Pre-Build Checklist for Sales Dashboard EXE

Before running the build, verify all these items are in place.

System Requirements

- Docker Desktop installed and running
- At least 10 GB free disk space
- Windows 10/11 or Linux with Docker
- ☐ Internet connection (for downloading dependencies)

Project Files

Create this directory structure:

SalesDashboard/
app.py
— Dockerfile
requirements.txt
— build_windows_exe.bat
shapefiles/
L— adm01.xml

Checklist

Files to Include

- **app.py** Main application code
 - Contains Streamlit dashboard
 - Handles CSV uploads
 - Converts Month numbers to names
 - Creates geographic maps
- Dockerfile Docker build configuration
- Sets up build environment
- Installs all dependencies
- Runs PyInstaller
- **requirements.txt** Python dependencies
- All pip packages listed
- Specific versions pinned
- **build_windows_exe.bat** Windows build script
 - Runs Docker build
 - Generates EXE file

Shapefile Files (All Required)

- **adm01.shp** Shapefile geometry
- **adm01.shx** Shapefile index
- **adm01.dbf** Attribute database
- **adm01.prj** Projection information
- **adm01.sbn** Spatial index

adm01.sbx - Spatial index
adm01.cpg - Code page
adm01.json - Optional GeoJSON version
adm01.xml - Optional metadata
CSV Data Format
Your test CSV should have these columns:
Amount_(BDT) - Numeric (sales amount)
Qty_(Pcs) - Numeric (quantity pieces)
Qty_(KG) - Numeric (quantity kilograms)
Year - Numeric (e.g., 2023)
Month - Numeric 1-12 (1=January, 12=December)
Brand - Text (optional)
DivName - Text (optional)
AdmDiv - Text matching shapefile divisions (optional, for maps)
Example valid Month values:
1 = January
2 = February
3 = March
4 = April
□ 5 = May
6 = June
\Box 7 = July
8 = August
9 = September
10 = October

11 = November
12 = December
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Build Steps
Navigate to project folder in Command Prompt
Verify Docker is running (dockerversion)
Run (build_windows_exe.bat)
Wait 20-40 minutes for build to complete
Check dist/ folder for SalesDashboard.exe
Testing After Build
Double-click (SalesDashboard.exe)
Wait for browser window to open (first run takes 10-15 seconds)
Upload a test CSV file
Verify data loads correctly
Check if months display as names (January, February, etc.)
Test generating a map
Test downloading data
Distribution
Copy only (SalesDashboard.exe) to target machines
No additional files needed
No Python installation required on target machines
Users just double-click the EXE
Froubleshooting

If build fails:

Check Docker is running
☐ Verify all files are in correct locations
Delete dist/) folder and retry
Run docker system prune to free space
☐ Check available disk space (need 10GB+)
If EXE doesn't run:
Check Windows Defender/Antivirus not blocking i
Run from Command Prompt to see error messages
☐ Verify shapefile files are present in folder
☐ Check Windows 10/11 is fully updated
If CSV upload fails:
☐ Verify CSV is comma-separated
Check column names match exactly
☐ Ensure Month column has numeric values 1-12
\square Test with smaller CSV first (< 10,000 rows)

File Size Expectations

- SalesDashboard.exe size: 400-600 MB
- Installation size when run: 1-1.5 GB
- Runtime memory usage: 500MB-1GB
- Typical CSV data: Size depends on records

Additional Notes

• First run will be slower (extracting bundled files)

- Subsequent runs will be faster
- Temporary files stored in Windows %TEMP% folder
- Application uses port 8501 for web interface
- Multiple EXE instances can't run on same port

Ready to build? Run: (build_windows_exe.bat)