

The WordPress Rest API

What is it, where we can use, How to extend.

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POST it PUT it!

Get it

Rest Now!



Find Slide and Snippet at

https://restudaipur.wordpress.com/



What is API?

- Application programming interfaces (API)
- Opening your Product Data/Functionality to other Products.
- In simple meaning.
 - API allows one piece of software to talk to another.



We use API often.

- Example ATM
 - User Authenticates & Submits Request
 - ATM communicates with bank to get information
 - ATM Gives Response to User.
- In the ATM Case API Break Down..
 - Application is ATM Which is Machine.
 - Programming Where it does requests to the bank server.
 - Interface The Touch Screen & Keyboard Part of The ATM.

You already using many APIs in WordPress!

- Plugin API All plugins in your WordPress uses Plugin API.
- Shortcode API Allows You to Register New Shortcode into WordPress
- Database API Plugins, Theme, WP Core Uses Database API to Interact with Database.
- Rewrite API When you changes the permalink from WP Settings. WP uses Rewrite API.
- · Widgets API Love Widget ? they all got arrived on your sidebar from Widget API.
- Theme Customisation API When you customise your theme. All settings are registered into WP using Theme Customisation API
- HTTP API WP is popular for there easy update. So that functionality uses HTTP API.
- Others... Everything Else https://codex.wordpress.org/WordPress_APIs



"WordPress is Just a Blog!"



After Years

"WordPress is not just a Blog!."



The Present



"WordPress is not just a CMS!."



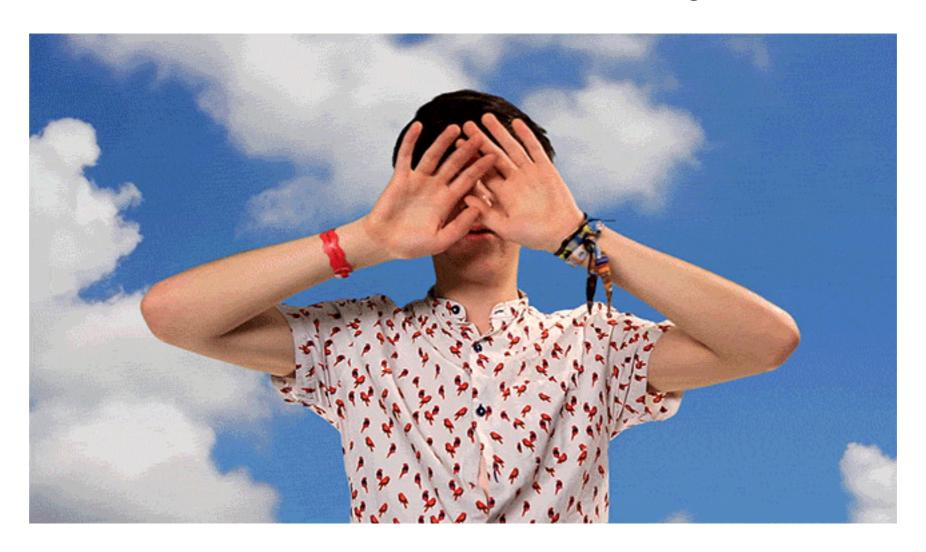
Future

"WordPress It's an application framework."



Nope! It's **today** WordPress 4.7 "**Vaughan**"

Thanks to WordPress Rest API Plugin





So! What About REST API

- REST (Representational State Transfer)
- Works pretty same way website works!
- Uses http methods (GET, POST, PUT, DELETE, etc.)
- It's not a specific tool or framework.
- Often use examples.
 - Facebook Graph API
 - Twitter API.
 - Google API



HTTP & CRUD

- Rest API uses HTTP to do CRUD.
 - Uses GET for retrieving data from the API.
 - Uses **POST** for creating new resources
 - Uses **PUT** for updating resources
 - Uses **DELETE** for deleting resources



What About WP Rest API

- It's Rest API for WordPress, available via HTTP.
- Grab your site's data in simple JSON format.
- The WordPress REST API "lives" at /wp-json/e.g http://yoursite.com/wp-json/
- The index provides information regarding what routes are available for that particular WordPress install.



Demo Time!



API URL Explanation

http://example.com/wp-json/wp/v2/posts/1

- Red Part is the root installation of your wordpress.
- Blue Part is the base of your rest api access point.
- Green Part is the Route which hold the data endpoints.



Endpoints

- Each route has 3 Endpoints
 - GET triggers a get_item method, returning the post data to the client.
 - POST triggers an update_item method, taking the data to update, and returning the updated post data.
 - DELETE triggers a delete_item method, returning the now-deleted post data to the client.

Available Routes

Posts wp-json/wp/v2/posts or /<id>

• Categories wp-json/wp/v2/categories/ or /<id>

• **Users** wp-json/wp/v2/users/ or /<id>

Media wp-json/wp/v2/media/ or /<id>

• **Settings** wp-json/wp/v2/settings/

• Comments wp-json/wp/v2/comments/ or /<id>

And Others...

Reference: https://developer.wordpress.org/rest-api/reference/



Demo Time!



Chances are, if you can do it with WordPress, the API will let you do it.

WP Rest API at WordPress.org



What if not!?



Custom Endpoint



Some Snippets

Consider /wp-json/myapi/v1/cars/

- Simple GET Endpoint. https://goo.gl/oGDZn4
- Simple POST Endpoint.- https://goo.gl/ugBt51
- Simple DELETE Endpoint. https://goo.gl/qlyDZo
- Register Post Type Endpoint https://goo.gl/UytPaV



Extend Existing Endpoint

Use register_rest_field function

Snippet https://goo.gl/zzOqZ4



Usages / Possibilities

- Applications coded in any languages!
- In your theme!
- Providing/Sharing any functionality to any 3rd party services
- More to Imagine.....



Just for Information

Rest API found to be fast than AJAX API

Comparison:

https://goo.gl/3ROpU

PS. I haven't tested personally just saying based on the article.



Create Themes with WP Rest API

- Making theme using REST API is Possible.
- It's not that Hard!
- Benefits
 - Light & Fast
 - No Reloading
 - Maintains State



Useful Links & References

- Plugin for WordPress < 4.7
 https://wordpress.org/plugins/rest-api/
- Full Documentation of WP Rest API v2 https://developer.wordpress.org/rest-api/
- https://make.wordpress.org/core/components/restapi/
- Join #core-restapi Slack Channel at wordpress.slack.com



Thanks.. Question?

You can find slide & Snippets at https://restudaipur.wordpress.com/

