Requirement Analysis

Vision and Scope Document

Group-1

Ahmed (Jimmy) Abdalla Aditya Singh Gaharwar Rhea Sera Rodrigues Reuben Joslin Coutinho Reshad Mohsini

Table of Contents

Table of Contents	
Vision and Scope for Cloud-Based Automotive Repair Service	3
Establishing Business Requirements	
Business Requirements	3
Background	3
Business Opportunity	3
Business Objectives	3
Success Metrics	3
Vision Statement	4
Business Risks	4
Business Assumptions and Dependencies	4
Scope and Limitations	4
Major Features	4
Scope of Initial Release	5
Scope of Subsequent Releases	5
Limitations and Exclusions.	5
Business Context.	6
Stakeholder Profiles	6
Project Priorities	6
Deployment Considerations	6
References:	7

Vision and Scope for Cloud-Based Automotive Repair Service

Establishing Business Requirements

Business Requirements

Background

The automotive service industry currently operates with minimal digital solutions, leading to inefficient workflows, miscommunication, and overall customer dissatisfaction. The traditional model relies heavily on in-person interactions, manual booking systems, and paper-based documentation, which are increasingly seen as outdated and inconvenient by a market growing accustomed to the instant gratification offered by digital solutions.

Business Opportunity

With the proliferation of cloud technologies, there exists an untapped potential to revolutionize the automotive repair industry. By harnessing these technologies, the Cloud Auto Repair Platform aims to create a seamless bridge between car owners and service providers. The opportunity lies in transforming the industry's service delivery model to one that is more aligned with the digital expectations of modern consumers, thereby improving the overall customer journey and operational effectiveness.

Business Objectives

The project's goal is to launch a comprehensive cloud-based platform that will transform how vehicle maintenance and repair services are conducted. This platform will offer easy scheduling, digital tracking, and efficient management of repair services, effectively addressing the pain points currently experienced by both car owners and service providers. It will simplify the end-to-end process, from the initial booking to the final payment, ensuring a user-friendly and transparent experience.

Success Metrics

The success of the platform will be evaluated through several key performance indicators:

- **Customer Adoption Rate:** The percentage of the target market that utilizes the platform for their automotive service needs.
- **Reduction in Service Lead Times:** The decrease in time from service booking to completion, evidencing improved operational efficiency.

- **Increase in Service Provider Efficiency:** Enhanced productivity metrics for service centers using the platform.
- **Customer Satisfaction Scores:** Qualitative feedback and quantitative ratings provided by customers post-service.

Vision Statement

The Cloud Auto Repair Platform strives to become the premier digital service for automotive repair and maintenance. It is committed to setting new standards for convenience, efficiency, and transparency, redefining what customers expect from their automotive service experience.

Business Risks

The initiative faces several risks:

- **Adoption Resistance:** Established service providers may be hesitant to change traditional methods and adopt the new platform.
- **Data Security and Privacy:** In an era where data breaches are increasingly common, there is a significant risk related to securing user and transaction data.
- **Dependency on Cloud Infrastructure:** The platform's performance is reliant on the uninterrupted operation of cloud services, making it susceptible to outages and performance variability.

Business Assumptions and Dependencies

Key assumptions and dependencies include:

- Market Trend: There is an anticipated increase in the consumer adoption of digital services which the platform expects to capitalize on.
- Willingness to Adopt Technology: It is presumed that service providers will be open to adopting new technologies, recognizing the potential for improved business operations.
- Cloud Infrastructure Stability: The platform assumes the availability of stable and reliable cloud services as a foundation for its operations.

Scope and Limitations

Major Features

Online Service Booking: The platform will allow customers to book service appointments for their vehicles online at any time, removing the need to call or visit a service center. This feature aims to simplify the scheduling process, making it more accessible and user-friendly.

Real-Time Tracking of Service Progress: Users will be able to track the status of their vehicle's service in real-time through the platform. This feature brings transparency to the service process, giving customers insights into the work being done and expected completion times.

Digital Service History Records: Each vehicle's service history will be recorded and made available to car owners through the platform. This digital record-keeping simplifies ownership management and enhances the resale value by providing a verifiable service history.

Scope of Initial Release

The initial launch will focus on the web-based component of the platform, incorporating the major features outlined above. This phase prioritizes establishing a solid foundation for the service, ensuring that core functionalities such as service booking and progress tracking are operational.

Scope of Subsequent Releases

Integration with Mobile Applications: Following the web-based platform's success, the service will expand to include a dedicated mobile application, offering users the convenience of managing their vehicle services on the go.

Expansion of Service Provider Network: The platform will gradually extend its network of service centers, increasing the options available to users and ensuring a wide geographical service reach.

Advanced Analytics for Predictive Maintenance: Leveraging data analytics, the platform plans to introduce predictive maintenance capabilities. By analyzing vehicle data and service history, the platform will provide users with timely maintenance recommendations to prevent future breakdowns.

Limitations and Exclusions

Mobile App Functionality: The initial release will focus on a web-based platform only. Mobile app functionality is planned for future releases, which will offer enhanced accessibility and convenience for users.

Heavy Commercial Vehicle Services: At launch, the service will cater to standard passenger vehicles and light commercial vehicles only. Services for heavy commercial vehicles will be considered in later development phases, focusing first on mastering the consumer market.

Business Context

Stakeholder Profiles

Car Owners: As the primary end-users of the Cloud Auto Repair Platform, car owners are at the heart of the service design. They seek a solution that saves time and provides clear communication about the services they receive. The platform is tailored to meet these needs by delivering a seamless and transparent customer journey, from booking to service completion.

Service Centers: These operational users will interact with the platform to manage bookings, conduct services, and communicate with car owners. The platform must integrate seamlessly into their existing workflows, minimizing disruption while maximizing the potential for efficiency gains. Service centers will benefit from a more streamlined service process, leading to better resource management and customer service.

Investors: The financial backers are primarily focused on the platform's market success and its potential return on investment. They are concerned with the platform's performance, scalability, and ability to capture a significant market share, thus ensuring profitability and long-term viability.

Regulatory Bodies: These entities will ensure that the Cloud Auto Repair Platform operates within the legal framework set by industry and government standards. Their role is to safeguard the interests of consumers and the public by ensuring that the platform adheres to regulations, especially those about data security, consumer rights, and environmental guidelines.

Project Priorities

Quality and Reliability: Ensuring that the platform is robust and functions consistently without failures is paramount. High-quality standards will foster trust and reliability among users, which is essential for user retention and platform credibility.

User-Friendly Interface and Experience: The platform must provide an intuitive user experience, designed to be easy to navigate for a diverse range of users. A user-friendly interface will contribute significantly to the platform's adoption rate and customer satisfaction.

Adherence to Project Timelines and Budgets: Delivering the project on time and within the allocated budget is critical. Maintaining this discipline ensures that the platform can start serving customers as promised and that investors see a timely return on their investment.

Deployment Considerations

Phased Rollout: The initial deployment will target metropolitan areas where the concentration of potential users is highest. This strategic approach allows for a focused launch, facilitating efficient marketing efforts and enabling quick gathering of user feedback for iterative improvements.

Comprehensive Training for Service Center Staff: Training will be provided to ensure that service center staff can effectively use the platform. Proper training is essential to prevent operational disruptions and ensure that the benefits of the platform are fully realized.

Robust Customer Support Infrastructure: A solid support system will be established to assist users and resolve any issues they encounter promptly. Excellent customer support is crucial for user satisfaction and can differentiate the platform in a competitive market.

References:

- 1. Wiegers, K., & Beatty, J. (2013). Software Requirements. Microsoft Press.
- Elena Revilla, Beatriz Rodríguez, Team vision in product development: How knowledge strategy matters, Technovation, Volume 31, Issues 2–3, 2011, https://doi.org/10.1016/j.technovation.2010.10.007.
- 3. Product vision management: concept and models evaluation João Luís Guilherme Benassi, Daniel Capaldo Amaral, Lucelindo Dias Ferreira Junior http://dx.doi.org/10.4322/pmd.2012.008
- 4. Project Scope and Project Performance: The Effect of Parts Strategy and Supplier Involvement on Product Development Kim B. Clark https://doi.org/10.1287/mnsc.35.10.1247