

Requirement Analysis

Selection for Release Document

Group-1

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Selection For Release

Utilizing prioritization frameworks, such as the Eisenhower Matrix and a value-cost-risk analysis, high-priority functional and non-functional requirements have been determined as foundational for the Cloud Auto Repair Platform's initial release. These requirements are key to delivering critical services, ensuring data security and system reliability from the onset, and are directly aligned with the stakeholder's primary goals of improving efficiency, ensuring customer satisfaction, maintaining transparency, and enhancing the operational efficacy of service providers.

Initial Release Plan (Phase 1)

The initial release is the most resource-intensive and time-consuming phase, serving as the launchpad for the Cloud Auto Repair Platform's Minimum Viable Product (MVP). It's a critical period where high-impact functional and non-functional requirements are prioritized to establish a viable product that aligns with key business objectives and stakeholder expectations. This phase is fundamental in laying the groundwork for a reliable and trustworthy platform that resonates with our early users and sets the tone for the future scalability and enhancement of our services.

The success of this phase is essential, as it sets the standard for user trust and platform stability. In response to stakeholder feedback, we have streamlined the user onboarding experience to remove any barriers and improve ease of use, particularly separating vehicle registration to simplify the process (STK01 feedback).

High-Priority Requirements Based On Stakeholder Feedback

- **Assign Pickup Request to Driver:** Essential for streamlining service delivery and enhancing user experience, as efficiency in service logistics is key (STK01 feedback).
- **User Registration and Login:** Users must be able to register and log in to the service (STK01 feedback).
- **List of Preferred Service Centers:** Enables personalization of the user experience by suggesting service centers that align with their preferences and vehicle specifics.
- **Service Centers Receive Requests:** Ensures that service providers can efficiently manage incoming service requests, a pivotal factor for operational effectiveness (STK05 feedback).
- **Generate/Send Quotes:** Creates a transparent pricing structure, crucial for establishing trust with customers (STK05 feedback).
- **Review and Accept/Reject Services:** Allows users to have agency over their service choices, thereby increasing customer satisfaction.
- **Partial Acceptance of Services:** Offers users the flexibility to select services that meet their needs, reflecting a customer-centric approach.

- **Secure Payment Gateway Integration:** Incorporates strong encryption protocols for financial transactions, addressing data security (STK03 feedback).
- **Billing and No-Charge Policy:** Establishes clear and fair billing practices, addressing transparency concerns (STK05 feedback).
- **Data Protection and Privacy Compliance:** Implements thorough compliance measures to protect user data, addressing security and privacy (STK06 feedback).
- **Secure Data Storage and Transmission:** Focuses on the integrity and confidentiality of user data, ensuring robust data protection (STK03 feedback).
- **Reliability** (Non-Functional): Establishes a stable and consistent platform operation, crucial for building customer trust and satisfaction (STK04 feedback).
- **Security** (Non-Functional): Enhances security features to safeguard against breaches and maintain user trust (STK03 feedback).

Objectives

- Launch a viable and reliable product addressing immediate user and stakeholder needs.
- Gather user feedback to inform continuous improvement, setting a strong precedent for future phases

Second Release Plan (Phase 2)

Phase 2 of the Cloud Auto Repair Platform's deployment is strategically planned to enhance platform capabilities, addressing the mid-priority requirements outlined by user and stakeholder feedback. Building on the solid foundation set by the initial release, this phase focuses on deepening the functionality and enriching the user experience, further aligning the service with our project priorities of quality, reliability, user-friendly experience, and adherence to timelines and budgets. It also incorporates crucial insights from the stakeholder feedback, such as database optimizations and the introduction of scalable cloud-based solutions, emphasizing our commitment to quality and efficient service delivery.

Mid-Priority Requirements Based on Stakeholder Feedback:

- **Car Registration** (STK01 feedback): Streamlining the car registration process to provide a seamless user experience, increasing adoption rates, and ensuring platform convenience.
- **Specify Problem, Vehicle Details** (STK01 feedback): Improving the precision of service requests to enhance the platform's operational efficiency and user experience.
- **Integration with GPS for Tracking** (STK04 feedback): Upgrading our real-time vehicle tracking for improved transparency and user assurance.

- **Documentation of Repair Process (STK05 feedback):** Simplifying and digitizing the repair documentation workflow to heighten operational speed and client satisfaction.
- **Detailed History of Services:** Introducing a comprehensive service history record for better user engagement and service quality tracking.
- **Towing Services for Non-Drivable Vehicles:** To extend service offerings to include non-drivable vehicles, addressing a broader spectrum of user needs.
- **Usability:** To continue improving the ease of use and accessibility of the platform, making it more intuitive for all user segments.
- **Performance:** To enhance the platform's efficiency, ensuring fast and reliable service delivery.
- **Scalability:** To ensure the platform can grow and adapt with the increasing number of users and service requests.

Objectives

- **Strengthen Platform Robustness:** Ensuring the platform can efficiently handle a growing user base and the complexities of a broader range of services.
- **Incorporate Feedback for Improvement:** Leveraging user and stakeholder feedback to refine functionalities and improve platform performance.
- **Prepare for Future Scalability:** Laying the groundwork for future features and enhancements, ensuring that the platform can evolve with market trends and user needs.

Third Release Plan (Phase 3)

The third phase of the Cloud Auto Repair Platform's development will focus on integrating the remaining low-priority features. This phase, while less resource-intensive, aims to refine the user experience and ensure that all aspects of the service are as comprehensive and user-focused as possible. Building on feedback from the first two phases, Phase 3 will fine-tune the platform's offerings and solidify its position in the market.

Low-Priority Requirements for Further Enhancement:

- **Request Repair/Maintenance Services:** Enhance the request repair/maintenance services feature to provide additional flexibility and more options. This expansion is designed to allow a more personalized user experience. Users will gain access to a broader selection of service options and will be able to detail their vehicle maintenance requirements more precisely, showcasing the platform's responsiveness to user feedback and adaptability to evolving market trends.

Objectives

- **Enhance Service Request Capabilities:** Build upon the existing framework to offer a more tailored and flexible service request process.
- **Elevate User Experience:** Through the introduction of more refined service options, ensure that user interactions are seamless and highly customizable.
- **Solidify Market Position:** By delivering a polished and user-centric platform, affirm our commitment to quality and user satisfaction, reinforcing our standing as a market leader.

Estimated Time For The Release Of Each Phase

High Priority Requirements	Analysis Of Release	Estimate Time For Release
User Registration and Login	The release of User Registration and Login is set for early May 2024 and marks a critical starting point for our platform. Chosen for its pivotal role in establishing first impressions and long-term engagement, this feature has been unanimously prioritized by all stakeholders.	May 1st, 2024 - May 15th, 2024
Assign Pickup Request to Driver	Assigning Pickup Requests to Driver is crucial for operational efficiency, it was unanimously agreed upon by stakeholders for its impact on service logistics and user experience.	May 16th, 2024 - June 6th, 2024
List of Preferred Service Centers	Listing Preferred Service Centers allows for personalized experiences, essential for user satisfaction and retention. All stakeholders agreed that this requirement would be released in this time frame.	June 7th, 2024 - June 28th, 2024
Service Centers Receive Requests	A key feature for ensuring service providers can manage incoming requests effectively, vital for operational efficacy as agreed by stakeholders, thus this time frame was unanimously agreed upon.	June 29th, 2024 - July 20th, 2024
Generate/Send Quotes	The release of Generate/Send Quotes was unanimously agreed upon for late July 2024 to ensure transparency in pricing and to build user trust early in the platform's lifecycle.	July 21th, 2024 - August 11th, 2024

Review and Accept/Reject Services	All stakeholders concurred on the release of Review and Accept/Reject Services for mid August 2024 to empower users with choice and control over the services provided.	August 12th, 2024 - September 2th, 2024
Partial Acceptance of Services	Stakeholders unanimously agreed to release Partial Acceptance of Services in September 2024 to offer users more tailored service options and flexibility.	September 3th, 2024 - September 24th, 2024
Secure Payment Gateway Integration	Due to the critical nature of transaction security, stakeholders unanimously agreed on an early release of Secure Payment Gateway Integration in late September 2024.	September 25th, 2024 - October 16th, 2024
Billing and No-Charge Policy	The release of Billing and No-Charge Policy was unanimously agreed for October 2024 by all stakeholders to establish clear and fair billing practices from the start.	October 17th, 2024 - November 7th, 2024
Data Protection and Privacy Compliance	The unanimous agreement by stakeholders for the November 2024 release of Data Protection and Privacy Compliance underscores its significance in safeguarding user data.	November 8th, 2024 - November 29th, 2024
Secure Data Storage and Transmission	Stakeholders unanimously agreed to prioritize Secure Data Storage and Transmission for release in late November 2024 due to its paramount role in data integrity and protection.	November 30th, 2024 - December 21th, 2024
Reliability (Non-Functional)	Stakeholders unanimously agreed to the release of Reliability in December 2024, acknowledging its criticality for user trust and a consistent platform experience.	December 22th, 2024 - January 12th, 2025
Security (Non-Functional)	Security, being essential for maintaining user trust in the platform, was unanimously agreed upon by stakeholders for release in January 2025.	January 13th, 2025 - February 03th, 2025
Phase 1	Concluding the analysis of Phase 1, the release strategy has been meticulously shaped in alignment with stakeholder agreement, aiming to disclose a substantial Minimum Viable Product within a 9-month window—a timeframe extended by a three month leeway. The extension beyond the typical 9-month period is a professional best practice, allowing for a thorough resolution of any complexities or challenges inherent in delivering a feature-intensive and high-stakes MVP. By frontloading essential features and user security measures, the strategy underscores a deep commitment to fostering trust and operational efficiency from the outset.	Total: 9 months + 3 months leeway.
Mid Priority Requirements	Analysis Of Release	Estimate Time For Release
Car Registration	Unanimous agreement among stakeholders was reached to prioritize the Car Registration enhancement for early May, emphasizing the importance of a quick and efficient onboarding process for users	May 1, 2025 - May 15, 2025
Specify Problem, Vehicle Details	Stakeholders concurred to promptly follow up with the Specify Problem, Vehicle Details feature in mid-May, acknowledging its role in improving service request accuracy and user satisfaction	May 16, 2025 - May 31, 2025
Integration with GPS for Tracking	All stakeholders concurred on the release of GPS capabilities to elevate the user's experience by offering real-time tracking, underscoring the platform's ethos of transparency and trust.	June 1, 2025 - June 15, 2025
Documentation of Repair Process	Stakeholders unanimously agreed to the release of the Documentation of Repair Process feature for June 2025 to improve service transparency and operational efficiency.	June 16, 2025 - June 30, 2025
Detailed History of Services	The Detailed History of Services feature was unanimously	July 1, 2025 - July 15,

	slated for July 2025, aligning with stakeholder recognition of its value for user engagement and service quality assurance.	2025
Towing Services for Non-Drivable Vehicles	Stakeholders unanimously agreed that Towing Services for Non-Drivable Vehicles should be targeted for early July 2025 to broaden the platform's service scope.	July 16, 2025 - July 30th, 2025
Usability	The stakeholders unanimously agreed to allocate more time for Usability, spanning nearly the entire month of August, reflecting the commitment to providing a superior user experience and to ensure all the past requirements integrated as intended.	August 1st, 2025 - August 29th 2025
Performance	Performance optimization was selected for the first half of September, with stakeholders acknowledging the necessity of fast and responsive platform operations.	September 1st, 2025 - September 14th, 2025
Scalability	To conclude Phase 2, Scalability enhancements were unanimously scheduled for mid-September, underscoring the strategic importance of preparing the platform for expected growth and user demand influx.	September 15, 2025 - September 29th, 2025
Phase 2	Concluding the Phase 2 analysis, the release strategy has been developed to align with stakeholder consensus, targeting the deployment of a refined version of the platform within a calculated 6-month span—thoughtfully including an extra month for contingencies. This period, defined to integrate mid-priority features, builds upon the initial MVP's foundations, enhancing it with additional functionalities that prioritize the user experience. The collective agreement among stakeholders for each requirement signifies a cooperative vision for the platform's continual enhancement, affirming a relentless pursuit of excellence in service and operational capabilities.	Total: 5 months + 1 month leeway.
Low Priority Requirements	Analysis Of Release	Estimate Time For Release
Request Repair/Maintenance Services	Stakeholders have unanimously recognized the importance of fine-tuning the Request Repair/Maintenance Services feature. In this final stretch, a 2-month timeframe with an additional 1-month leeway has been meticulously designated for its enhancement, reinforcing the platform's ability to provide tailored and user-oriented service options.	November 1st, 2024 - December 29th, 2024
Phase 3	Concluding the Phase 3 analysis, the release strategy has been designed to align with stakeholder consensus, aiming to enhance the platform with a focus on low-priority yet critical features within a dedicated 2-month period with an additional month for leeway. This phase, seamlessly following Phase 2, underscores a commitment to refining the platform comprehensively. The strategic emphasis on enhancing the Request Repair/Maintenance Services function demonstrates a commitment to operational excellence and a customer-centric approach to platform development. Phase 3 is more than just final adjustments; it represents a focused effort to fine-tune the platform to fully accommodate and reflect subtle user preferences. By completing this phase, the platform not only showcases its	Total: 2 months +1 month leeway.

	resilience and adaptability but also cements its dedication to delivering a nuanced service that meets comprehensive user needs, thereby ensuring sustained market presence and fostering customer loyalty.	
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References:

1. Wiegers, K., & Beatty, J. (2013). Software Requirements. Microsoft Press.
2. ProductPlan. (n.d.). Minimum viable product. Retrieved April 4, 2024, <https://www.productplan.com/glossary/minimum-viable-product/#:~:text=A%20minimum%20viable%20product%2C%20or,iterate%20and%20improve%20the%20product>