Amazon Retail Reporting System
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Problem
Redesigned Retail is an Amazon consulting agency that works exclusively with brands and manufacturers and helps them maximize the benefits of using Amazon. The company creates business reports that along with Amazon’s fulfillment program (FBA), promote vertical integration, allowing clients to sell directly to consumers.

Presently, Redesigned Retail manually retrieves data from Amazon’s seller portals and copies data into Microsoft excel spreadsheets to generate business reports. Such a process is time-consuming, often taking up to 30 hours of work per week, posing a challenge as the company continues to grow.

Solution
To reduce processing time and avoid the manual process, this research project includes a software system developed to retrieve data from Amazon through Amazon Marketplace Web Service, store data into a local database and provide a web application for the clients of Redesigned Retail to access reports, automating every step of the process. Such a software system not only allows the business to scale, but also enhances the quality of the service that Redesigned Retail can provide to its customers.

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Project Sponsor - Kyle Herman, Redesigned Retail Inc. & Indiana Next Generation Manufacturing Competitiveness Center (IN-MaC)

Introduction
Redesigned Retail is an Amazon consulting agency that works exclusively with brands and manufacturers and helps them maximize the benefits of using Amazon. The company creates business reports that along with Amazon’s fulfillment program (FBA), promote vertical integration, allowing clients to sell directly to consumers.

Design Components
The application consists of two parts: web app to display reports and a backend program that automatically downloads reports to update the data.

The website is hosted on Amazon’s Web Services using an EC2 instance.

References:
https://expressjs.com/en/4x/api.html
https://datatables.net/manual/index
https://nodejs.org/dist/latest-v10.x/docs/api/
https://mochajs.org/api/mocha