

Shopify B2B Sync Integration (Google Sheets -> Shopify)

Tech Stack: Node.js, Shopify GraphQL Admin API, Google Sheets API

(Goal) Objective

Automate the creation and linking of companies and customers in Shopify based on data stored in a Google Sheet.

(Features) Key Features

- Read structured company + customer data from a Google Sheet
- Create companies using Shopify's B2B GraphQL API
- Create customers and link them to companies as contacts
- Avoid duplicates via basic matching logic (by name or email)

(Structure) Project Structure

shopify-b2b-sync/

```
.env          # Environment variables
index.js      # Main entry point
services/
  sheetsService.js  # Reads from Google Sheets
  shopifyService.js # Shopify GraphQL API calls
  syncService.js    # Orchestrates sync logic
```

```
utils/
  gqlHelper.js      # (Optional) GraphQL builders
```

package.json

README.md

(Auth) Environment Variables (.env)

SHOPIFY_STORE_DOMAIN=your-store.myshopify.com

SHOPIFY_ADMIN_TOKEN=shpat_abc123

SHOPIFY_API_VERSION=2024-04

GOOGLE_SHEET_ID=your_google_sheet_id

GOOGLE_SERVICE_ACCOUNT_CREDENTIALS=./credentials.json

(Dependencies) Dependencies

npm install dotenv axios googleapis graphql

(Modules) Core Modules

- sheetsService.js
- Authenticates with Google Sheets using a service account
- Reads data from a spreadsheet and returns structured JSON:

```
[
  {
    companyName: 'Acme Inc',
    address: { ... },
    customer: {
      email: 'john@example.com',
      firstName: 'John',
      lastName: 'Doe',
      role: 'ADMIN'
    }
  },
  ...
]
```

- shopifyService.js
- Uses Shopify Admin GraphQL API to:
 - Create companies
 - Create customers
 - Link customers to companies (via companyContactCreate mutation)
- Uses axios to post GraphQL requests

- syncService.js
- Loops through all sheet rows:
 - Creates company if not already created
 - Creates customer if not already created
 - Links customer to company
 - Logs status/errors

(Entrypoint) Entrypoint (index.js)

```
require('dotenv').config();
```

```
const { syncCompaniesAndCustomers } = require('./services/syncService');
```

```
(async () => {
```

```
  await syncCompaniesAndCustomers();
```

```
})();
```

(Enhancements) Optional Enhancements

- Add deduplication (check for existing company/customer before creation)
- Add error logging and reporting
- Trigger syncs via webhook or schedule
- Retry failed API calls

(Notes) Notes

- This integration requires Shopify Plus for B2B company support.
- All company-related GraphQL mutations are available only in the Shopify Admin GraphQL API (not REST).