Site Structure and Navigation for Luki's Garage Network (LGN)

This document details the planned page hierarchy, purpose, and navigation model for the Luki's Garage Network platform, built on the foundations of providing technical accuracy and build management for automotive enthusiasts.

1. Simulated User Flowchart

The navigation model is designed for a logged-in user to quickly access vehicle-specific data. The flowchart below illustrates the main logic path a user follows to manage their build and find technical information, simulating the output of a flow diagram tool.

```
[START]

 |

 V

[Landing Page / Marketing]

  | (Global Header Access)

 |

+--V--+

| Sign In / Sign Up (Auth)

+--+--+

 |

 V

[My Garage (Dashboard)] <---(Selects a specific vehicle)

 |

 |---(Path 1: Need Technical Info)---------------------------> [Technical Library]

 |    |                                         |

 |    V                                         V
```
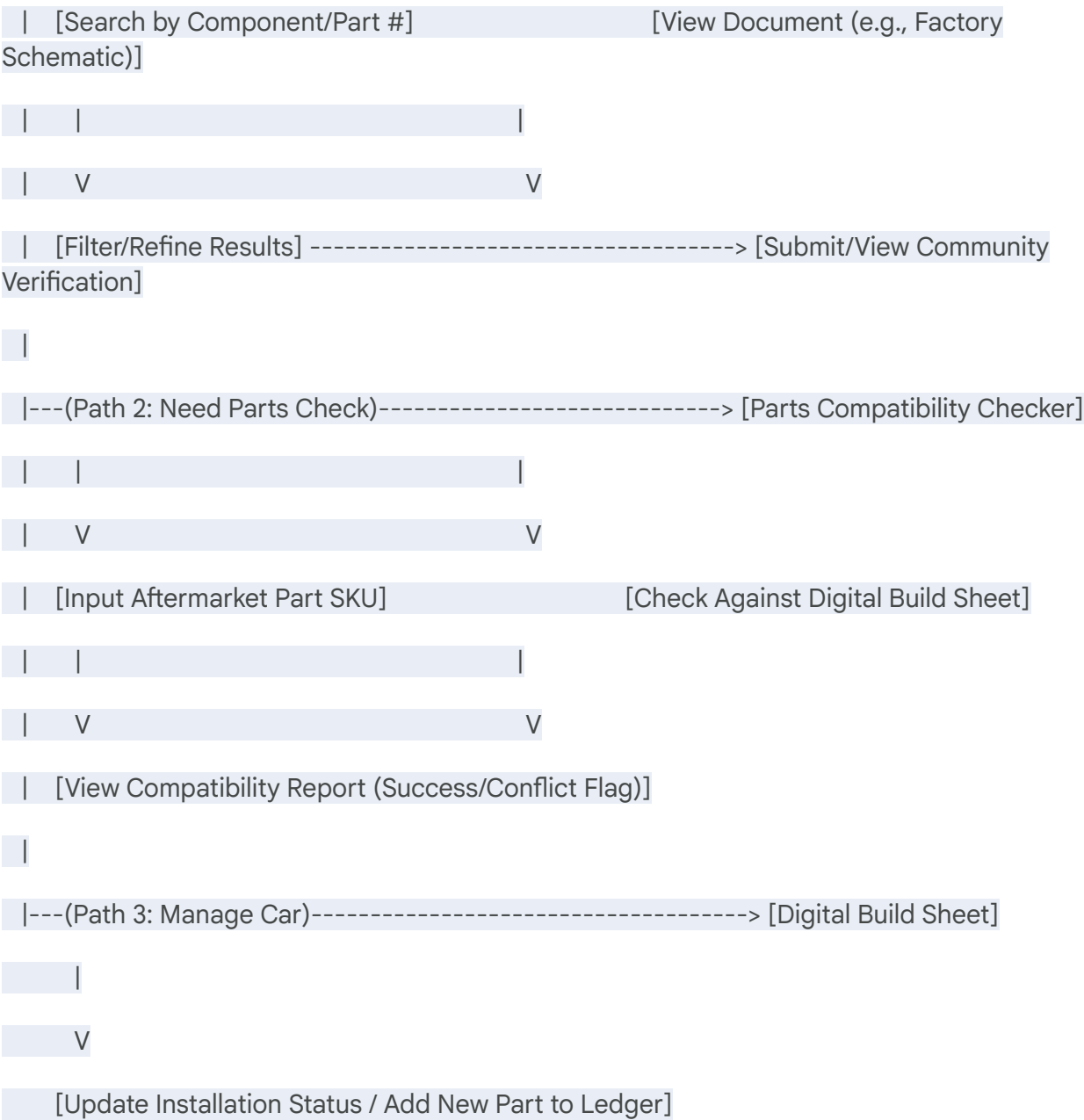
```
   |   [Search by Component/Part #]                          [View Document (e.g., Factory
Schematic)]

   |      |                                    |

   |      V                                    V

   |   [Filter/Refine Results] ---------------------------------> [Submit/View Community
Verification]

   |

   |---(Path 2: Need Parts Check)----------------------------> [Parts Compatibility Checker]

   |      |                                    |

   |      V                                    V

   |   [Input Aftermarket Part SKU]                     [Check Against Digital Build Sheet]

   |      |                                    |

   |      V                                    V

   |   [View Compatibility Report (Success/Conflict Flag)]

   |

   |---(Path 3: Manage Car)-----------------------------------> [Digital Build Sheet]

      |

      V

   [Update Installation Status / Add New Part to Ledger]
```

2. Planned Pages and Purpose (Site Map)

The site structure is organized into six main **Parent Pages** accessed via the global navigation, with supporting **Child Pages** offering specific utility and content.

Page	Page Name	Purpose of Page	Parent Page

Type			
Parent	**Home**	Marketing, value proposition display, and entry point for new users. Features rotating "Master Guides."	N/A
Parent	**My Garage**	The central logged-in dashboard. Displays saved vehicles, recent build activity, and contextual quick links.	N/A
Child	Digital Build Sheet	Detailed ledger of a specific vehicle's modifications, maintenance history, and current parts status.	My Garage
Child	Vehicle Selector	Interface for users to add, edit, or switch between the multiple vehicles they manage on the platform.	My Garage
Parent	**Technical Library**	Centralized, highly searchable repository for all verified technical documentation.	N/A
Child	Schematics & Diagrams	Holds factory service manuals, exploded parts views, and complex wiring diagrams (verified content).	Technical Library

Child	Installation Guides	Contains community-submitted, peer-reviewed "How-To" guides for popular modifications, complete with tool lists and difficulty ratings.	Technical Library
Parent	**Parts & Tools**	Houses specialized utility applications designed to prevent costly build errors.	N/A
Child	Compatibility Checker	The core tool that analyzes a potential new part against a user's *Digital Build Sheet* to identify fitment conflicts.	Parts & Tools
Child	Specialist Directory	Geographically searchable database of trusted performance shops, specialized tuners, and dyno facilities.	Parts & Tools
Parent	**Community**	Hub for user interaction, content contribution, and managing trusted status.	N/A
Child	User Profile	Displays the user's public builds (if enabled), contribution history, and "Verified Member" status.	Community
Child	Submission & Review	Interface for users to submit new content (guides) or participate in the crucial verification and rating process for existing technical documents.	Community

3. Navigation Explanation

The **Luki's Garage Network (AGN)** navigation is engineered for **speed and context**, recognizing that users often need critical technical data quickly while working on a vehicle. A **persistent global header** features the six main parent links, which remain accessible from any page. The "My Garage" dashboard acts as the primary **contextual hub** after login; once a user selects a vehicle here, all subsequent searches, compatibility checks, and guide lookups are filtered to that specific car model by default. A high-priority search bar is visible across all pages, utilizing instant-search technology to index both specific **OEM and aftermarket part numbers** alongside **document titles**, ensuring that the required technical intelligence is only a few keystrokes away.