

Boeing Printer Parts Lookup - Complete Setup Guide

Overview

This app lets you search printers by Asset Number and instantly see:

- Printer location (floor/room)
- Model information
- Required parts with current stock levels from BarCloud

Prerequisites

- Node.js 16+ installed
 - Your two Excel files ready:
 - `AssetGroup_AllAssets4dfed.xls` (48 active printers from XSM)
 - `Export 1.xlsx` (inventory from BarCloud)
-

Step-by-Step Setup

1. Create Project Structure

```
bash

mkdir printer-parts-lookup
cd printer-parts-lookup
mkdir public database
```

2. Copy All Code Files

Copy these files I created above into your project:

Root directory:

- `package.json`
- `server.js`
- `discloud.config`
- `.env` (create with content below)

public/ folder:

- `index.html`
- `style.css`
- `app.js`

database/ folder:

- `schema.sql`
- `seed.js` (use the final version)
- `convert-excel.js`

3. Create .env File

Create `.env` in the root folder:

```
env

PORT=8080
SESSION_SECRET=change-this-to-random-string-in-production
NODE_ENV=development
```

4. Install Dependencies

```
bash

npm install
```

This installs:

- express (web server)
- express-session (login sessions)
- bcrypt (password hashing)
- better-sqlite3 (database)
- dotenv (environment variables)
- cors & helmet (security)
- xlsx (Excel reading)

5. Prepare Your Data

```
bash
```

```
# Copy your Excel files to the database folder
cp /path/to/AssetGroup_AllAssets4dfed.xls database/
cp /path/to/"Export 1.xlsx" database/

# Convert Excel to JSON
node database/convert-excel.js
```

This creates three JSON files:

- `printers.json` (48 printers)
- `inventory.json` (42 unique SKUs)
- `model-parts.json` (mappings between models and parts)

6. Seed the Database

```
bash

node database/seed.js
```

This creates `database/printers.db` with all your data and a default user.

7. Test Locally


```
bash

npm start
```

Visit: <http://localhost:8080>

Default Login:

- Username: `admin`
- Password: `boeing2025`

 **IMPORTANT:** Change this password before deploying!

8. Test the Search

Try searching for an asset number from your list, for example:

- `A4064127`
- Any other asset number from your 48 printers

You should see:

- Printer details (model, floor, room)
 - List of required parts
 - Current stock levels for each part
-

Deploying to Discloud

Prerequisites

- Discloud account with Platinum plan or higher (required for APIs)
- Your project working locally

Steps

1. Update .env for production:

```
env

PORT=8080
SESSION_SECRET=your-super-secret-random-string-here
NODE_ENV=production
```

2. Create .gitignore:

```
node_modules/
.env
database/*.xls
database/*.xlsx
database/*.json
npm-debug.log
```

3. Package your project:

```
bash
```

```
# Make sure database/printers.db exists and has your data
# Remove Excel files (they're already converted)
rm database/*.xls database/*.xlsx

# Create a zip file
zip -r printer-parts-lookup.zip . -x "node_modules/*" ".git/*"
```

4. Upload to Discloud:

- Log into Discloud dashboard
- Create new application
- Upload `printer-parts-lookup.zip`
- Set environment variables:
 - `SESSION_SECRET`: (your random secret)
 - `NODE_ENV`: `production`

5. Discloud will automatically:

- Run `npm install`
- Start your app with `node server.js`
- Make it available at your Discloud URL

File Structure Reference

```
printer-parts-lookup/
├── package.json      # Dependencies and scripts
├── server.js         # Express server
├── discloud.config    # Discloud deployment config
├── .env              # Environment variables
├── .gitignore        # Files to ignore in git
├──
├── public/          # Frontend files
│   ├── index.html    # Main HTML page
│   ├── style.css     # Styling
│   └── app.js        # Frontend JavaScript
├──
└── database/        # Database files
    ├── schema.sql    # Database structure
    └── seed.js       # Data seeding script
```

```
|— convert-excel.js    # Excel to JSON converter
|— printers.db        # SQLite database (generated)
|— printers.json      # Converted printer data
|— inventory.json     # Converted inventory data
|— model-parts.json   # Model-part mappings
```

Common Commands

```
bash

# Install dependencies
npm install

# Convert Excel files to JSON
node database/convert-excel.js

# Set up database
node database/seed.js

# Run locally (development)
npm start

# Run with auto-reload (requires nodemon)
npm run dev
```

Troubleshooting

"File not found" during conversion

- Make sure Excel files are in the `database/` folder
- Check file names match exactly

"Login failed"

- Make sure you ran `node database/seed.js`
- Check browser console for errors
- Default credentials: admin / boeing2025

"Printer not found"

- Asset numbers are case-sensitive
- Make sure data was seeded correctly
- Check `database/printers.db` exists

Port already in use

- Change PORT in `.env` to a different number (e.g., 3000)
 - Or stop the other process using port 8080
-

Security Notes

1. **Change default password** before deploying
 2. **Set strong SESSION_SECRET** (use a password generator)
 3. **Enable HTTPS** when deploying (Discloud handles this)
 4. **Don't commit .env** to git
 5. **Don't commit Excel files** to git
-

Next Steps (Future Enhancements)

1. **BarCloud API Integration**
 - Auto-sync inventory without manual exports
 - Real-time stock updates
2. **Multi-user Support**
 - Add user registration
 - Role-based permissions
3. **Advanced Features**
 - QR code scanning
 - Low stock alerts
 - Order management
 - Physical location tracking (with shelf codes)
4. **Mobile App**
 - React Native version

- Offline mode with sync
-

Support

If you run into issues:

1. Check the console logs (`npm start` output)
 2. Check browser console (F12 → Console tab)
 3. Verify your Excel files have the correct structure
 4. Make sure all files are copied correctly
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You now have everything you need to run the app!

Start with step 1 and work through the setup. Once it's running locally and you've tested it, you can deploy to Discloud.