

# AbuByte POS – Windows Setup Guide

## *Production-Ready Windows Desktop Point of Sale System*

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### PAGE 1 — QUICK START GUIDE





#### System Requirements

- **OS:** Windows 10 or higher (64-bit)
  - **Flutter:** Version 3.13.0+ (for development)
  - **Firebase Account:** Full project included
  - **RAM:** 4GB minimum, 8GB recommended
  - **Storage:** 500MB free space
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#### 15-Minute Setup Process

##### Step 1: Receive Assets

You'll receive:

-  Complete Flutter source code
-  Firebase project credentials
-  Admin user creation script
-  Pre-configured database

##### Step 2: Environment Setup

# Extract the AbuByte POS package

`cd C:\AbuByte_POS`

# Install Flutter for Windows (if not already installed)

# Download link: <https://flutter.dev>

##### Step 3: Firebase Project Access

- Complete Firebase project ownership is transferred
- No manual configuration needed
- Immediate access to live database and authentication

#### Step 4: Create Admin User

```
cd firebase-admin-script
```

```
npm install
```

```
node createAdminUser.js
```

#### Interactive Prompts:

- Owner email: admin@yourbusiness.com
- Temporary password: [your-password]
- Owner display name: [Your Name]

#### Step 5: Launch Application

```
# Run in development mode
```

```
flutter run -d windows
```

```
# Or build executable
```

```
flutter build windows
```

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## PAGE 2 — ARCHITECTURE & FIREBASE SETUP

### Complete Firebase Project Included

Features provided:

- Firebase Authentication (email/password users)
- Firestore Database (business data)
- Firebase Storage (product images)
- Pre-configured Security Rules
- Existing Data Structure

### Firebase Project Structure

```
your-firebase-project/
```

```
|— Authentication/
```

```
|   |— Users (admin/cashier roles)
```

```
|— Firestore/
| |— businesses/{businessId}
| |— users/{userId}
| |— products/{productId}
| |— sales/{saleId}
| |— categories/{categoryId}
| |— settings/{businessId}
|— Storage/
  |— product-images/{imageId}
```

## Admin User Creation Script

### Location:

[AbuByte\\_POS/](#)

```
|— firebase-admin-script/
  |— createAdminUser.js
  |— package.json
  |— serviceAccountKey.json
```

### Functionality:

1. Creates Firebase Auth user via REST API
2. Assigns 'admin' role in Firestore
3. Creates business document for admin
4. Sets up full user profile

### Running the Script:

```
cd firebase-admin-script
```

```
npm install
```

```
node createAdminUser.js
```

Follow interactive prompts for email, password, display name — script handles the rest automatically.

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## Application Architecture (Windows-Specific)

### Features:

- Native Windows window management
- System tray integration
- Windows file system access
- Receipt printing support
- Desktop-optimized keyboard shortcuts

### Data Flow:

Windows UI → Flutter Providers → Hive Local DB → Sync Queue → Firebase

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Instant Offline Operation ←—————┐

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## PAGE 3 — DEPLOYMENT & MAINTENANCE

### Production Deployment

#### Build Windows Executable:

`flutter build windows --release`

# Output: build/windows/runner/Release/AbuByte\_POS.exe

#### Distribution Options:

1. Direct EXE deployment
2. Network deployment across multiple stores
3. Windows installer package (optional)

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## Firestore Management

### Post-Purchase Steps:

1. Transfer Firestore project to your Google account
2. Update billing information

3. Review pre-configured security rules
4. Monitor usage via Firebase console

### **Cost Management:**

- Firestore: ~\$0.06/100K reads (~\$10–50/month typical)
  - Authentication: Free up to 50K monthly users
  - Storage: ~\$0.026/GB/month
- 

### **Multi-Store Setup**

# Run admin script for each store

`node createAdminUser.js`

# → Enter store-specific details

- Each store has isolated data and users
  - No cross-business data access
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### **Backup & Maintenance**

#### **Data Backup:**

- Export Firestore via console
- Or CSV export from Reports section

#### **Regular Maintenance:**





1. Monitor sync status
  2. Clear completed sync tasks
  3. Update product images
  4. Review sales reports
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### **Troubleshooting**








Issue	Solution
<b>Sync Not Working</b>	Check internet, verify Firebase access, review security rules
<b>Admin Script Fails</b>	Ensure Node.js installed, serviceAccountKey.json present, verify API key
<b>Build Errors</b>	Check Flutter desktop setup, Visual Studio build tools, Windows 10 SDK installed

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## Support Resources

-  Full source code documentation
  -  30-day transition support
  -  Firebase handover guidance
  -  Windows deployment instructions
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## Next Steps After Purchase

1.  Receive Firebase transfer
  2.  Build Windows executable
  3.  Create admin users
  4.  Load product catalog
  5.  Train staff on POS interface
  6.  Deploy to terminals
  7.  Go live with confidence!
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**AbuByte POS – Windows Desktop POS**

*Ready for Immediate Deployment* 