AutoMarketPro Car Marketplace

IEEE-Style Project Documentation and Case Study

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Figure 1. Project visual identity used in the portfolio website.

Abstract

AutoMarketPro Car Marketplace is documented as a professional portfolio case study by Muhammad Haider Abbas. The project demonstrates practical capability in Web Systems through a structured problem-solution design, implementation direction, testing plan and future development roadmap. The report explains the business or academic motivation, system requirements, architecture, workflow, quality considerations and expected professional value of the project. It is prepared for use as downloadable portfolio evidence for recruiters, clients and academic reviewers.

Keywords: Web Systems, In Progress, Full-Stack Developer, PHP, MySQL, Stripe, Marketplace

I. Project Profile

Field	Details
Project Title	AutoMarketPro Car Marketplace
Category	Web Systems
Year	2026
Role	Full-Stack Developer
Status	In Progress
Tools	PHP, MySQL, Stripe, Admin/User Panels
Portfolio Slug	automarketpro-car-marketplace

II. Introduction and Problem Context

This document presents the technical and professional documentation for AutoMarketPro Car Marketplace. The project is positioned as a in progress in the Web Systems category. The work highlights the author's ability to combine technical implementation, documentation discipline and outcome-focused project thinking. The project summary is: A car-selling marketplace with seller ads, subscriptions, Stripe checkout, image uploads and admin moderation.

A. Problem Statement

Car-selling platforms need listing control, payment workflows, admin moderation and clean search/filtering.

B. Proposed Solution

The system connects seller ad posting with subscription packages, Stripe checkout and admin review tools.

III. Aim and Objectives

To build a monetisable car-selling marketplace with seller listings, subscription packages, image uploads, payments and admin moderation.

- Allow sellers to create and manage vehicle ads.
- Support paid posting packages and featured listing upgrades.
- Provide buyer browsing, search and filtering direction.
- Enable admin moderation for quality and trust.
- Prepare payment and webhook workflow with Stripe.

IV. Requirements Analysis

ID	Requirement	Type	Priority
FR-01	Seller registration	Functional / project requirement	Required
FR-02	Vehicle listing form	Functional / project requirement	Required
FR-03	Image upload validation	Functional / project requirement	Required
FR-04	Subscription packages	Functional / project requirement	Required
FR-05	Stripe checkout	Functional / project requirement	Required
FR-06	Admin approval	Functional / project requirement	Required
FR-07	Featured/boosted ads	Functional / project requirement	Required
NFR-01	Usability and clear portfolio presentation	Non-functional	Required
NFR-02	Maintainability and future extensibility	Non-functional	Required
NFR-03	Professional documentation and evidence quality	Non-functional	Required

V. System Architecture



Figure: Architecture view showing frontend, application logic, data/AI, and operational services.

Figure 2. High-level architecture or production pipeline for the project.

The architecture separates user-facing presentation, project logic, data or model processing, and operational output. This structure makes the project easier to explain, test and extend inside a professional portfolio environment.

VI. Workflow Design

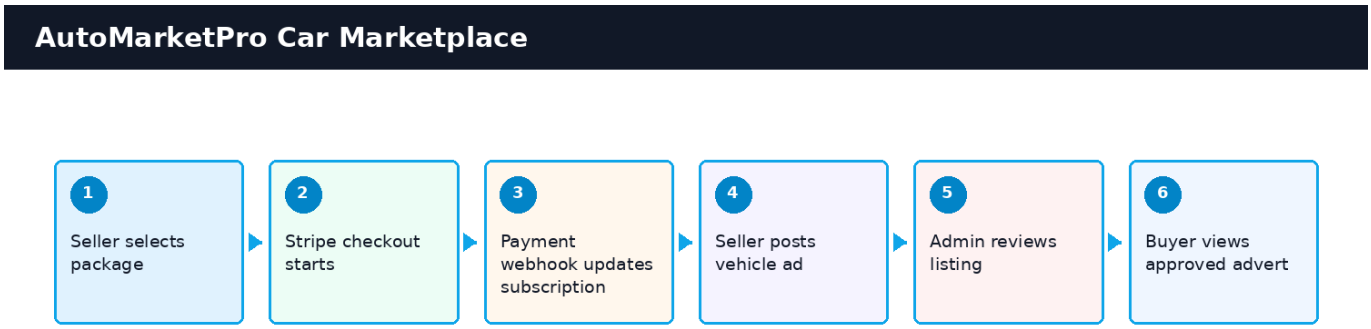


Figure: Generated project workflow / architecture artefact for portfolio documentation.

Figure 3. Project workflow from input or user action to final output.

VII. Data, Components and Implementation View

Component	Layer	Responsibilities	Notes
C-01	Buyer Frontend	Browse listings, Search/filter, View vehicle details, Contact direction	Core component group
C-02	Seller Panel	Register/login, Create ads, Upload images, Manage listings	Core component group
C-03	Payment Layer	Packages, Featured add-on, Stripe checkout, Webhook status	Core component group
C-04	Admin Layer	Approve ads, Moderate users, Manage packages, Review messages	Core component group

Implementation should be documented through screenshots, code snippets, database schema extracts, test outputs or demonstration media when available. For deployed or live systems, screenshots and logs should be attached as appendices to increase evidence strength.

VIII. Testing and Validation Strategy

Test Area	Test Method	Expected Result
Package selection	Select posting plan	Checkout path triggered
Listing form	Enter vehicle data	Validation works
Image upload	Upload allowed file	Image saved/rejected correctly
Admin approval	Change ad status	Frontend visibility updates

The testing strategy focuses on validating the main user or system journey, confirming that core requirements behave as expected, and recording limitations clearly. This supports honest portfolio evidence and avoids overclaiming features that are still prototypes.

IX. Security, Ethics and Professional Considerations

- Validate user input and uploads.
- Use secure payment flows and avoid storing card data directly.
- Follow privacy principles and minimise personal data collection.

X. Results, Outcome and Future Work

A. Outcome

A monetisable web system with strong commercial potential.

B. Future Enhancements

Add advanced search, valuations, dealer profiles, finance calculator and analytics.

Roadmap Stage	Enhancement Direction
Short term	Add missing screenshots, demo links and downloadable supporting files.
Medium term	Connect live/source URLs and replace placeholder evidence with real artefacts.
Long term	Use analytics, user feedback or formal evaluation results to strengthen the project case study.

XI. References

[1] Stripe, "Checkout documentation," https://docs.stripe.com/payments/checkout

Appendix A. Portfolio Download Mapping

Item	Value
Recommended PDF path	docs/automarketpro-car-marketplace-project-documentation.pdf
Recommended Word path	docs/automarketpro-car-marketplace-project-documentation.docx
Admin field: Documentation	docs/automarketpro-car-marketplace-project-documentation.pdf
Admin field: Extra Project File	docs/automarketpro-car-marketplace-project-documentation.docx