

1. Get Banner Image (Admin)

Get homepage image (// for admins)

Request method: GET

Request URL: '\${API_BASE_URL}/mainImage/banner'

Request parameter: language parameter (e.g. ?lang=zh)

Example of backend response:

```
{  
    "code": 0,  
    "data": [  
        { "imageUrl": "http://.../zh.jpg", "id": 1 },  
        { "imageUrl": "http://.../zh2.jpg", "id": 2 },  
        ...  
    ],  
    "message": "Success"  
}
```

For front-end display, a lang field is added for each image object when it returns.

2. Add Image URL to Banner (Admin)

Add a homepage image (for admins)

Request method: POST

Request URL: '\${API_BASE_URL}/admin/addMainImages'

Request parameters: { imageUrlZh, imageUrlEn }

Example of backend response:

```
{  
    "code": 0,  
    "data": {},  
    "message": "Added successfully"  
}
```

3. Delete Image from Banner (Admin)

Delete the homepage image (for admins, delete according to the image ID)

Request: DELETE

Request URL: '\${API_BASE_URL}/admin/deleteMainImage'

Request parameter: { imageId } (passed via request body)

Example of backend response:

```
{  
    "code": 0,  
    "image_id": {},  
    "message": "Deleted successfully"  
}
```

4. Add Image File to Banner (Admin)

Upload images (for admins to add images via file upload)

Request method: POST

URL: \${API_BASE_URL}/admin/uploadImages

Request parameters: FormData format, containing two files:

- 'image_zh': Chinese picture
- 'image_en': English image

5. Fetch Log (Admin)

Get server access logs and error logs (viewed by administrators)

Request method: POST

URL: \${API_BASE_URL}/admin/log

Request parameters: None

Example of backend response:

```
{  
    "status": "success",  
    "Alogs": "2025-05-13 08:00:00 GET /index.html 200\\n...",  
    "Elogs": "2025-05-13 08:00:05 ERROR Traceback...\\n..."  
}
```

@returns {Promise<{ access: string[], error: string[] } | null>}

Returns an object containing access logs and error logs (each item is an array of strings split by row) on success and null on failure

6. Fetch Log Analyze (Admin)

Analyze the fields in the log file <url> and count the number of visits to each URL.

Return value:

- A JSON object where the key is the URL and the value is the number of visits to that URL.
- Data type: Dict[str, int]
- Example return value:

```
{  
    "http://example.com/page1": 5,  
    "http://example.com/page2": 3  
}
```

7. Get All Users (Admin)

Get all user information

Request method: GET

Request URL: \${API_BASE_URL}/users'

Request parameter: An optional language parameter, e.g. ?lang=zh

Example of backend response:

```
{  
    "code": 0,  
    "data": [  
        { "id": 1, "username": "user1", "role": "user", ... },  
        { "id": 2, "username": "admin", "role": "admin", ... }  
    ],  
    "message": "query successful"  
}
```

8. Update User Information (Admin)

Update user information

Request method: PUT

Request URL: '\${API_BASE_URL}/users/' // id is no longer concatenated in the URL, but is implicitly passed through the request body

Request parameter: language parameter (e.g. ?lang=zh)

Request body format (example):

```
{  
  "id": 1, // passed implicitly  
  "username": "newUsername",  
  "role": "user"  
  // Other fields that need to be updated  
}
```

Example of backend response:

```
{  
  "code": 0,  
  "data": { "id": 1, "username": "newUsername", "role": "user", ... },  
  "message": "Update successful"  
}
```

9. Delete User (Admin)

Delete user information

Request: DELETE

Request URL: '\${API_BASE_URL}/users/' // id is no longer concatenated in the URL

Request parameter: language parameter (e.g. ?lang=zh)

Request body format (example):

10. Create a New User (Admin)

Create a new user (Admin Edition)

Request method: POST

Request URL: '\${API_BASE_URL}/admin/createUser'

Request Parameters: Language parameters (e.g. ?lang=zh)

Request body format (example):

```

"Age": 25,
"password": "newPassword"
}
Example of backend response:
{
"code": 0,
"data": { "id": 123, "username": "newUser", "role": "user", ... },
"message": "Created successfully"
}

```

11. Change User's Avatar (Admin)

Modify user avatar (Admin interface)

Request method: POST

Request URL: '\${API_BASE_URL}/admin/changeUserAvatar/\${userId}'

Request Parameters:

- *lang (optional, query parameter)*

Request Body (FormData):

- *avatar: File*

12. Get User's Avatar (Admin)

Get the avatar of the currently logged-in user

Request method: GET

Request URL: '\${API_BASE_URL}/user/getAvatar'

Request header: Authorization: <token>Bearer

Return: { avatar: string }

13. Get Health Suggestion (Ai)

Request Method: POST

Request URL: \${API_BASE_URL}/health-suggestion

Request Parameters: Language parameters (e.g. ? lang=zh)

Request body format (example):

```

{
  "month": <Number>,           // Current month (1-12)
  "username": <String>,        // Username (unique identifier)
  "age": <Number>,             // User's age
  "weight": <Number>,          // User's weight in kg
  "height": <Number>,          // User's height in cm
  "lang": <String>              // Language ('en' for English, 'zh' for Chinese)
}

```

Example Backend Response

Success Response (English):

```
{  
    "suggestion": "Based on your profile and the current month, I recommend drinking warm herbal teas  
and avoiding cold beverages. Make sure to eat more seasonal fruits and vegetables."  
}
```

Success Response (Chinese):

```
{  
    "suggestion": "根据您的情况和当前月份，建议多喝温热的养生茶，避免冷饮，并多吃应季的水果和  
蔬菜。"  
}
```

14. Send User Message To AI (Ai)

Request Method: POST

Request URL: \${API_BASE_URL}/api/chat/BianQue

Request Parameters: {

```
"lang": "zh", // or "en", depending on the language preference  
"question": "User's question here"  
}
```

Example Backend Response: {

```
"message": "AI response to the user's question in the requested language"  
}
```

15. Register (Auth)

```
/**  
 * Register a new user  
 * Request method: POST  
 * Request URL: '${API_BASE_URL}/register'  
 * Content type: application/json  
 * Request body:  
 * {  
 *     "username": <string>, // The username of the user  
 *     "password": <string> // The password of the user  
 * }  
 * Example of backend response:  
 * {  
 *     "msg": "Registration is successful" // Success message  
 * }  
 * Error responses:  
 * {  
 *     "msg": "The username and password cannot be empty" // Missing fields  
 * }
```

```
* {
*   "msg": "The username already exists" // Duplicate username
* }
*/
```

16. Login (Auth)

```
/***
 * Login a user
 * Request method: POST
 * Request URL: '${API_BASE_URL}/login'
 * Content type: application/json
 * Request body:
 * {
 *   "username": <string>, // The username of the user
 *   "password": <string> // The password of the user
 * }
 * Example of backend response:
 * {
 *   "access_token": <string> // JWT token for the authenticated session
 * }
 * Error responses:
 * {
 *   "msg": "The username and password cannot be empty" // Missing fields
 * }
 * {
 *   "msg": "Wrong username or password" // Invalid credentials
 * }
 */
```

17. Get Profile (Auth)

```
/***
 * Get the profile information of the logged-in user
 * Request method: GET
 * Request URL: '${API_BASE_URL}/profile'
 * Request header: Authorization: <token>Bearer
 * Example of backend response:
 * {
 *   "msg": "Welcome <username>, This is your personal information" // Personalized welcome message
 * }
 * Error responses:
 * {
 *   "msg": "Missing Authorization Header" // Missing or invalid token
 * }
 */
```

18. Get User Information (Auth)

```
/**  
 * Get complete information about the logged-in user, including height, weight, age, etc.  
 * Request method: GET  
 * Request URL: '${API_BASE_URL}/user/info'  
 * Request header: Authorization: <token>Bearer  
 * Example of backend response:  
 * {  
 *     "code": 0,  
 *     "data": {  
 *         "id": <int>,           // User ID  
 *         "username": <string>, // Username  
 *         "height": <float>,    // Height in cm  
 *         "weight": <float>,    // Weight in kg  
 *         "age": <int>,        // Age in years  
 *         "role": <string>      // Role of the user (e.g., admin, user)  
 *     },  
 *     "message": "Success"  
 * }  
 * Error responses:  
 * {  
 *     "msg": "Missing Authorization Header" // Missing or invalid token  
 * }  
 */
```

19. Update User Information (Auth)

```
/**  
 * Update user information (height, weight, age)  
 * Request method: PUT  
 * Request URL: '${API_BASE_URL}/user/info'  
 * Content type: application/json  
 * Request header: Authorization: <token>Bearer  
 * Request body:  
 * {  
 *     "height": <float>,  // Height in cm  
 *     "weight": <float>,  // Weight in kg  
 *     "age": <int>        // Age in years  
 * }  
 * Example of backend response:  
 * {  
 *     "code": 0,  
 *     "data": {  
 *         "id": <int>,           // User ID  
 *         "username": <string>, // Username  
 *         "height": <float>,    // Updated height  
 *         "weight": <float>,    // Updated weight  
 *     }  
 * }
```

```

*      "age": <int>           // Updated age
*    },
*    "message": "Profile updated successfully!"
* }
* Error responses:
* {
*   "msg": "Missing Authorization Header" // Missing or invalid token
* }
*/

```

20. Upload Avatar (Admin)

Upload a user avatar

Request method: POST

Request URL: '\${API_BASE_URL}/user/avatar'

Request header: Authorization: <token>Bearer

Content type: multipart/form-data

Request body: FormData, field name avatar

Example of backend response:

```
{
  "message": "File uploaded successfully"
}
```

21. Fetch Herb Area (Map)

*/***

** Fetch the geographic production areas of a specific herb*

** Request method: GET*

** Request URL: '\${API_BASE_URL}/api/areas/herb/<herbId>?lang=<lang>'*

** Request parameters:*

** - herbId: <int> (Required) The unique ID of the herb*

** - lang: <string> (Optional) Language preference ('zh' for Chinese, 'en' for English); defaults to 'zh'*

** Example URL:*

** - '\${API_BASE_URL}/api/areas/herb/1?lang=zh'*

** Example of backend response:*

```

* {
*   "areas": [
*     {
*       "type": "Polygon",
*       "coordinates": [
*         [lat1, lon1],
*         [lat2, lon2],
*         ...
*       ]
*     },
*     {
*       "type": "MultiPolygon",
*       "coordinates": [

```

```

*      [
*          [lat1, lon1],
*          [lat2, lon2],
*
*          ...
*      ],
*
*      ...
*
*  ]
*
* }
*
* }

* Error responses:
* - HTTP status code 500: Server error, e.g., "几何类型不支持" (Unsupported geometry type)
*/

```

22. Get Fuzzy Prescription (tcm)

```

/***
* Fuzzy matching of prescriptions based on the herbs selected by the user
* Request method: POST
* Request URL: '${API_BASE_URL}/tcm/getFuzzyPrescription'
* Content type: application/json
* Request body:
* {
*     "herbs": [<int>, <int>, ...], // Array of herb IDs selected by the user
*     "lang": <string> // Language ('zh' for Chinese, 'en' for English); defaults to 'zh'
* }
* Example of backend response:
* {
*     "precisionResult": [
*         { "id": <int>, "name": <string> }, // Exact match prescriptions
*         ...
*     ],
*     "guessResult": [
*         { "id": <int>, "name": <string> }, // Fuzzy match prescriptions
*         ...
*     ]
* }
* Error responses:
* {
*     "error": "<string>" // Error message if the request fails
* }
*/

```

23. Check Herb Selection (tcm)

```

/***
* Check whether the herbs selected by the user meet the requirements of the specified prescription
* Request method: POST
* Request URL: '${API_BASE_URL}/tcm/checkHerbSelection'
*/

```

```

* Content type: application/json
* Request body:
* {
*   "prescriptionId": <string>,      // ID of the prescription to check
*   "selectedHerbs": [<int>, ...], // Array of herb IDs selected by the user
*   "lang": <string>                // Language ('zh' for Chinese, 'en' for English); defaults to 'zh'
* }
* Example of backend response:
* {
*   "result": "success" | "failure", // Indicates whether the selection is correct
*   "message": "<string>",         // Success or failure message
*   "lack": [<int>, ...],          // IDs of missing herbs (if any)
*   "extra": [<int>, ...]           // IDs of extra herbs (if any)
* }
* Error responses:
* {
*   "error": "<string>" // Error message if the request fails
* }
*/

```

24. Get Herb Ids (tcm)

```

/***
* Get an array of random herb IDs
* Request method: GET
* Request URL: '${API_BASE_URL}/tcm/herb-ids'
* Request parameters:
* {
*   "lang": <string> // Language ('zh' for Chinese, 'en' for English); defaults to 'zh'
* }
* Example of backend response:
* {
*   "ids": [<int>, <int>, ...] // Array of random herb IDs
* }
* Error responses:
* {
*   "error": "<string>" // Error message if the request fails
* }
*/

```

25. Get Herb Detail (tcm)

```

/***
* Get herb details based on its ID
* Request method: GET
* Request URL: '${API_BASE_URL}/tcm/herb-detail/<id>'
* Request parameters:
* {
*   "lang": <string> // Language ('zh' for Chinese, 'en' for English); defaults to 'zh'
* }

```

```

* Example of backend response:
* {
*   "imageUrl": "<string>", // URL of the herb image
*   "name": "<string>", // Name of the herb
*   "options": [ // Multiple-choice options for the quiz
*     "<string>",
*     "<string>",
*     ...
*   ]
* }
* Error responses:
* {
*   "error": "<string>" // Error message if the request fails
* }
*/

```

26. Submit Quiz Score (tcm)

```

/***
* Submit quiz test results
* Request method: POST
* Request URL: '${API_BASE_URL}/tcm/quiz-result'
* Content type: application/json
* Request body:
* {
*   "accuracy": <number>, // Quiz accuracy percentage
*   "username": <string>, // Username of the current user
*   "lang": <string> // Language ('zh' for Chinese, 'en' for English); defaults to 'zh'
* }
* Example of backend response:
* {
*   "message": "Input succeed" // Success message
* }
* Error responses:
* {
*   "error": "<string>" // Error message if the request fails
* }
*/

```

27. Get All Herb Categories (tcm)

Description: Get all herb categories (药材分类) in the specified language.

- Request Method: GET
- URL: \${API_BASE_URL}/herbs/categories
- Query Parameters:
 - lang (string, optional, default 'zh') - language, either 'zh' or 'en'

Example Call:

```
getHerbCategories(); // → ["根茎类", "叶类", "花类"]
```

Response Example:

[“根茎类”, “叶类”, “花类”]

28. Get the First Twenty Herbs (tcm)

Description: Get the first 20 herbs (commonly used) in the specified language.

- Request Method: POST
- URL: \${API_BASE_URL}/herbs/usefulHerbs
- Query Parameters:
 - lang (string, optional, default 'zh')

Example Call:

```
getUsefulHerbs();
```

Response Example:

```
[  
  { "id": 1, "name": "当归", "image": "http://.../danggui.jpg" },  
  { "id": 2, "name": "人参", "image": "http://.../renshen.jpg" }  
  //...  
)
```

29. Get All Herbal Flavor Classifications (tcm)

Description: Get all herb classifications (药材性味分类) in the specified language.

- Request Method: GET
- URL: \${API_BASE_URL}/herbs/classifications
- Query Parameters:
 - lang (string, optional, default 'zh')

Example Call:

```
getHerbClassifications();
```

Response Example:

[“温性”, “寒性”, “甘味”, “苦味”]

30. Get Herbs By Category (tcm)

Description: Get all herbs under a certain category, in the specified language.

- Request Method: GET
- URL: \${API_BASE_URL}/herbs/\${category}
 - Replace \${category} with the real category string, e.g. “根茎类”
- Query Parameters:
 - lang (string, optional, default 'zh')

Example Call:

```
getHerbsByCategory('根茎类');
```

Response Example:

```
[  
  { "id": 9, "name": "黃芪", "image": "http://.../huangqi.jpg" }  
  //...  
]
```

31. Get Herbs By Classification (tcm)

Description: Get all herbs under a certain flavor/classification, in the specified language.

- *Request Method:* GET
- *URL:* \${API_BASE_URL}/herbs/classification/\${classification}
 - Replace \${classification} with actual classification string, e.g. "温性"
- *Query Parameters:*
 - lang (string, optional, default 'zh')

Example Call:

```
getHerbsByClassification('温性');
```

Response Example:

```
[  
  { "id": 11, "name": "附子", "image": "http://.../fuzi.jpg" }  
  //...  
]
```

32. Get Details of Individual Herbs (tcm)

Description: Get full details for a single herb by its ID, in the specified language.

Request Method: GET

URL: \${API_BASE_URL}/herbs/\${id}

Replace \${id} with the herb ID

Query Parameters:

lang (string, optional, default 'zh')

Example Call:

```
getHerbDetail(1);
```

Response Example:

```
{  
  "id": 1,  
  "name": "当归",  
  "cnName": "当归",
```

```

"category": "根茎类",
"origin": "中国",
"production_regions": "甘肃, 四川",
"properties": "甘温",
"functions": "补血调经",
"image": "http://.../danggui.jpg",
"relate_prescription": ["归脾汤", "八珍汤"],
"relate_prescription_id": [12, 34],
"classification": "温性"
}

```

33. Search for Herbs by Name (tcm)

Description: Search for herbs by name (supports substring/fuzzy matching, works for Chinese & English).

- Request Method: GET
- URL: \${API_BASE_URL}/herbs/search
- Query Parameters:
 - name (string, required): Search keyword
 - lang (string, optional, default 'zh')

Example Call:

```
searchHerbsByName('人参');
```

Response Example:

```
[
  { "id": 2, "name": "人参", "image": "http://.../renshen.jpg" }
  //...
]
```

34. Get Herb Detail (tcm)

Description: Get all details of a herb for admin use, including both Chinese and English.

- Request Method: GET
- URL: \${API_BASE_URL}/admin/getHerbDetails/\${id}
- Query Parameters:
 - lang (string, optional, default 'zh')

Example Call:

```
getHerbDetailAdmin(1)
```

Response Example:

```
{
  "id": 1,
  "name_en": "Angelica sinensis",
  "name_zh": "当归",
  "category_en": "Root",
  "origin_en": "China",
```

```

"production_regions_en": "Gansu, Sichuan",
"properties_en": "Sweet, Warm",
"functions_en": "Blood tonic, regulate menstruation",
"image_en": "http://.../danggui_en.jpg",
"classification_en": "Warm",
"category_zh": "根茎类",
"origin_zh": "中国",
"production_regions_zh": "甘肃, 四川",
"properties_zh": "甘温",
"functions_zh": "补血调经",
"image_zh": "http://.../danggui.jpg",
"classification_zh": "温性"
}

```

35. Get All Prescriptions (tcm)

Description: Retrieve a list of all prescriptions (ID, name only) in the specified language.

- Request Method: GET
- URL: \${API_BASE_URL}/prescriptions
- Query Parameters:
 - lang (string, optional, default: 'zh') - 'zh'/Chinese or 'en'/English

Frontend Call Example:

```
getPrescriptions('zh'); // or 'en'
```

Sample Response:

```
[
  { "id": 1, "name": "四君子汤" },
  { "id": 2, "name": "六味地黄丸" }
]
```

36. Get Individual Prescription Details (tcm)

Description: Get full details of a single prescription by ID, in the specified language.

- Request Method: GET
- URL: \${API_BASE_URL}/prescriptions/\${id}
 - Replace \${id} with the prescription's ID.
- Query Parameters:
 - lang (string, optional, default: 'zh')

Frontend Call Example:

```
getPrescriptionDetail(2, 'zh');
```

Sample Response:

```
{
  "id": 2,
```

```

    "name": "六味地黃丸",
    "cnName": "六味地黃丸",
    "constitute": "熟地黃; 山藥; 山茱萸; 泽泻; 牡丹皮; 茯苓",
    "action": "补腎滋陰",
    "indication": "腎陰虛證",
    "constituted": [5, 6, 7, 8, 9, 10]
}

```

37. Admin Get Prescription Details (tcm)

Description: As an admin, get all information for a prescription in both English and Chinese.

- Request Method: GET
- URL: \${API_BASE_URL}/admin/getPrescriptionDetails/\${id}
- Query Parameters:
 - lang (string, optional, default: 'zh')

Frontend Call Example:

```
getPrescriptionDetailAdmin(2, 'zh')
```

Sample Response:

```

{
  "id": 2,
  "name_en": "Liuwei Dihuang Pill",
  "name_zh": "六味地黃丸",
  "constitute_en": "Rehmannia; Dioscorea; Cornus; Alisma; Moutan; Poria",
  "action_en": "Tonify kidney Yin",
  "indication_en": "Kidney Yin deficiency",
  "constitute_zh": "熟地黃; 山藥; 山茱萸; 泽泻; 牡丹皮; 茯苓",
  "action_zh": "补腎滋陰",
  "indication_zh": "腎陰虛證"
}

```

38. Search Prescriptions by Name (tcm)

Description: Search for prescriptions with a name match (supports fuzzy/substring search, works for both Chinese and English).

- Request Method: GET
- URL: \${API_BASE_URL}/prescriptions/search
- Query Parameters:
 - name (string, required): The search keyword
 - lang (string, optional): 'zh' or 'en'

Frontend Call Example:

```
searchPrescriptionsByName('君子', 'zh')
```

Sample Response:

```
[  
  { "id": 1, "name": "四君子汤" }  
]
```

Error Example (No Input):

```
{ "error": "No name provided" }
```

39. Admin: Add a Prescription (tcm)

Description: Add a new prescription (admin operation). Supports both English and Chinese prescription data.

- Request Method: POST
- URL: \${API_BASE_URL}/admin/addPrescription
- Query Parameters:
 - lang (string, optional): 'zh' or 'en'
- Body (JSON):
 - All
 - of: name_en, name_zh, constitute_en, constitute_zh, action_en, action_zh, indication_en, indication_zh
 - action: 1 (for adding, see update below)

Frontend Call Example:

```
addPrescription({  
  name_en: "Liuwei Dihuang Pill",  
  name_zh: "六味地黄丸",  
  constitute_en: "Rehmannia; Dioscorea; Cornus; Alisma; Moutan; Poria",  
  constitute_zh: "熟地黄; 山药; 山茱萸; 泽泻; 牡丹皮; 茯苓",  
  action_en: "...",  
  action_zh: "...",  
  indication_en: "...",  
  indication_zh: "...",  
  action: 1 // "add"  
});
```

Sample Response:

```
{ "message": "Success!" }
```

40. Admin: Update a Prescription (tcm)

Description: Update an existing prescription (admin operation).

- Request Method: POST
- URL: \${API_BASE_URL}/admin/addPrescription
- Query Parameters:
 - lang (string, optional)
- Body (JSON):
 - All fields as above, must include id

- *action: 0 (for update)*

Frontend Call Example:

```
updatePrescription({
  id: 2,
  name_en: "...",
  name_zh: "...",
  ...,
  action: 0 // "update"
});
```

Sample Response:

```
{"message": "Success!"}
```

41. Admin: Delete a Prescription (tcm)

Description: Delete a prescription (admin operation), removes both English and Chinese versions and cleans up associations.

- *Request Method: DELETE*
- *URL: \${API_BASE_URL}/admin/deletePrescription*
- *Body (JSON):*
 - *id (number): Required, prescription id to delete*
 - *lang (string, optional)*

Frontend Call Example:

```
deletePrescription(2, 'zh')
```

Sample Response:

```
{"message": "Prescription group and related herb links deleted successfully!"}
```

42. Get a Prescription Quiz Question (tcm)

Description: Fetch a prescription question for the quiz, based on language and difficulty, avoiding IDs already presented.

- *Request Method: GET*
- *URL: \${API_BASE_URL}/tcm/prescriptionQuiz/question*
- *Query Parameters:*
 - *lang (string, required): Language, e.g. zh or en*
 - *difficulty (number/string, required): Difficulty level, 1 (easy), 2 (medium), 3 (hard)*
 - *doneQuestionIds (string, optional): Comma-separated list of completed question IDs, e.g. '5,17,29'*

Frontend Call Example:

```
getPrescriptionQuestion('zh', 2, [5, 17, 29]);
```

Sample Response:

```
{
  "id": 12,
  "prescriptionName": "六味地黃丸",
  "correctHerbIds": ["熟地黃", "山藥", "山茱萸", "澤泻", "牡丹皮", "茯苓"],
  "difficulty": "2"
}
```

43. Submit a Prescription Quiz Score (tcm)

Description: Submit a score for a prescription quiz session.

- Request Method: POST
- URL: \${API_BASE_URL}/tcm/score
- Request Body (JSON):
 - accuracy (number, required): The accuracy (%) from the quiz
 - username (string, required): The current username ("", or actual username)
 - totalTime (number, required): Total time spent (seconds)
 - lang (string, required): Language, e.g. zh or en

Frontend Call Example:

```
submitPrescriptionQuizScore(83, 'johndoe', 95, 'en');
```

Sample Response:

```
{ "message": "Input succeed" }
```

Error Example (no user):

```
{ "message": "No available user" }
```

44. Get an Array of Herb IDs (tcm)

Description: Fetch 5 random herb IDs for quiz purposes.

- Request Method: GET
- URL: \${API_BASE_URL}/tcm/herb-ids
- Query Parameters:
 - lang (string, optional, default: zh)

Frontend Call Example:

```
getHerbIds('zh');
```

Sample Response:

```
{ "ids": [1, 27, 5, 99, 140] }
```

45. Get Herb Details for Quiz (tcm)

Description: Fetch image and four names (one correct) for a given herb ID—used in “identify the herb” quiz.

- Request Method: GET
- URL: \${API_BASE_URL}/tcm/herb-detail/\${id}

- Replace \${id} with the desired herb ID.
- *Query Parameters:*
 - lang (string, optional, default: zh)

Frontend Call Example:
`getHerbDetail(27, 'zh');`

Sample Response:

```
{
  "imageUrl": "/static/27.jpg",
  "name": "当归",
  "options": ["黃芪", "白芍", "当归", "川芎"]}
```

46. Submit Quiz Test Results (tcm)

Description: Submit "herb recognition" quiz results, including accuracy, username, and time spent.

- *Request Method:* POST
- *URL:* \${API_BASE_URL}/tcm/quiz-result
- *Request Body (JSON):*
 - accuracy (number, required): The accuracy (%) from the quiz
 - username (string, required): User's name
 - totalTime (number, required): Total time spent (seconds)
 - lang (string, optional, default zh)

Frontend Call Example:
`submitQuizScore(95, 'johndoe', 60, 'en');`

Sample Response:

```
{ "message": "Input succeed" }
```

Error Example (no user):

```
{ "message": "No available user" }
```

47. Validate Herb Selection for a Prescription (tcm)

Description: Submit user's selection of herb IDs for a prescription and receive feedback on correctness, lacking, or extra herbs.

- *Request Method:* POST
- *URL:* \${API_BASE_URL}/tcm/checkHerbSelection
- *Request Body (JSON):*
 - prescriptionId (number, required)
 - selectedHerbs (array of numbers, required)
 - lang (string, required)

Sample Response: (Correct)

```
{
```

```

    "result": "success",
    "message": "恭喜你，选择正确",
    "lack": [],
    "extra": []
}

```

Sample Response: (Lacking herbs)

```

{
    "result": "failure",
    "message": "缺少药材{'熟地黃'}",
    "lack": [12],
    "extra": []
}

```

Sample Response: (Extra herbs)

```

{
    "result": "failure",
    "message": "药材{'黃芪'}是多余的",
    "lack": [],
    "extra": [27]
}

```

48. *Medicinal Herb Image Test (QUIZ) Ranking List (tcm)*

Description:

Fetch the top 10 user rankings for the "herb identification/quiz" module. Rankings are sorted by a combined score based on accuracy and time.

- *Request Method: GET*
- *URL: /api/tcm/ranking*
- *Query Parameters: None*

Example Usage:

```
const data = await fetchRankingData();
```

Example Response:

```

{
    "status": "success",
    "data": [
        {
            "username": "alice",
            "avatar": "/static/avatar1.jpg",
            "accuracy": 92,
            "score": 85
        },
        {
            "username": "bob",

```

```

        "avatar": "/static/avatar2.jpg",
        "accuracy": 90,
        "score": 83
    }
    // ... up to 10 entries
]
}

```

Field Descriptions:

- *username (string): The player's username*
- *avatar (string): User's avatar image path*
- *accuracy (number): Average answer accuracy (%)*
- *score (number): Calculated as: Math.max(0, accuracy - 0.03 * totalTime) (integer, non-negative)*

49. *Prescription Test (Quiz) Leaderboard (tcm)*

Description:

Fetch the top 10 user rankings for the "prescription quiz" module. Sort is also based on combined accuracy and time.

- *Request Method: GET*
- *URL: /api/tcm/ranking/prescription*
- *Query Parameters: None*

Example Usage:

```
const data = await fetchPrescriptionRankingData();
```

Example Response:

```

{
  "status": "success",
  "data": [
    {
      "username": "carol",
      "avatar": "/static/avatar3.jpg",
      "accuracy": 95,
      "score": 89
    },
    {
      "username": "dave",
      "avatar": "/static/avatar4.jpg",
      "accuracy": 88,
      "score": 80
    }
    // ... up to 10 entries
  ]
}

```

Field Descriptions:

- *username (string): The player's username*
- *avatar (string): User's avatar image path*
- *accuracy (number): Average answer accuracy (%)*
- *score (number): Calculated as: Math.max(0, accuracy - 0.03 * totalTime) (integer, non-negative)*

50. *Fetch Story Data (tcm)*

Description:

Retrieve the full data of a specific story (episode/scene) node.

- *Request Method: GET*
- *URL: /api/story/{storyId}*
 - Replace {storyId} with the numeric ID of the story node you want to fetch.

Example Usage:

```
const data = await fetchStoryData(1);
```

Example Response:

```
{  
  "story_number": 1,  
  "id": 1,  
  "label": "药铺",  
  "speaker": "医师",  
  "dialog": "这里是故事内容",  
  "choices": ["购买药材", "离开"],  
  "next_id": [2, 3],  
  "background": "/static/bg1.jpg",  
  "character_image": ["/static/doctor.png"],  
  "audio": "/static/line1.mp3",  
  "speaker_en": "Doctor",  
  "dialog_en": "This is the story text.",  
  "choices_en": ["Buy herbs", "Leave"]  
}
```

Error Response:

```
{ "message": "Story not found" }
```

51. *Fetch Next Story Data (tcm)*

Description:

Given the current scene/story node ID, retrieve an array of all possible "next" story nodes that the player can choose from.

- *Request Method: GET*
- *URL: /api/story/next/{storyId}*
 - Replace {storyId} with the current story node ID.

Example Usage:

```
const nextStories = await fetchNextStoryData(1);
```

Example Response:

```
[  
  {  
    "story_number": 2,  
    "id": 2,  
    "label": "市场",  
    "speaker": "商贩",  
    "dialog": "你来到市场。",  
    "choices": ["还价", "购买"],  
    "next_id": [4, 5],  
    "background": "/static/bg2.jpg",  
    "character_image": ["/static/vendor.png"],  
    "audio": "/static/line2.mp3",  
    "speaker_en": "Vendor",  
    "dialog_en": "You arrive at the market.",  
    "choices_en": ["Bargain", "Buy"]  
  },  
  {  
    "story_number": 3,  
    "id": 3,  
    "label": "药铺外",  
    "speaker": "同伴",  
    "dialog": "你离开了药铺。",  
    "choices": ["返回药铺", "去巷子"],  
    "next_id": [1, 8],  
    "background": "/static/bg3.jpg",  
    "character_image": ["/static/friend.png"],  
    "audio": "/static/line3.mp3",  
    "speaker_en": "Companion",  
    "dialog_en": "You left the pharmacy.",  
    "choices_en": ["Return to pharmacy", "Go to alley"]  
  }  
]
```

Error Response:

```
{ "message": "Story not found" }
```

52. Get Herb names by Herb Ids

```
/**  
 * Batch Get Herb Names by IDs  
 *  
 * Request method: POST  
 * Request URL: `${API_BASE_URL}/herbs/batchNames`  
 * Request body:  
 */
```

```
* {
*   ids: [1, 2, 3],
*   lang: "zh"
* }
*
* Response example:
* [
*   { id: 1, name: "黃芪" },
*   { id: 2, name: "當歸" },
*   { id: 3, name: "白朮" }
* ]
*
* Errors:
* 返回 null 并打印错误信息
*/
export const getHerbNamesBatch = async (ids, lang = 'zh') => {
  try {
    const response = await axios.post(`${API_BASE_URL}/herbs/batchNames`, {
      ids,
      lang
    });
    return response.data; // 假设返回直接是数组
  } catch (error) {
    console.error(`批量获取药材名称失败: ${error.message}`);
    return null;
  }
};
```