**Business Proposal: Dynamic Parts Resale Platform**

**Executive Summary**

This proposal outlines a profitable and scalable business model for acquiring wrecked motorcycles, parting them out, and reselling the components through a self-built, dynamic multi-platform sales system. By leveraging online auctions, efficient disassembly and storage, and a custom inventory/sales tracking tool, the business aims to generate high return on investment (ROI) per vehicle while maintaining lean operational overhead.

**Business Overview**

The business focuses on recycling motorcycles by purchasing damaged or salvaged bikes from auctions (e.g., Copart, IAAI), stripping them for usable parts, and listing those parts for resale. The resale will primarily target platforms like eBay initially, with optional future expansions to Facebook Marketplace, Shopify, and other local or digital channels.

**Value Proposition**

* High ROI: A $900 wrecked motorcycle can yield $2,000–$3,000 in parts revenue.
* Low Storage Footprint: Motorcycle parts are compact and can be stored in lockers.
* High Demand: Riders regularly look for OEM parts to repair or customize.
* Flexible Platform: Custom-built software enables cross-listing on multiple marketplaces.

**Target Inventory**

* Popular motorcycle brands with active repair/modding communities:
  + Honda (CBR, Grom, CRF)
  + Yamaha (R6, R1, MT series)
  + Kawasaki (Ninja series)
  + Suzuki (GSX-R, SV650)
  + Harley-Davidson (Sportster, Dyna)

**Storage Plan**

* Lockers or small storage units organized by bin codes (e.g., LKR-2A, BIN-B12)
* Ziplock bags and bins for small parts
* Each part labeled with Make, Model, Year, and OEM Number (if available)

**Software System**

A custom Python/FastAPI backend will power inventory management, platform integrations, and ROI tracking.

**Database Schema Highlights**

* **Vehicle**: stores make, model, year, VIN, purchase price, and status.
* **Part**: represents individual components with value estimates, location, and sale status.
* **Listing**: captures platform-specific sale information for each part.

**Enum Types**

* VehicleStatus: PURCHASED, PARTED\_OUT, CLOSED\_OUT
* PartStatus: IN\_BIN, LISTED, SOLD, SCRAPPED
* Platform: EBAY, FACEBOOK, SHOPIFY, LOCAL
* ListingStatus: DRAFT, LIVE, SOLD, ENDED

**Profit Calculation**

Each part’s profit is calculated as:

(sold\_price - shipping\_cost) - allocated vehicle cost

Vehicle cost is prorated based on estimated part value.

**API Endpoints**

* POST /vehicles – Add a new bike
* POST /vehicles/{id}/parts – Bulk create parts
* POST /parts/{id}/list – List part on selected platform
* PATCH /parts/{id} – Update part status or sale data
* GET /dashboard/roi – View ROI and sales metrics

**Dashboard Metrics**

* ROI per vehicle and platform
* Average days-to-sale per platform
* Sell-through rate by brand/model
* Locker/bin utilization and turnover rate

**Dynamic Platform Support**

The system uses a strategy pattern to support multiple selling platforms:

* A base PlatformClient interface is defined
* Each platform has its own client class (e.g., eBayClient, FacebookClient)
* Business logic routes to the appropriate client at runtime

This approach ensures:

* Platform-agnostic business logic
* Easy expansion to new platforms
* Unified inventory and profit tracking

**Revenue Model & Projections**

| **Example Bike** | **Purchase** | **Est. Parts Revenue** | **Est. Net Profit** |
| --- | --- | --- | --- |
| 2008 Yamaha R6 (wrecked) | $900 | $2,500 | $1,400 |
| 2015 Grom (flood) | $500 | $1,200 | $600 |

By scaling to 5–10 bikes/month, expected profits can exceed $7,000–$10,000/month once processes are streamlined.

**Future Enhancements**

* Cross-listing with stock syncing
* QR/barcode scanner integration for part lookup
* Label printing and shipping automation
* YouTube channel for teardown content + marketing

**Conclusion**

This motorcycle parts resale business combines the high ROI potential of salvage vehicle recycling with the efficiency of custom-built software. By focusing on lean operations, dynamic selling, and targeted inventory, the business is positioned for rapid growth and future platform expansion.

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