Flow Chart for Inventory Management System

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  ┌─────────┐      ┌──────────────┐      ┌──────────────┐
  │  Start  │─────▶│  Main Menu   │─────▶│ Input Choice │─────▶ ◇ if choice =1 ──Yes──▶ ┌──────────┐
  └─────────┘      │   Add Item   │      └──────────────┘         │                      │ Add Item │─────────────────┐
                   │Update,Remove │                               No                     └──────────┘                 │
                   │item,Search Item│                             │                                                    │
                   └──────────────┘                               ▼                                                    │
                                                          ◇ if choice =2 ──Yes──▶ ┌────────┐                           │
                                                                  │               │ Update │───────────────────────────┤
                                                                  No              └────────┘                           │
                                                                  │                                                    ▼
                                                          ◇ if choice =3 ──Yes──▶ ┌────────┐               ┌──────────┐
                                                                  │               │ Remove │──────────────▶│   End    │
                                                                  No              └────────┘               └──────────┘
                                                                  │                                                    ▲
                                                          ◇ if choice =4 ──Yes──▶ ┌────────┐                           │
                                                                  │               │ Search │───────────────────────────┤
                                                                  No              └────────┘                           │
                                                                  │                                                    │
                                                          ◇ If choice =5 ──Yes──▶ ┌────────┐                           │
                                                                  │               │ Delete │───────────────────────────┤
                                                                  No              └────────┘                           │
                                                                  │                                                    │
                                                          ◇ If choice =6      ┌────────────────┐                       │
                                                                  │           │  Print Invalid │───────────────────────┘
                                                                  └───Yes────▶│     Choice     │
                                                                              └────────────────┘
```

Add New Product

Add New Product → Enter Product Details → P_Id, P_Name, P_Quantity → If product id found

- If product id found — **Yes** → Add to Database → Print Product is Added → Return
- If product id found — **No** → Return

Update Product

Update Product → Enter Product_Id → If Product_Id is Found

- If Product_Id is Found — **Yes** → Update the product → Return
- If Product_Id is Found — **NO** → Return

Fetch Product_Details

Fetch Product_Details → Input Product_id → If Product is found

- If Product is found — **Yes** → Product Id is Found → Print Product_Details → Return
- If Product is found — **no** → Product_id not found → Return

Delete Product

Delete Product → Input Product_id → If product_id Found

- If product_id Found — **Yes** → Product_id Found → Delete Product details → Return
- If product_id Found — **No** → Product_id not found to delete → Return