

# **FARMO DEVELOPER NOTES**

## **Types of User: Inside the system**

1. Admin
2. SuperAdmin
3. Farmer
4. VerifiedFarmer
5. Consumer

## **Types of User: Outside the system**

Means this is for webpage, app which show to user.

- |             |   |
|-------------|---|
| 1. Admin    | <b> Admin = Admin   Admin = Super Admin[</b>        |
| 2. Farmer   | <b>]Farmer = Farmer   Farmer = Verified Farmer[</b> |
| 3. Consumer |   |

## **Connection Method: Between Server and User**

**POST**

**GET**

## **Profile Status:**

profile\_status = [

- **PENDING** – the profile is created but not yet reviewed or approved.
  - **ACTIVE** – the profile is verified and currently in use.
  - **SUSPENDED** – the profile is temporarily disabled due to issues or violations.
  - **DELETED** – the profile has been removed or deactivated permanently
- ]

## Possible Activity Types

THIS ACTIVITIES ARE USED TO TRACK THE USER ACTIVITIES. [USED IN BACKEND]

- **Authentication & Account**
  - LOGIN
  - LOGOUT
  - PASSWORD\_CHANGE
  - UPDATE\_PROFILE\_PIC
  - PROFILE\_UPDATE
  - VERIFICATION\_SUBMITTED
  - VERIFICATION\_APPROVED
  - VERIFICATION\_REJECTED
- **Wallet & Transactions**
  - WALLET\_CREATED
  - WALLET\_PIN\_CHANGED
  - WALLET\_TOPUP
  - WALLET\_DEBIT
  - TRANSACTION\_INITIATED
  - TRANSACTION\_SUCCESS
  - TRANSACTION\_FAILED
- **Products**
  - PRODUCT\_CREATED
  - PRODUCT\_UPDATED
  - PRODUCT\_DELETED
- **Orders**

- ORDER\_PLACED
  - ORDER\_UPDATED
  - ORDER\_CANCELLED
  - ORDER\_FULFILLED
- 
- **Ratings**
    - RATE\_PRODUCT
    - RATE\_FARMER
    - FARMER\_RATING\_UPDATE
    - PRODUCT\_RATING\_UPDATE
    - FARMER\_RATING\_DELETE
    - PRODUCT\_RATING\_DELETE
- 
- **General Activity**
    - SEARCH
    - VIEW\_PROFILE
    - ACTIVITY\_LOGGED - For other activity.

## **Important Point to Remember:**

**Use communication Terms to communicate between backend and Frontend as it is. No change in case. Like do not use **admin, farmer, pending** and **Login** instead of **Admin, Farmer, PENDING** and **login**.**

**Communications Terms:** User Types, profile status, Error code, terms inside “...”, etc.

### **Examples of Terms:**

Admin, SuperAdmin, Farmer, VerifiedFarmer, PENDING, ACTIVE, DELETED, login\_with\_token, login, register, user\_id, is\_admin, ACCOUNT\_INACTIVE, INVALID\_CREDENTIALS, login\_access.

[ **Note:** To separate all terms from others, they are written in “Green Letters” in this doc. But “Green Letters” itself is not a term. ]

## Login Mechanism: use POST Method

Path for “`login_with_token`” : ‘<https://...../api/auth/login-with-token/>’

Path for “`login`” : ‘<https://...../api/auth/login/>’

Step in login,

1. takes userID or Phone and Password from **user**.
2. Also collect extra two type of data internally in system i.e. **is\_admin** and **device\_info**
3. Send to server.
4. Server search user in database, if matches; server create token, refresh\_token for login.
5. Server send that token with refresh\_token and UserID back to User device.

User uses that token and UserID for any other request like for login, access something.

## User to Server: Data flow [request]

### First Login:

For Admin [Web]: Admin login every time.

{

“`identifier`” = userID or Phone [string]

“`password`” = password [String]

“`is_admin`” = True [Boolean]

“`device_info`” = Windows 11 Brave [String]

}

For Farmer/Comsumer[App]:

{

“`identifier`” = userID or Phone [string]

“`password`” = password [String]

“`is_admin`” = False [boolean]

“`device_info`” = Samsung A52 [String]

}

## **Second Login: Only after “remember me” checked.**

For Both:

```
{  
    “user_id” = xxxxxx [String]  
    “token” = xxxxxxxx [String]  
    “refresh_token” = xxxxxxxxx [String]  
    “is_admin” = True or False [boolean]  
    “device_info” = Samsung A52 [String]  
}
```

Server check “token” and “UserID” and give access.

## **Sever to User: [respond]**

### **Each time “First Login”**

For Both:

```
{  
    “login_access” = True [Boolean]  
    “token” = xxxxxx [String]  
    “refresh_token” = xxxxxxxxx [String]  
    “user_id” = xxxxxx [String]  
}
```

Save those data[token, refresh\_token and userID] in device.

### **Second Time Login if user checked remember me.**

```
{  
    “login_access” = True [Boolean]
```

```

    "token" = token or none
    "refresh_token" = refresh-token or none
    "user_id" = userID or none
}

```

### **If login token is expired:**

**[For User Expiry time: 40 days && For Admin Expiry time: 12 hrs]**

Generally, user send “token” and “userID” for login.

If token is expired. Server uses “refresh\_token” to create new “token” and send back to user.

```

{
    "login_access" = True [Boolean]
    "token" = xxxxxx [String]
    "refresh_token" = xxxxxxxx [String]
    "user_id" = xxxxxx [String]
}

```

### **Error Handling for Login:**

Type of Error [error\_code]:

- ⊕ **MISSING\_CREDENTIALS** - Missing identifier or password
- ⊕ **INVALID\_CREDENTIALS** - Wrong password
- ⊕ **ACCOUNT\_PENDING** - Account awaiting activation
- ⊕ **ACCOUNT\_INACTIVE** - Account blocked/suspended
- ⊕ **MISSING\_TOKENS\_OR\_USERID** – missing token or refresh token or user\_id
- ⊕ **INVALID\_TOKEN** - Token expired or invalid

### **Server to User: For Login failed [respond]**

```
{
}
```

```
“login_access” = False [Boolean]  
“error_code” = Code Word [String]  
{
```

**Example:** For Wrong Password

```
{  
“login_access” = False  
“error_code” = “INVALID_CREDENTIALS”  
}
```

**For Account Pending:**

It occurs only when Admin creates new user, then admin put any password and make profile Status pending.

To activate account, User [both types of user] have to login with that password given by admin and they have interface to change password with confirm password.

After changing password, account have activated and they again redirected in Login Page.

Then process goes to login.

## **Signup Mechanism: use both POST and GET Method**

Path for “register” : “[https://...../”](https://...../)

Fields:

1. userID [Required]
2. Password [Required]
3. First Name [Required]
4. Middle Name
5. Last Name [Required]
6. Sex [Required]
7. Date of Birth [Required]
8. User Type [Required]
9. Province [Required]
10. District [Required]
11. Municipal [Required]
12. Ward [Required]
13. Tole [Required]
14. Phone [Required]
15. Secondary Phone
16. Email
17. Facebook
18. WhatsApp
19. About
20. Profile Picture

### **Data Send To Server: [request]**

```
{  
    "user_id": userID  
    "password": Password  
    "f_name": First Name  
    "m_name": Middle Name  
    "l_name": Last Name  
    "sex": Sex  
    "dob": Date of Birth  
    "user_type": User Type
```

```
“province” : Province
“district” : District
“municipal” : Municipal
“ward” : Ward
“tole” : Tole
“phone” : Phone
“phone2” : Secondary Phone
“email” : Email
“facebook” : Facebook
“whatsapp” : WhatsApp
“about” : About
“profile_pic” : Profile Picture
“created_by” : Created_By
}
```

## **Server Response to Web/App:**

For Registration Faild:

```
{
  'registration_successful': False           [Boolean]
  'error_code': 'MISSING_REQUIRED_FIELDS'   [String]
}
```

For Registration Success:

```
{
  'registration_successful': True
}
```

## **For UserID:**

Path for '**check\_userid**' : 'https://...../api/auth/check-userid/,'

UserID needs to check constantly, entered userID is available or not.

If userID textbox is empty then nothing to worry about.

If a single or more characters are present, then box sent request to server to checked userID is available or not.

Request is to be sent in change in every character in textbox.

**Request:** App/Web to Server

```
{  
    "user_id" : UserID  
}
```

**Response:** Server to App/Web

```
{  
    "status" : 1 or 0 [Integer]  
}
```

Status Int mean:

1 → For Not Available

0 → For Available

## **For User Type:**

For Web:

**user\_type** = [SuperAdmin, Admin, Farmer, Consumer]

For App:

**user\_type** = [Farmer, Consumer]

## **For Created By: [PRIVILEGES]**

Values : [

    SuperAdmin – Access to create super-admin, admin, farmer and consumer [*Web*]

    Admin – Access to create farmer and consumer [*Web*]

    Itself – farmer and consumer create their account itself. [*App*]

]

In Web four items for Created By [Super Admin, Admin, Farmer and Consumer]

In App two items for Created By [Farmer and Consumer]

## **Error Handling in Signup/Register:**

Type of Error [error\_code]:

- ✚ **MISSING\_REQUIRED\_FIELDS** – Missing mandatory signup fields
- ✚ **USERID\_EXISTS** – User ID already exists
- ✚ **INSUFFICIENT\_PRIVILEGES** – Signup requires higher privileges. Means Admin do not allowed to created super-admin
- ✚ **PHONE\_NUMBER\_ACCOUNT\_LIMIT\_REACHED** – Phone number reached account limit. One phone number allowed to create maximum 3 accounts.
- ✚ **PHONE\_EXISTS\_ACTIVE\_ACCOUNT** – Phone already linked to active account. 1 phone number allowed to be have 1 **ACTIVE** account.
- ✚ **PROFILE\_PICTURE\_UPLOAD\_FAILED**

Example:

```
{  
    'registration_successful': False  
    'error_code': 'PHONE_EXISTS_ACTIVE_ACCOUNT'  
}
```