

Project Status Report I

Date of Report Issue/Prepared: 03-02-2026

Report Prepared By Team Members: Fredrich Tan, Henrique Custodio, Hossein Khanzadeh, Tyson Ward-Dicks, Hamzah Hafez.

Employer/Organization (if applicable) :

Project Name:	WrenchIT	
Project Team:	NXT Technologies	
Period Reporting:	Start Date: Jan 12th, 2025	End Date: Feb 14th, 2025
Overall Project Health	Green (Good)	

Summary

Project Status Summary
<p>Backend foundation is in place with multi-module architecture, core data models, and key store/search endpoints implemented. Search supports pagination, sorting, filtering, and geo-radius queries. Google Places integration is scaffolded and optional. Reviews and saved shops are functional. Keycloak full setup is deferred.</p> <p>Simple front end implementation of main features complete for initial presentation; allows for searching of stores, saving of store location, reviews.</p>

Accomplishments As Planned	Planned but not Accomplished
<ul style="list-style-type: none"> • <u>Delivered store search and detail endpoints</u> • <u>Implemented search enhancements: pagination, sorting, filtering, and radius search</u> • <u>Completed reviews and saved shops workflows</u> • <u>Organized project structure by service responsibilities</u> 	<ul style="list-style-type: none"> • <u>Keycloak realm and client setup with end-to-end authentication validation</u> • <u>Frontend integration and UI testing</u> • <u>Additional domains (profiles, owners, mechanics, service catalog, receipts)</u>

Upcoming Objectives for Feb 01, 2025 to Mar 7, 2025

Planned Activities/Tasks for Next Period			
Activity/Task	Assigned To <name/s>	Duration <days>	Date
Full Keycloak setup and authentication testing	Henrique	3	Jan 30th - Feb 1st
Google maps API basic map display	Tyson & Hamzah	2	Feb 5th - Feb 6th
Signup and login UI development	Hossein	3	Feb 8th - Feb 10th
Frontend harness (search/details)	Hossein	4	Feb 14th - Feb 17th
Define profiles/service catalog modules	Henrique	2	Feb 14th - Feb 15th
User database schema design and implementation	Frederich	2	Jan 27th - Jan 28th
Search Feature for shops implemented	Tyson & Hamzah	2	Feb 15th - Feb 16th

Milestones for Next Period		
Milestone (Objective)	Assigned To	Delivery Date
Working demo of core application features	Entire Group	Feb 25th
Login and signup process with email onboarding	Henrique	Feb 1st
Basic mechanic shop search functionality	Tyson & Hamzah	Feb 16th
Google Maps display with shop markers	Tyson & Hamzah	Feb 12th
Shop detail page with basic information	Henrique	Feb 18th
Basic review submission feature	Tyson & Henrique	Feb 20th
User Database Implementation	Frederich	Jan 28th
Login and Signup UI design	Hossein	Feb 10th

Managing Issues and Risk (for current reporting period and next period)

- Note: We want to make sure that all of the problems are resolved before Feb 25th

Issues/Problems	Resolution Strategy	Due Date
How to do onboarding of users.	Simply have them not receive any special onboarding, or use an email service. Decision needed.	Feb 25
City/state fields aren't populated yet by Google details (not included in the current fields list), so those filters may not work well unless manually populated.	Create a feature that populates correct fields in the model, and check for correctness.	Feb 25
Frontend blocked by backend dto changes	Start to implement the front end without reliance on the data layer. Doing layout and styling first.	Feb 25
Search Result inconsistent; Radius search + pagination produces duplicates/missing items	Work towards using a more efficient searching algorithm that better interacts with geolocation features.	Feb 25
Keycloak manageability of users is difficult due to inexperience.	Continuing to research and work with the tool, looking to follow enterprise level recommendations found online.	Feb 25

Upcoming Risks	Risk Ranking (Hi, Med, Low)	Risk Impact (Hi, Med, Low)	Mitigation Strategy
Demo not working properly.	Med	Low	Seed Demo data create dry run checklist run end to end test before presentation
Too many accidental API calls.	Low	Low	Add rate limiting + caching protect API keys add guardrails in frontend
API not functioning properly.	Hi	Med	Add health checks + smoke test keep stable branch/tag for quick rollback
Receipt upload feature introduces vulnerabilities.	Low	Hi	Validate file type/size scan uploads store securely
Team coordination And communication delays	Med	Low	Weekly meeting to discuss or updated notes to keep members informed with new information at all times

NOTE: Attach additional sheets if insufficient space available

Submission Guidelines:

Please submit as "W25_T9_ProjectReport1".
This is a group submission i.e. one per group.

Due Dates:

Sunday, Feb 02, 2025 (11:59 p.m.)