Purdue Farmers Market App API Documentation

Important:

All API requests should be made to a server that is running the software under the path "http://ip:port/api/" (note the /api/). So, for example, if a api endpoint is specified in this document to have a location of "/user/login", that request should be sent to "http://ip:port/api/user/login".

Basic Data IO:

The API requests work via sending and receiving JSON data through HTTP POST requests. All request parameters should be sent under the HTTP request body, and response data will always be sent in the following format (if the page is valid):

```
1  {
2      success: boolean,
3      needLogin: boolean, // Will be set to true if login is needed
4                          // but a valid session_full_code was not provided.
5      errorCode: string, // Only will be here if success = false
6      data: { <page-response-data> } // Only will be here if success = true
7  }
```

There are two potential types of errors that can occur and result in an unsuccessful request. Exceptions and Failures. Exceptions are server-side problems that are most likely the result of a bug. Please contact the developer with the code to fix them. Failures are errors that occur because of invalid input parameters. Likely a field is missing or invalid, causing the failure to occur. Only occasionally will failures be the result of a server-side problem.

Whenever an API endpoint has response parameters specified, they will be contained inside the "data" json object (in line 6 above). If it does not specify any response parameters, the "data" json object will be null, and you can get the result of the operation from the "success" boolean.

API Request/Response Example

As an example, if a login request was sent (see /user/login), you would send

```
1   {
2       email_address: "test@example.com",
3       password: "secr3t_p3sw0rd",
4   }
```

And the response from the server would be

```
1   {
2       success: true,
3       needLogin: false,
4       errorCode: null,
5       data: {
6           session_full_code: "1:facc853ea87acdf26852088777f33035"
7       }
8   }
```

But, if an error was to occur, the response would be

```
1   {
2       success: false,
3       needLogin: false,
4       errorCode: "LI-1",
5       data: null
6   }
```

This is the basics of the API request/response structure.

Directories and API Endpoints

/user (Directory)
All API endpoints related to user accounts and session will go here.

/user/login
Used for logging in and creating a user session with the given user account.

Request Parameters:

Name	Type	Required	Notes
email_address	string	Yes	The email address of the user you wish to login as
password	string	Yes	The associated password for the user with the specified email

Response Parameters:

Name	Type	Notes
session_full_code	string	The session code used for accessing methods specific to the user you are logged in as. Store this code in order to access other api endpoints that require a session code.
user_id	int	The id of the user
email_address	string	The email address of the user
name	string	The name of the user
profile_picture	blob	The profile picture of the user
phone_number	string	The phone number of the user
user_type	string	The type of the user will be either "vendor" or "customer"
user_is_vendor	int	Represents if the user is a vendor (1 if so)
vendor_id	int	The vendor id of the user, if applicable

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
LI-1: Failure - Invalid email or password.
LI-2: Exception - An unknown error occurred in creating a session.
LI-3: Exception - An unknown error occurred in finding a user.

/user/logout
Used to logout from the server. Attempting to use the session_full_code after getting a success from this endpoint will result in an authentication error.

Request Parameters:

Name	Type	Required	Notes
session_full_code	string	Yes	The session code for the session you wish to logout of

Response Parameters:
None. Will return success if successful.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
LO-1: Exception - An unknown error occurred in logging out.

/user/signup
Used to create an account that can be used for logging in.

Request Parameters:

Name	Type	Required	Notes
email_address	string	Yes	Email address (must be unique)
name	string	Yes	The first and last name of the user, will be shown to others.
password	string	Yes	Password used to log in.
user_type	"consumer" | "vendor"	Yes	The type of the user, can either be normal user or vendor.

Response Parameters:
None. Will return success if successful.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
SU-1: Failure - One of the parameters is missing/empty.
SU-2: Failure - A user with that email address already exists.
SU-3: Exception - An unknown error occurred in creating the user.
SU-4: Exception - An unknown error occurred in looking for a duplicate.

/user/verifysession
Attempts to validate if the session you are using is valid or not. Returns success if session is valid and user is properly logged in.

Request Parameters:

Name	Type	Required	Notes
session_full_code	string	Yes	The session code for the session you wish to check

Response Parameters:
None. Will return success if successful.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.

/user/updatesettings
Used to update the settings of the user that sends the request. Used for changing name, profile picture, etc.

Request Parameters:

Name	Type	Required	Notes
session_full_code	string	Yes	The session code for the session you wish to use
email_address	string	No	The new email address of the user
name	string	No	The new name for the user
profile_picture	blob	No	The new profile picture for the user
phone_number	string	No	The new phone number for the user

Response Parameters:
None. Will return success if successful.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
UUS-1: Failure - Didn't give any fields to update (must have atleast 1) UUS-2: Exception - An unknown error occurred in updating the settings.

/user/getuserinfo
   Used to get the information of a specific user.

Request Parameters:

Name	Type	Required	Notes
user_id	int	Yes	The id of the user you wish to get the information of.

Response Parameters:

Name	Type	Notes
user_id	int	The id of the user
email_address	string	The email address of the user
name	string	The name of the user
profile_picture	blob	The profile picture of the user
phone_number	string	The phone number of the user
user_type	string	The type of the user. Will only be "vendor" | "customer"
user_is_vendor	int	Represents if the user is a vendor (1 if so)
vendor_id	int	The vendor id of the user, if applicable

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
UUS-1: Failure - Didn't give any fields to update (must have atleast 1) UUS-2: Exception - An unknown error occurred in updating the settings.

/vendors   (Directory)

All API endpoints related to vendors will go here. Including account managemenet for vendors and general vendor information requests.

/vendors/getvendors

Gets a list of all of the vendors. If the search name is specified, it will filter it.

Request Parameters:

Name	Type	Required	Notes
search_name	string	No	The name to filter by.

Response Parameters:

The response will be an array containing items with the following structure.

Name	Type	Notes
vendor_id	int	The id of the vendor.
slogan	string	The slogan of the vendor.
name	string	The name of the vendor
profile_picture	blob	The profile picture of the vendor.
longitude	double	The longitude of the vendor.
latitude	double	The latitude of the vendor.

Error Codes:

W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
GV-1: Exception - An unknown error occurred in getting the list of vendors.

/vendors/getvendorinfo

Gets the information for a specific vendor by their id.

Request Parameters:

Name	Type	Required	Notes
vendor_id	int	Yes	The id of the vendor to get the information of.

Response Parameters:

Name	Type	Notes
slogan	string	The slogan of the vendor.
name	string	The name of the vendor
description	string	The description of the vendor.
profile_picture	blob	The profile picture of the vendor.
background_picture	blob	The background picture of the vendor.
longitude	double	The longitude of the vendor.
latitude	double	The latitude of the vendor.

Error Codes:

W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.

GV-1: Failure - No vendor id was given.
GV-2: Failure - The given vendor id does not correspond to a vendor.
GV-3: Exception - An unknown error occurred in getting the vendor information.

/vendors/updatesettings

Used to update the settings of the vendor that sends the request. Used for changing slogan, description, background picture, etc.

Request Parameters:

Name	Type	Required	Notes
session_full_code	string	Yes	The session code for the session you wish to use
description	string	No	The new description for the vendor
background_picture	string	No	The new background picture for the vendor
longitude	blob	No	The new longitude for the vendor
latitude	string	No	The new latitude for the vendor
slogan	string	No	The new slogan for the vendor

Response Parameters:
None. Will return success if successful.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
VUS-1: Failure - User is not a vendor. VUS-2: Failure - Didn't give any fields to update (must have atleast 1) VUS-3: Exception - The user doesn't seem to exist, even though they are supposed to be a vendor. VUS-4: Exception - An unknown error occurred in updating the settings. VUS-5: Exception - An unknown error occurred.

/goods   (Directory)
All API endpoints related to goods that are sold by a vendor will go here. A vendor will send their goods with /vendor/getvendorinfo, but this can be used for general good lists, information, and management.

/goods/getgoods
Gets a list of all of the goods. If the search name is specified, it will filter it.
Request Parameters:

Name	Type	Required	Notes
name	string	Yes	The name to filter goods by.

Response Parameters:

The response will be an array containing goods with the follow structure.

Name	Type	Notes
good_id	number	The Good's id.
vendor_id	number	The id of the good's vendor.
description	string	The description of the good.
name	string	The name of the good.
stock	number	The stock of the good.
picture	blob	The picture of the good.
good_type	number	Number representing type of good.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
GG-1: Exception - An unknown error occurred in getting the list of goods.

/goods/getgoodinfo
Gets the information for a specific good by its id.
Request Parameters:

Name	Type	Required	Notes
good_id	int	Yes	The id of the good to get its information.

Response Parameters:

Name	Type	Notes
good_id	number	The Good's id.
vendor_id	number	The id of the good's vendor.
description	string	The description of the good.
name	string	The name of the good.
stock	number	The stock of the good.
picture	blob	The picture of the good.
good_type	number	Number representing type of good.

Error Codes:
W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.

W-6: Exception - An unknown error occurred in finding the session.
GGI-1: Failure - No good_id was given.
GGI-2: Failure - The given good id does not correspond to a good.
GGI-3: Exception - An unknown error occurred in getting the good information.

/goods/addgood

Adds a good to the database.

Request Parameters:

Name	Type	Required	Notes
session_full_code	string	Yes	The code for the session of the vendor adding the good.
name	string	Yes	Name of the good.
description	string	Yes	A description of the good.
picture	string	Yes	A picture of the good.
stock	int	Yes	The number of that good.
good_type	int	Yes	A value representing the good type.

Response Parameters:

None. Will return success if successful.

Error Codes:

W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
AG-1: Failure - The name or description is invalid.
AG-2: Exception - An unknown error happened while creating good.

/goods/updategood

Updates a good's attributes to the database.

Request Parameters:

Name	Type	Required	Notes
good_id	int	Yes	The id of the good to be changed.
description	string	Yes	Description of Good.
name	string	Yes	The name of the good.
picture	string	Yes	A picture of the good.
stock	int	Yes	The number of that good.
good_type	int	Yes	A value representing the good type.

Response Parameters:

None. Will return success if successful.

Error Codes:

W-0: Failure - Empty or null request body
W-1: Exception - An unknown error occurred in connecting to the database.
W-2: Exception - An unknown error occurred in the server.
W-3: Failure - session_full_code was empty or null.
W-4: Failure - session_full_code was invalid. Make sure its a valid session code received from /user/login.
W-5: Exception - An unknown error occurred in the server.
W-6: Exception - An unknown error occurred in finding the session.
UG-1: Failure - No values were found. Must input atleast one.

UG-2: Exception - Unable to edit good in the database.