NXT TECHNOLOGIES

WrenchIT

Project Vision Document

Version 1.5

October 2nd 2025

Revision History

Revision	Date	Author	Reviewed By	Summary of Changes
1.3	September 15th	Developer Team	Hamza Hafez	Review of scope and users, refinement of application core features.
1.5	October 2nd	Developer Team	Henrique Custodio	Removal of Mechanic Verification. Grammar cleanup, formatting and general review.

Document Approval List

Version	Approved By	Signature	Date

Document Distribution List

Version	Name of the Receiver/Group	Date

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1 Introduction

This is a document which defines the Project Vision for WrenchIT, a digital platform which looks to connect vehicle owners with desired offerings for local vehicle repair stores. The document will provide an outline on the business opportunity, intended system features, characterizations of stakeholders and potential users, and assumptions as well as potential limitations that may be encountered.

1.1 Purpose

The purpose is to provide a clear vision of WrenchIT objectives, stakeholders and system features for alignment and ease of cooperation between the project team and stakeholders. This document looks to define problems which will be addressed and outline how we will best meet the expectations stakeholders will have with our services.

1.2 Scope

The scope of the Project WrenchIt is to design and deliver a digital platform that connects vehicle owners with local mechanics and autobody shops. The system will allow users to search for shops, compare services and prices, read and submit reviews, and access trusted feedback from verified expert mechanics. Shop owners can manage their service information and pricing, while administrators maintain the platform.

1.2.1 In Scope

- Searchable Directory
- Ratings and Reviews
- Shop Listing
- Mobile-Friendly UI
- Price Comparison
- Service Matching
- Documentation
- Prototype/Demo
- Database

1.2.2 Out of Scope

- Reward System
- In-App Payment
- Customer Support
- Integration with Insurance Company
- Emergency Roadside Assistance
- Mechanic Verification System

1.3 Definitions, Acronyms, and Abbreviations

Term	Explanation
Auto-service provider	Mechanic, auto-body shop, vehicle repair providers.
API	Application Programming Interface (pulls data from different software programs)

1.4 References

<This subsection provides a complete list of all documents referenced elsewhere in the Project Vision. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document>

Reference File Name	Version	Description

Name	Link
OpenBay	https://app.openbay.com/

2 Positioning

2.1 Business Opportunity

The mechanic and vehicle repair industry has not caught up to other industries in terms of digital integration. While there are many platforms for services such as transportation, retail, health care, etc; There is no such equivalent in the automotive industry. This leaves consumers more uninformed in terms of where to find desired services. Thus our project looks to address this gap and give both consumers and owners more insight into the auto-repair industry.

2.2 Problem Statement

There is limited transparency with the vehicle repair industry. This affects all vehicle owners, mechanics and auto repair shop owners by having inconsistent pricing, unconfirmed service quality, and overall a lack of standardization for consumers. A successful solution would improve consumer insight on auto repair services and reward shops that offer the best services.

The Problem of	Uninformed customers, varying prices, and inconsistent service quality
affects	Vehicle owners, auto shops, and mechanics
the impact of which is	Lack of trust, wasted money, and limited transparency
a successful solution would be	Trustworthy app for reviews, comparison, and verified mechanics

Table 1 Problem Statement

2.3 Product Position Statement

The intent of the application is to make the process of vehicle repair or maintenance as easy and transparent as possible for all parties involved. Mechanics and auto repair shops will have an easier time finding and connecting with their local demographic, and vehicle owners will have an easier time finding desired shops in their area.

For	Vehicle owners, auto shop owners, mechanics.
Who	Require greater insight and easier accessibility into local vehicle repair service offerings, transparent prices and trusted shops.
The “WrenchIT” app	is a local mechanic app to find transparent prices and trusted shops locally
That	To find local mechanic shops, and for different types of mechanical services, compare shops, see verified reviews and get expert data
Unlike	OpenBay, google search or random online reviews
Our product	Not limited to the USA and is more catered towards local shops.

Table 2 Product Position Statement

2.4 SWOT Analysis

Strengths	**Weaknesses**
Niche Focused	Geographical Scaling Issues
Student-Driven	Limited Data Sources
Transparency	New Application
Opportunities	**Threats**
Untapped Local Shop Market	Competitors like Yelp/GoogleMaps
Can Partner With Local Shops	Uncooperative/Competitive shops
Expand Services	Similar Apps in Development

3 Stakeholder and User Descriptions

Stakeholders in the project are the local mechanics who are having trouble with finding and connecting with their local consumer, the consumers who are tired of dishonest shops taking advantage of their lack of knowledge, and NXT Tech who are the developers for the app that saw an opportunity in the market for the app.

3.1 Stakeholder Summary

Stakeholder Name	Represents	Role
Mechanics	Providers of service	To verify work quality and service offerings
Store owners	The owners of the mechanic shops	Provide Shop/Business Information
Developers	WrenchIt Team	Design and Develop the Platform
Clients	Car Owners	Practical usefulness and adoption of application.

Table 3 Stakeholder Summary

3.2 User Summary

User Name	Description	Responsibilities	Stakeholder
Clients	Users require accessibility to local services. Sources of potential data via uploading previous services history.	Verify system operating as intended. Provide feedback on application success.	Developers
Store Owners	The businesses providing competitive services to clients.	Provide business related info such as types of services provided, prices, enhance services based on client reviews.	
Mechanic	Vehicle repair professionals who will provide feedback on services via the application. Possible source of further data in terms of pricing.	Review repair invoices, provide professional feedback, verify service quality, validate or dispute shop claims.	

Table 4 User Summary

4 Stakeholder Requirements

< Categorize and list the requirements from the perspective of the business stakeholder and potential system users >

ID	Requirement	Stakeholder
1	Accurately represent store prices and services offered.	Store Owners
2	Being able to find local mechanics that fit their needs.	Clients
3	Modern Web application that can be updated, and interact with Google API's as needed.	Developers

Table 5 Stakeholder Requirements

5 System Features

ID	Feature	Stakeholder Requirement ID
1	Constant webscrapping of the website to provide accurate and updated reviews.	1
2	Visual maps and location services, using google maps API.	2
3	Use of modern API's (Google Maps, Google Reviews, etc.) and cloud deployment practices.	3

Table 6 System Features

6 Assumptions

1. Users will have access to the internet
2. Users will be comfortable to share their location for the app
3. Shops will provide accurate data
4. API's will be available and reliable

7 Constraints

1. Limited & Inconsistent Data - It may be that local mechanics do not collect intensive information on services given. It may be that prices are not even standardized in the same store or that the method of price calculation is not consistent.

2. Limited Cooperation - It may be that mechanics/owners are unwilling to share their information given competitiveness and lack of trust.

3. Map software (Google Maps API) - Our solution may be heavily based on the accuracy, availability and cooperation of map applications/API's such as Google Maps API.