Objective

Suppose we want to create a react plugin for Word Press

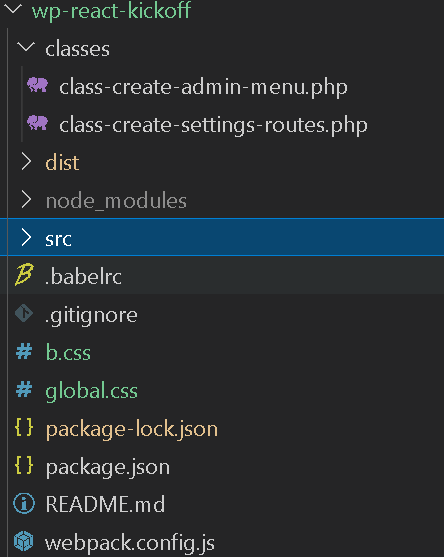
Our example will work on:

1. For any API
2. Will fetch data and will show on any page of Word Press

**Tutorial Type: Very basic**

Word press Reacts

Folder structure



class-create-admin-menu.php

<?php

/\*\*

 \* This file will create admin menu page.

 \*/

class WPRK\_Create\_Admin\_Page {

    public function \_\_construct() {

        add\_action( 'admin\_menu', [ $this, 'create\_admin\_menu' ] );

    }

    public function create\_admin\_menu() {

        $capability = 'manage\_options';

        $slug = 'wprk-settings';

        add\_menu\_page(

            \_\_( 'WP React KickOff', 'wp-react-kickoff' ),

            \_\_( 'WP React KickOff', 'wp-react-kickoff' ),

            $capability,

            $slug,

            [ $this, 'menu\_page\_template' ],

            'dashicons-buddicons-replies'

        );

    }

    public function menu\_page\_template() {

        echo '<div class="wrap"><div id="wprk-admin-app"></div></div>';

    }

}

new WPRK\_Create\_Admin\_Page();

1. class-create-settings-routes
2. <?php
3. /\*\*
4. \* This file will create Custom Rest API End Points.
5. \*/
6. class WP\_React\_Settings\_Rest\_Route {
7. public function \_\_construct() {
8. add\_action( 'rest\_api\_init', [ $this, 'create\_rest\_routes' ] );
9. }
10. public function create\_rest\_routes() {
11. register\_rest\_route( 'wprk/v1', '/settings', [
12. 'methods' => 'GET',
13. 'callback' => [ $this, 'get\_settings' ],
14. 'permission\_callback' => [ $this, 'get\_settings\_permission' ]
15. ] );
16. register\_rest\_route( 'wprk/v1', '/settings', [
17. 'methods' => 'POST',
18. 'callback' => [ $this, 'save\_settings' ],
19. 'permission\_callback' => [ $this, 'save\_settings\_permission' ]
20. ] );
21. }
22. public function get\_settings() {
23. $firstname = get\_option( 'wprk\_settings\_firstname' );
24. $lastname  = get\_option( 'wprk\_settings\_lastname' );
25. $email     = get\_option( 'wprk\_settings\_email' );
26. $response = [
27. 'firstname' => $firstname,
28. 'lastname'  => $lastname,
29. 'email'     => $email
30. ];
31. return rest\_ensure\_response( $response );
32. }
33. public function get\_settings\_permission() {
34. return true;
35. }
36. public function save\_settings( $req ) {
37. $firstname = sanitize\_text\_field( $req['firstname'] );
38. $lastname  = sanitize\_text\_field( $req['lastname'] );
39. $email     = sanitize\_text\_field( $req['email'] );
40. update\_option( 'wprk\_settings\_firstname', $firstname );
41. update\_option( 'wprk\_settings\_lastname', $lastname );
42. update\_option( 'wprk\_settings\_email', $email );
43. return rest\_ensure\_response( 'success' );
44. }
45. public function save\_settings\_permission() {
46. return current\_user\_can( 'publish\_posts' );
47. }
48. }
49. new WP\_React\_Settings\_Rest\_Route();

3. .babelrc

{

    "presets": [

      [ "env", {

        "modules": false,

        "targets": {

          "browsers": [

            "last 2 Chrome versions",

            "last 2 Firefox versions",

            "last 2 Safari versions",

            "last 2 iOS versions",

            "last 1 Android version",

            "last 1 ChromeAndroid version",

            "ie 11"

          ]

        }

      } ]

    ],

    "plugins": [

      [ "transform-react-jsx", {

        "pragma": "wp.element.createElement"

      } ]

    ]

  }

Package.json

{

  "name": "wp-react-kickoff",

  "version": "1.0.0",

  "main": "index.js",

  "dependencies": {

    "axios": "^0.21.1",

    "react": "^16.7.0",

    "react-dom": "^16.7.0"

  },

  "devDependencies": {

    "@babel/preset-es2015": "^7.0.0-beta.53",

    "babel-core": "^6.25.0",

    "babel-loader": "^7.1.1",

    "babel-plugin-transform-class-properties": "^6.24.1",

    "babel-plugin-transform-react-jsx": "^6.24.1",

    "babel-preset-env": "^1.6.0",

    "babel-preset-es2015": "^6.24.1",

    "babel-preset-react": "^6.24.1",

    "cross-env": "^5.0.1",

    "webpack": "^3.12.0",

    "webpack-cli": "^3.2.3"

  },

  "scripts": {

    "test": "echo \"Error: no test specified\" && exit 1",

    "build": "cross-env BABEL\_ENV=default NODE\_ENV=production webpack",

    "start": "cross-env BABEL\_ENV=default webpack --watch"

  }

}

webpack.config.php

module.exports = {

    entry: "./src/index.js",

    output: {

        path: \_\_dirname,

        filename: "./dist/bundle.js"

    },

    module: {

        loaders: [

        {

            test: /.js$/,

            loader: "babel-loader",

            exclude: /node\_modules/,

            options: {

            presets: [["env", "react"]],

            plugins: ["transform-class-properties"]

            }

        }

        ]

    }

};

Npm start

wp-react-kickoff.php

<?php

/\*\*

 \* Plugin Name: WP React KickOff

 \* Author: Md. Rabiul Islam Robi

 \* Author URI: https://github.com/robicse11127

 \* Version: 1.0.0

 \* Description: WordPress React KickOff.

 \* Text-Domain: wp-react-kickoff

 \*/

if( ! defined( 'ABSPATH' ) ) : exit(); endif; // No direct access allowed.

/\*\*

\* Define Plugins Contants

\*/

define ( 'WPRK\_PATH', trailingslashit( plugin\_dir\_path( \_\_FILE\_\_ ) ) );

define ( 'WPRK\_URL', trailingslashit( plugins\_url( '/', \_\_FILE\_\_ ) ) );

/\*\*

 \* Loading Necessary Scripts

 \*/

add\_action( 'admin\_enqueue\_scripts', 'load\_scripts' );

function load\_scripts() {

    wp\_enqueue\_script( 'wp-react-kickoff', WPRK\_URL . 'dist/bundle.js', [ 'jquery', 'wp-element' ], wp\_rand(), true );

    wp\_enqueue\_style( 'wp-react-kickoff-style', WPRK\_URL . 'global.css');

    wp\_enqueue\_style( 'wp-react-kickoff-style-b', WPRK\_URL . 'b.css');

    wp\_localize\_script( 'wp-react-kickoff', 'appLocalizer', [

        'apiUrl' => home\_url( '/wp-json' ),

        'nonce' => wp\_create\_nonce( 'wp\_rest' ),

    ] );

    return sprintf( '<div id="wprk-admin-app">Loading...</div>' );

}

add\_shortcode('reactproject','load\_scripts');

require\_once WPRK\_PATH . 'classes/class-create-admin-menu.php';

require\_once WPRK\_PATH . 'classes/class-create-settings-routes.php';

index.php

<?php

// Silence is golden.

Src

App.js

Settings.js

Index.js

import React from 'react';

import ReactDOM from 'react-dom';

import App from './App';

document.addEventListener( 'DOMContentLoaded', function() {

    var element = document.getElementById( 'wprk-admin-app' );

    if( typeof element !== 'undefined' && element !== null ) {

        ReactDOM.render( <App />, document.getElementById( 'wprk-admin-app' ) );

    }

} )

Code for File Name: App.js

import React from 'react';

import Settings from './components/Settings';

import PostTitles from "./components/PostTitles";

function App() {

    return(

        <React.Fragment>

            <Settings />

        </React.Fragment>

    )

}

export default App;

Under components Folder

Code for : Settings.js

import React, { useState, useEffect } from 'react';

import axios from 'axios';

const Settings = () => {

    // declaring 04 variables for a simple user Interface

    const [posts, setPosts] = useState([]); //active

    const [ firstname, setFirstName ] = useState( '' );

    const [ lastname, setLastName ]   = useState( '' );

    const [ email, setEmail ]         = useState( '' );

    const [ loader, setLoader ] = useState( 'Save Settings' );

    //appLocalizer.apiUrl what is this?

    const baseurl = 'https://www.brainstormcreative.co.uk';

    const postsEndpoint = '/wp-json/wp/v2/posts';

    const endpoint = 'https://api.github.com/users'; //active

    //baseurl + postsEndpoint;

    const url = `${appLocalizer.apiUrl}/wprk/v1/settings`;

    const handleSubmit = (e) => {

        e.preventDefault();

        setLoader( 'Saving...' );

        axios.post( url, {

            firstname: firstname,

            lastname: lastname,

            email: email

        }, {

            headers: {

                'content-type': 'application/json',

                'X-WP-NONCE': appLocalizer.nonce

            }

        } )

        .then( ( res ) => {

            setLoader( 'Save Settings' );

        } )

    }

    useEffect( () => {

        axios.get( endpoint )

        .then( ( res ) => {

            // setFirstName( res.data[0].date );

             setPosts(res.data);

            console.log(res.data);

            // setLastName( res.data.lastname );

            // setEmail( res.data.email );

        } )

    }, [] )

    // return(

    //     <React.Fragment>

    //         <h2>React Settings Form</h2>

    //             {posts}

    //         <form id="work-settings-form" onSubmit={ (e) => handleSubmit(e) }>

    //             <table className="form-table" role="presentation">

    //                 <tbody>

    //                     <tr>

    //                         <th scope="row">

    //                             <label htmlFor="firstname">Firstname</label>

    //                         </th>

    //                         {/\* <td>

    //                             <input id="firstname" name="firstname" value={ firstname } onChange={ (e) => { setFirstName( e.target.value ) } } className="regular-text" />

    //                         </td> \*/}

    //                     </tr>

    //                     <tr>

    //                         <th scope="row">

    //                             <label htmlFor="lastname">Lastname</label>

    //                         </th>

    //                         {/\* <td>

    //                             <input id="lastname" name="lastname" value={ lastname } onChange={ (e) => { setLastName( e.target.value ) } } className="regular-text" />

    //                         </td> \*/}

    //                     </tr>

    //                     <tr>

    //                         {/\* <th scope="row">

    //                             <label htmlFor="email">Email</label>

    //                         </th>

    //                         <td> \*/}

    //                             {/\* <input id="email" name="email" value={ email } onChange={ (e) => { setEmail( e.target.value ) } } className="regular-text" />

    //                         </td> \*/}

    //                     </tr>

    //                 </tbody>

    //             </table>

    //             <p className="submit">

    //                 <button type="submit" className="button button-primary">{ loader }</button>

    //             </p>

    //         </form>

    //     </React.Fragment>

    // )

     return (

    //      <React.Fragment>

    // { <div  className="header" >

    //     <ul>

    //        {posts.map((post) =>

    //           <li key={post.id}>

    //          <h4 className="mb-0 mt-0 textLeft">{post.login}  </h4>

    //        <span className="text-left">{post.type }</span>

    //      <div className="image">  <img src={ post.avatar\_url }  width="155" /> </div>

    //         </li>

    //       )}

    //     </ul>

    // </div> }

    //    </React.Fragment>

    // );

<table className="table table-bordered table-dark">

  <thead>

    <tr>

      <th scope="col">#</th>

      <th scope="col">Name</th>

      <th scope="col">Website</th>

      <th scope="col">photo</th>

    </tr>

  </thead>

  <tbody>

      {posts.map((post, i) => {

        return [

            <tr key={i} >

              <td>{post.id}</td>

              <td>{post.login}</td>

              <td>{post.url}</td>

              <td>{<img src={ post.avatar\_url }  width="155" />}</td>

            </tr>

            //This inline conditional makes it weird but this works

        ];

      })}

    </tbody>

    </table>

     );

}

export default Settings;

shortcode we defined **reactproject**  in the

wp-react-kickoff.php

Result

