

Medicine Store Registration Validation - Quick Reference

What's Implemented

Your medicine store registration API now includes comprehensive validation for:

☒ GST Number Verification

- Validates 15-character format (e.g., **22AAAAA0000A1Z5**)
- Checks state code validity (01-37)
- Verifies structure: 2 state code + 10 PAN + entity + Z + checksum

☒ Pharmacy License Verification

- Validates format with 'PH' identifier
- State-specific pattern matching
- Minimum 8 characters with year requirement
- Examples: **CG-PH-2023-12345**, **DL/PH/2021/12345**

☒ Pincode-City-State Matching (Your Example!)

Example you mentioned: Dhamtari, Chhattisgarh - 493773

The system now validates:

- ☒ Pincode **493773** matches city **DHMTARI**
- ☒ Pincode **493773** matches state **CHHATTISGARH**
- ☒ Uses real India Post API for verification

What happens if wrong:

```
If user enters:  
- Pincode: 493773  
- City: DELHI  
- State: DELHI
```

```
Error: "Pincode 493773 does not belong to DELHI.  
      It belongs to Dhamtari district in Chhattisgarh."
```

☒ Additional Features

- Get list of all Indian states (38 states/UTs with GST codes)
- Get cities/districts by state
- Get pincode information (returns city, district, state, post offices)

API Endpoints

1. Register Store (with validation)

```
POST /api/v2/medicine-store/register
```

2. Get States List

```
GET /api/v2/medicine-store/states
```

3. Get Cities by State

```
GET /api/v2/medicine-store/cities/CHHATTISGARH
```

4. Verify Pincode

```
GET /api/v2/medicine-store/pincode/493773
```

Testing Your Example

```
# 1. Check pincode 493773
curl http://localhost:3000/api/v2/medicine-store/pincode/493773

# Response will show:
# {
#   "pincode": "493773",
#   "district": "Dhamtari",
#   "state": "Chhattisgarh",
#   ...
# }

# 2. Register store with correct data (WILL PASS ☒)
curl -X POST http://localhost:3000/api/v2/medicine-store/register \
  -H "Content-Type: application/json" \
  -d '{
    "userName": "Rajesh Kumar",
    "email": "store@dhamtari.com",
    "phone": "9876543210",
    "storeName": "Dhamtari MediCare",
    "storeType": "Retail",
    "GSTNumber": "22AAAAA0000A1Z5",
    "pharmacyLicence": "CG-PH-2023-12345",
  }'
```

```
"address": "Main Road",  
"city": "DHAMTARI",  
"state": "CHHATTISGARH",  
"pincode": "493773"  
'}
```

3. Try with wrong city (WILL FAIL ❌)

```
curl -X POST http://localhost:3000/api/v2/medicine-store/register \  
-H "Content-Type: application/json" \  
-d '{  
  "city": "RAIPUR",  
  "state": "CHHATTISGARH",  
  "pincode": "493773",  
  ...  
'}
```

Error: "Pincode 493773 does not belong to RAIPUR"

Files Created

1. [Utils/validators.ts](#) - GST, pharmacy license, pincode validators
2. [Utils/pincodeService.ts](#) - India Post API integration, state/city data
3. [Services/medicineStore.Service.ts](#) - Registration with validations
4. [Routers/Routers/medicineStore.Routes.ts](#) - Route definitions
5. [docs/MEDICINE_STORE_API.md](#) - Complete API documentation

Full Documentation

See [docs/MEDICINE_STORE_API.md](#) for:

- Complete API documentation
- All validation rules
- Example requests/responses
- Testing with cURL
- Implementation details

How It Works

User Registration Flow:

1. User submits: Pincode 493773 + City DHAMTARI
+ State CHHATTISGARH

↓

2. System validates GST format, Pharmacy License

↓

3. System calls India Post API for pincode 493773

API returns: District=Dhamtari, State=CG



4. System compares:

User's city: DHAMTARI ☒ matches Dhamtari

User's state: CHHATTISGARH ☒ matches CG




5. ☒ All validations passed!
Registration proceeds

Next Steps (TODO)

The validation is complete. You may want to add:

1. Database persistence (saving the store record)
2. Document upload (license images)
3. Owner verification (link to user account)
4. Email/SMS OTP verification
5. Admin approval workflow

 **Your requirement is implemented!** The API now verifies GST, Pharmacy License, and validates that pincode 493773 truly belongs to Dhamtari district in Chhattisgarh state.