( $post_id, meta_key: 'listing_categories', $listing_categories );
    update_post_meta( $post_id, meta_key: 'amenities', $amenities );
    update_post_meta( $post_id, meta_key: 'areas', $areas );
    update_post_meta( $post_id, meta_key: 'start_date', $selections['dates']['startDate'] );
    update_post_meta( $post_id, meta_key: 'end_date', $selections['dates']['endDate'] );

    return $post_id;
}
```

## Edit Item [Add New](#)

### Call me 04343243234 mark

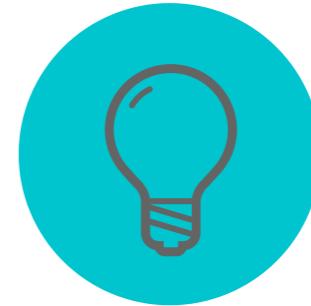
Permalink: <https://wpreactagent.local/lead/call-me-04343243234-mark/> [Edit](#)

#### Custom Fields

Name	Value
amenities	Doorman,Pool
areas	Upper East,Upper West
end_date	2019-06-28
listing_categories	1 Bedrrom,2 Bedrroms
message	Call me 04343243234 mark
start_date	2019-05-01

# Tips

Speed up your WordPress react integration



- WordPress Rest Api
- RCA - Cancel Code Splitting
- WP-Cli
- Local By Flywheel

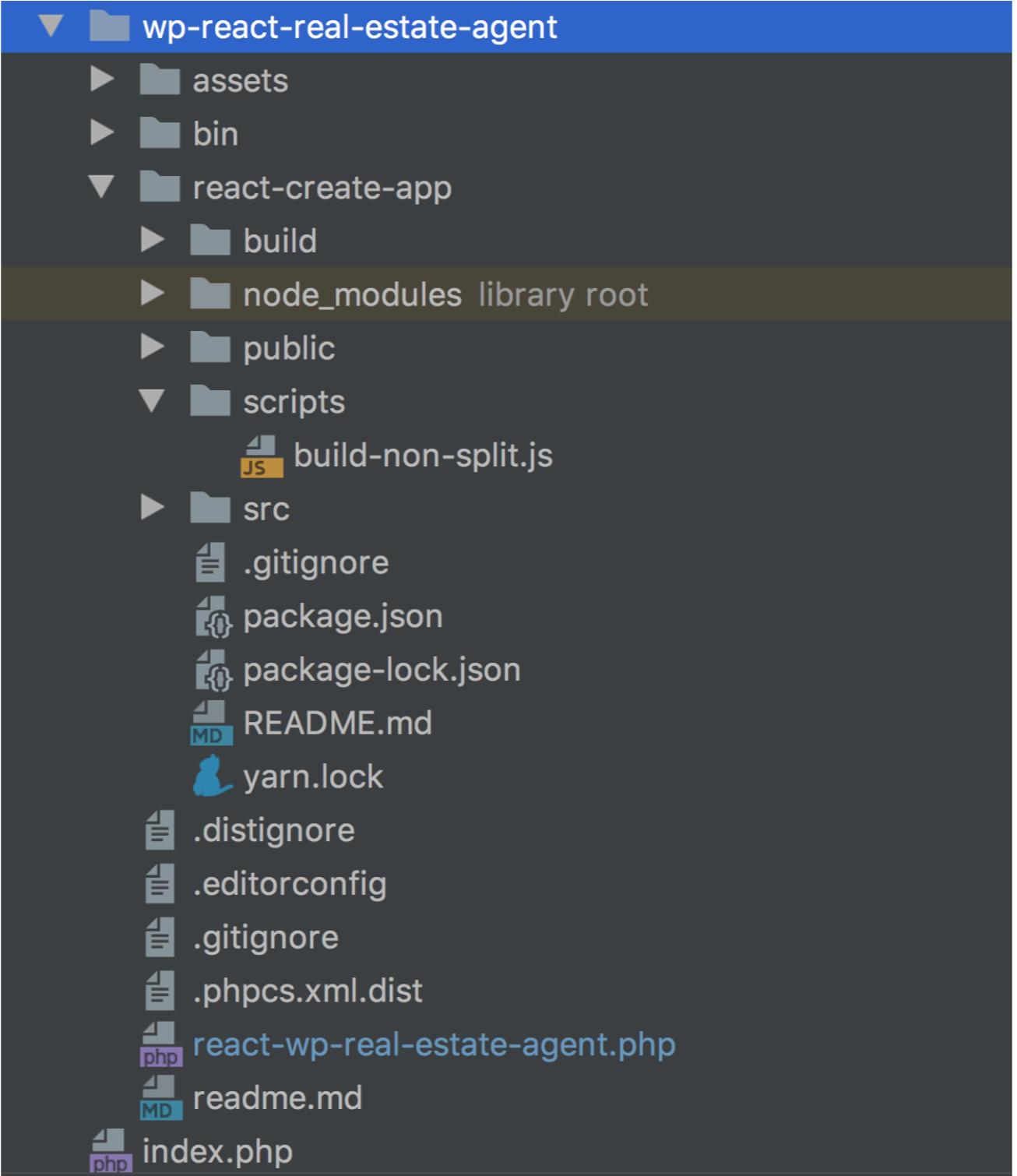
1

## Disable code splitting

<https://github.com/facebook/create-react-app/issues/5306>

```
  "scripts": {  
    "start": "react-scripts start",  
     "build": "node ./scripts/build-non-split.js",|  
    "test": "react-scripts test",  
    "eject": "react-scripts eject",  
    "watch": "npm-watch"  
  },
```

```
1  const rewire = require( id: 'rewire' );
2  const defaults = rewire( filename: 'react-scripts/scripts/build.js' );
3  const config = defaults.__get__('config');
4
5  // Consolidate chunk files instead
6  config.optimization.splitChunks = {
7      cacheGroups: {
8          default: false,
9      },
10 };
11 // Move runtime into bundle instead of separate file
12 config.optimization.runtimeChunk = false;
13
14 // JS
15 config.output.filename = 'static/js/[name].js';
16 // CSS. "5" is MiniCssPlugin
17 config.plugins[5].options.filename = 'static/css/[name].css';
18
```



```
function RWRE_enqueue_scripts_styles() {
    wp_enqueue_style( 'wp-react-agent', plugin_dir_url( __FILE__ ) . 'react-create-app/build/static/css/main.css' );

    wp_enqueue_style( 'override-style', plugin_dir_url( __FILE__ ) . 'assets/css/override-style.css' );

    wp_enqueue_style( 'material-ui', 'https://fonts.googleapis.com/icon?family=Material+Icons' );

    wp_register_script( 'wp-react-agent', plugin_dir_url( __FILE__ ) . 'react-create-app/build/static/js/main.js' );

    wp_localize_script( 'wp-react-agent', 'bot_data',
        [
            'listing_category' => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'listing_category' ] ),
            'amenities'           => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'amenities' ] ),
            'area'                => get_terms( [ 'hide_empty' => false, 'taxonomy' => 'area' ] ),
            'ajax_url'            => admin_url( 'admin-ajax.php' )
        ]
    );
}

wp_enqueue_script( 'wp-react-agent', plugin_dir_url( __FILE__ ) . 'react-create-app/build/static/js/main.js', [], '', true
}

add_action( 'wp_enqueue_scripts', 'RWRE_enqueue_scripts_styles' );
```

2

## WP-Cli command-line interface for WordPress

<https://wp-cli.org/>

[https://gist.github.com/BenBroide/39602755b1b4e7d364297344  
28e6eb71](https://gist.github.com/BenBroide/39602755b1b4e7d36429734428e6eb71)

## add\_custom\_listing\_tax.sh

```
1  #!/bin/bash
2
3  function create_terms( ){
4      array="$@"
5      for tax; do true; done
6      for term in "${array[@]}"
7      do
8
9          wp term create $tax "$term" --allow-root
10     done
11 }
12
13 listing_categories=(
14     "Studio"
15     "1 bedroom"
16     "2 bedrooms"
17     "3 bedrooms"
18     "4 bedrooms"
19 )
20
21 create_terms "${listing_categories[@]}" listing_category
22
```

3

Local by Flywheel

<https://localbyflywheel.com/>



Local Sites

- BARTENDER-WP
- BOOKING-SYSTEM
- CHNY
- GUTENBERG-ADDON
- LARAVEL
- MIMI
- NBA
- NEW-SITE
- POWER-PACK**
- POWERPACKLITE
- REST API VAILDATION
- SITE-TEST
- TRAVEL
- VUE-WP
- WC-EXPORT-CUSTOM
- WP TEST CLI
- WP-REACT-AGENT**

1 site running STOP ALL

Live Link: ENABLE

DEV MODE ON STOP SITE

ADMIN VIEW SITE

wp-react-agent

~/Local Sites/wpreactagent

OVERVIEW DATABASE SSL UTILITIES

Local Environment Preferred 1.3.2 CHANGE

Web Server nginx

PHP Version 7.2.9 ⓘ

MySQL Version 5.7.23

WordPress Version 5.1.1

Site Name wp-react-agent

Site Domain wpreactagent.local CHANGE

Site Path ~/Local Sites/wpreactagent

Multisite No

# THANK YOU!

---

Bot agent plugin in Github:

<https://github.com/BenBroide/wp-react-real-estate-agent>

React Chat Widget:

<https://github.com/Wolox/react-chat-widget>

