Code Documentation

for

REST API for Medpick Web Application

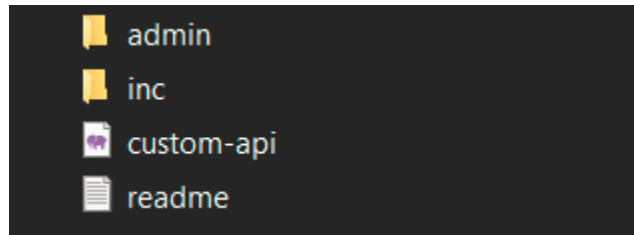**Version 1.0**

Prepared by

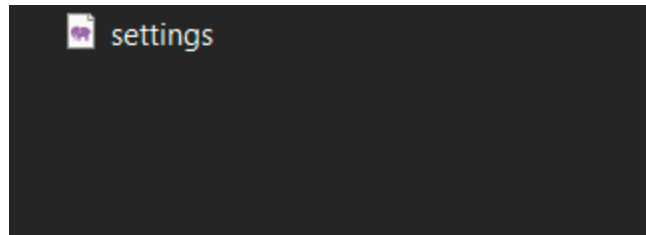**Jenish Gandhi, Aditi Patel, Wei Xia**

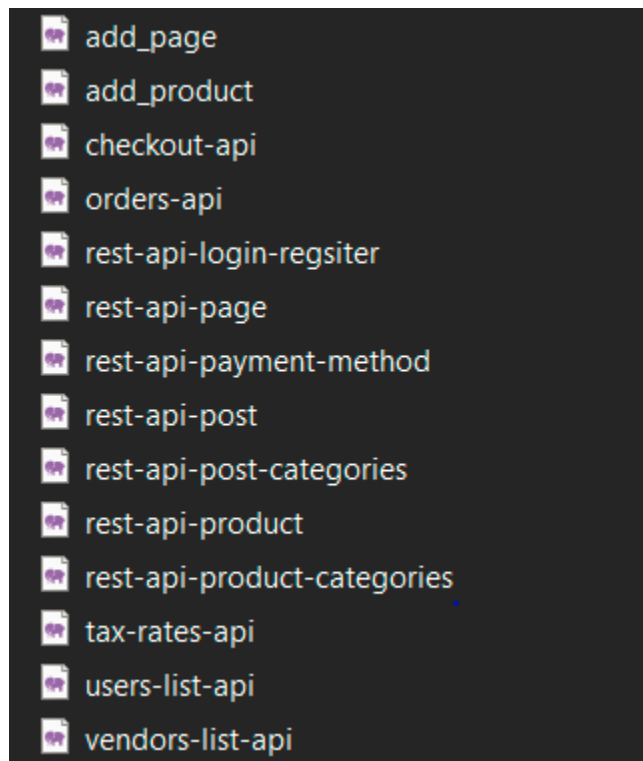**University of Massachusetts Boston**

Project Directory and List of files

```
admin
inc
custom-api
readme
```

Inside admin folder

```
settings
```

Inside inc folder

```
add_page
add_product
checkout-api
orders-api
rest-api-login-regsiter
rest-api-page
rest-api-payment-method
rest-api-post
rest-api-post-categories
rest-api-product
rest-api-product-categories
tax-rates-api
users-list-api
vendors-list-api
```

1. **custom-api.php**

   File directory: /custom-api.php

   Description: List of all file names of apis

   Functions details:
   - **validate_authorization_header**():
     - Validate authorization header for API calls.
   - **customrestapi_activate()**
     - Activates plugin
   - **customrestapi_deactivate()**
     - Deactivates plugin
   - **require_once MP_DIR_PATH . 'file_name'**
     - Calls each files of all the apis

2. **settings.php:**

   File directory: /admin/settings.php

   Description: Custom api Admin setting option for Authentication

   Functions details:
   - **custom_add_settings_page():**
     - Custom add settings page
   - **wp_custom_api_settings():**
     - Customize api settings
   - **custom_field_settings():**
     - Customize field option page in api setting
   - **custom_plugin_setting_consumer_key():**
     - Get Consumer_key
   - **custom_plugin_setting_consumer_secret():**
     - Get consumer_secret

3. **add_page.php**

   File directory: /inc/add_page.php

   Description: Adds new page

Functions details:
- **wl_addPage(WP_REST_Request $request):**
  - Returns $post to insert new page

4. **add_product.php**

File directory: /inc/add_product.php

Description: Adds new products using json request

Functions details:
- **wl_addProduct(WP_REST_Request $request)**
  - Inserts new product

5. **checkout-api.php**

File directory: /inc/checkout-api.php

Description: Posts the checkout and cart data to create new order

Functions details::
- **checkout(WP_REST_Request $request)**
  - Creates order with the passed parameters products
- **addCart(WP_REST_Request $request)**
  - Adds products to cart and calculates total along with tax

6. **orders-api.php**

File directory: /inc/orders-api.php

Description: Get order data by order id, user id, and vendor id

Functions details:
- **wl_order_by_id($request)**
  - Returns order details by order id
- **wl_user_orders($request)**
  - Returns all order ids of particular user

- **wl_vendor_orders($request)**
  - Return all order ids of particular vendor

7. **rest-api-login-register.php**

   File directory: /inc/rest-api-login-register.php

   Description: Posts username and password for login and register

   Functions details:
   - **nonce($request)**
     - Creates nonce, for security
   - **register(WP_REST_Request $request)**
     - Posts user's data to register new users
   - **login($request))**
     - Posts user's credentials to logon users

8. **rest-api-page.php**

   File directory: /inc/rest-api-page.php

   Description: Get all pages listing and subpages with parent listing

   Functions details:
   - **wl_pages()**
     - Returns page listings
   - **wl_page($parent_id)**
     - Returns all subpages of a parent page by id
   - **get_slider_image($home_page_id)**
     - Returns home page slider images

9. **rest-api-payment-method.php**

   File directory: /inc/rest-api-payment-method.php

   Description: Lists payment details used in checkout function

   Functions details:
   - **get_payment_methods()**
     - Returns payment details

10. rest-api-post-categories.php

File directory: /inc/rest-api-post-categories.php

Description: Get all post categories data

Functions details:
- **get_Post_categories()**
  - Returns all post categories list
- **get_category_posts_listing_by_id($term_id)**
  - Returns all posts listing related to particular post category

11. rest-api-post.php

File directory: /inc/rest-api-post.php

Description: Get all posts, posts by id, post by slug, related posts, and post filters

Functions details:
- **wl_posts()**
  - Returns all posts list
- **wl_post($slug)**
  - Returns posts by slug name
- **get_latest_posts_by_id($post_id)**
  - Returns latest posts by id
- **ci_get_related_post($post_id, $related_count, $args = array())**
  - Returns related posts of particular post

12. rest-api-product-categories.php

File directory: /inc/rest-api-product-categories.php

Description: Get all product categories, Products listing related to categories by id, and Related image gallery of product

Functions details:
- **get_Product_categories()**
  - Returns all product categories list
- **get_category_products_listing($term_id)**
  - Returns all Products listing related to categories by id

- **ci_get_related_gallery($post_id, $related_count, $args = array())**
  - Returns related image gallery of product

13. rest-api-product.php

File directory: /inc/rest-api-post.php

Description: Get all product, product by slug name, product by id, related products of product. products with filters, product by tag, products filtered by date before, products filtered by date after, and products filtered by on sale.

Functions details:
- **wl_product_list()**
  - Returns all products
- **wl_product_detail($slug)**
  - Returns all products by slug
- **wl_product_detail_by_id($post_id)**
  - Returns all products by id
- **ci_get_related_product($post_id, $related_count, $args = array())**
  - Returns all related products of particular product
- **filter_Product_By_Category($products, $request)**
  - Filters products by category
- **get_filter_products_by_category($request)**
  - Returns filtered products by category
- **filter_Product_By_Tag($products, $request)**
  - Filters products by tag
- **get_filter_products_by_tag($request)**
  - Returns filtered products by tag
- **filter_Product_By_Date_Before($products, $request)**
  - Filters products by date before
- **get_filter_products_by_date_before($request)**
  - Returns filtered products by date before
- **filter_Product_By_Date_After($products, $request)**
  - Filters products by date after
- **get_filter_products_by_date_after($request)**
  - Returns filtered products by date after
- **filter_Product_By_OnSale($products)**
  - Filters products on sale
- **get_filter_products_by_onsale($request)**
  - Returns filtered products on sale

14. tax-rates-api.php

File directory: /inc/tax-rates-api.php

Description: Get all tax details which is used in checkout function

Functions details:
- **wl_taxes()**
    - Returns list of tax details
- **wl_taxes_by_id($request)**
    - Returns list of tax details by id

15. users-list-api.php

File directory: /inc/users-list-api.php

Description: Get all users and users by id

Functions details:
- **get_user_assoc($user)**
    - Returns user details associative array
- **wl_users()**
    - Returns all customers, i.e. users whose role is customer
- **wl_user_by_id($request)**
    - Returns user by id

16. vendors-list-api.php

File directory: /inc/vendors-list-api.php

Description: Get all vendors and vendors by id

Functions details:
- **get_vendor_assoc($vendor)**
    - Returns vendor listing associative array
- **wl_vendors()**
    - Returns all customers, i.e. users whose role is customer
- **get_vendor_detail_assoc($user_id)**
    - Returns vendor details associative array
- **wl_vendor_by_id($request)**

- Returns vendor details by id
- **wl_vendor_products($request)**
  - Returns particular vendor's products