Trainee Batch - 2024

GREAVES ENGINEERING

Presented by: Mansi Yeole

Function: Digital Engineering

Trainer: Imran Khan

Mentor: Imran Khan



	Index
1.	Project Synopsis: Provide a brief overview of the project & its scope
2.	Objective of Study: List tangible outcomes & deliverables
3.	Project Methodology/ Approach
4.	tools and techniques
5.	Project Images
6.	Project updates/Timeline
7.	Findings & Suggestions





Title of Project : Assembly Checksheet System

Brief Overview :

The project is focused on developing a paperless system for managing engine assembly processes. This system replaces traditional paper methods with an electronic platform, allowing data retrieval, submission, and various checksheet operations for multiple stations, including barcode scanning and dynamic dropdown values.

Scope of the Project

Digital Checklists for ATP:

- Implement a paperless checklist system for various stages of engine application, such as process audits.
- Automate the generation and management of checklists, with the ability to customize and filter based on specific requirements.

Data Integrity and Validation:

- Ensure that all data entered into the system is validated and stored securely, with mechanisms for process auditing.
- Include authentication features to verify the identity of users and control access to sensitive information.

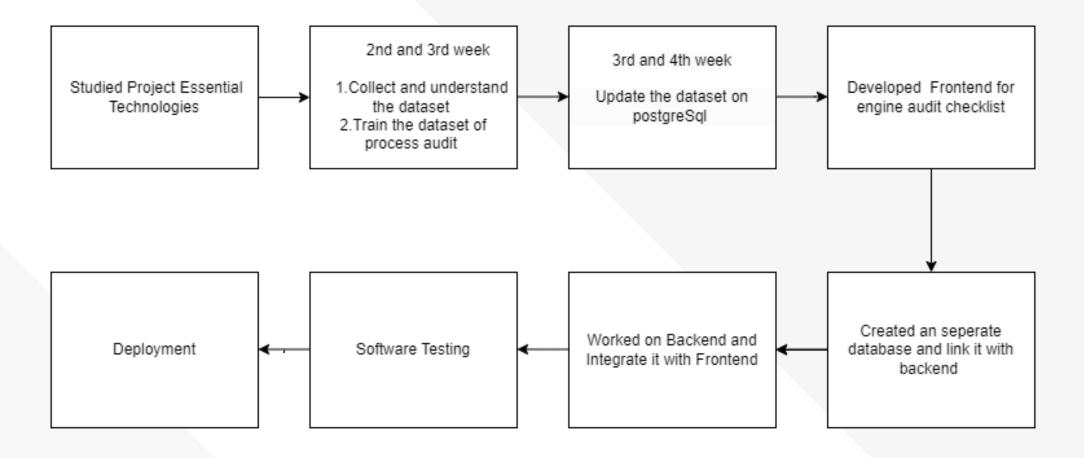


Objective of Study: List tangible outcomes & deliverables

- allowing for smooth data flow and reducing redundancy in record-keeping.
- role-based access control system to ensure that only authorized users can access or modify sensitive engine application data.
- A centralized, searchable database containing all engine application records, accessible in real-time
- paper-based to a digital system, improving efficiency, accuracy, and compliance in engine application management.

Project Methodology/ Approach: Describe the approach and methodology including tools and techniques





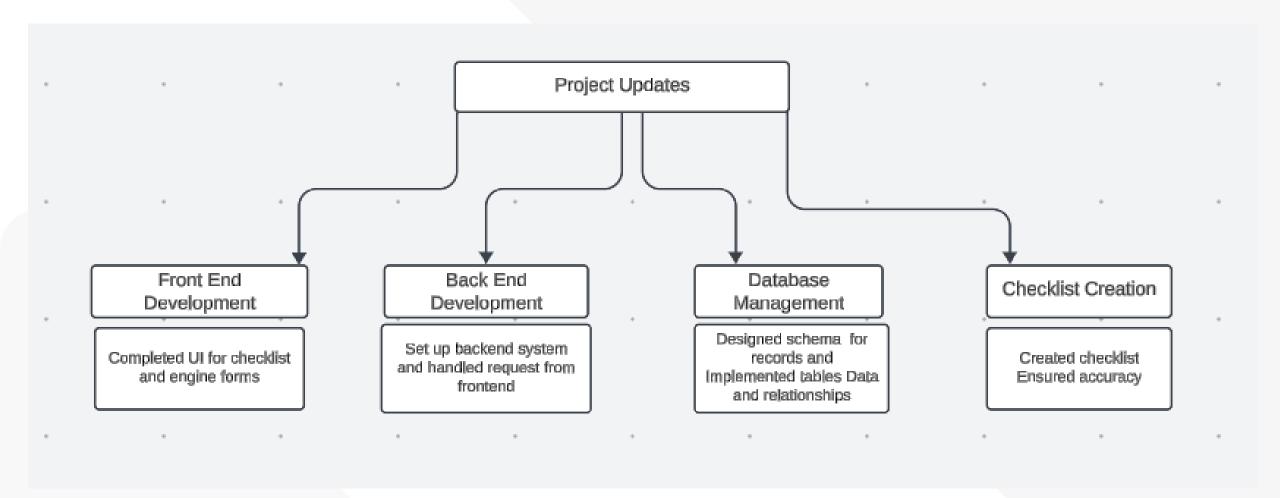
Project Methodology/ Approach: Describe the approach and methodology including tools and techniques



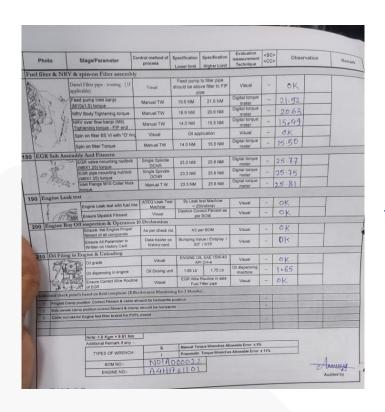
Tools and Techniques:

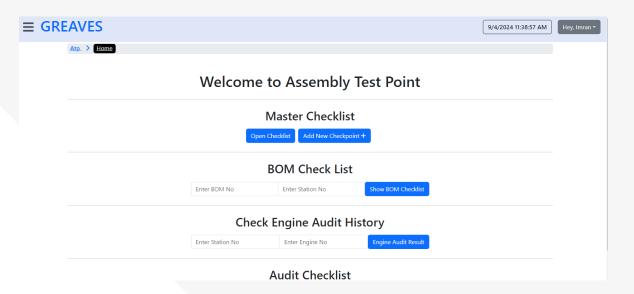
- ReactJS: Frontend development for building user interfaces
- Django: Backend development framework.
- Python: General-purpose programming language used for backend logic.
- PostgreSQL: Relational database management system
- PyCharm: Integrated Development Environment (IDE) for Python.
- VS Code: Lightweight code editor for various languages
- Excel: Data analysis and visualization tool

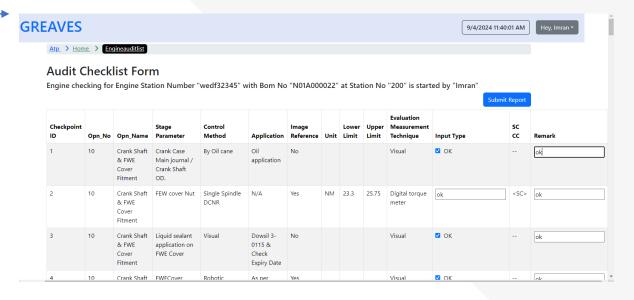










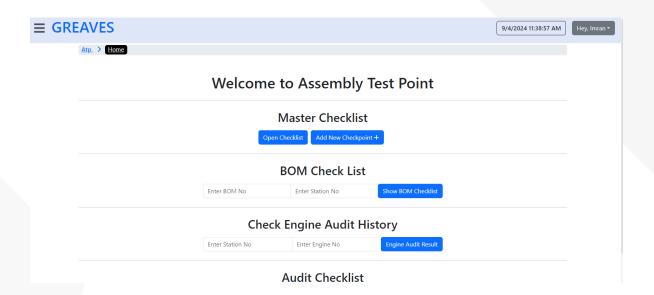




1. Authorized User Login



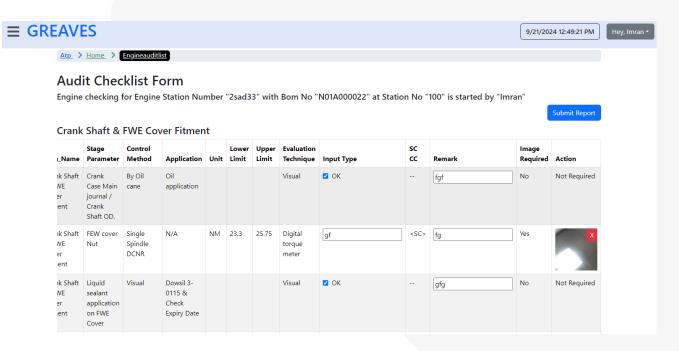
2.Home Page

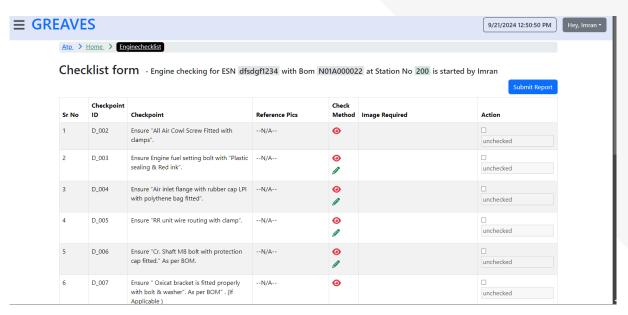


GREAVES ENGINEERING

3. Audit Checklist Form for Station no 100

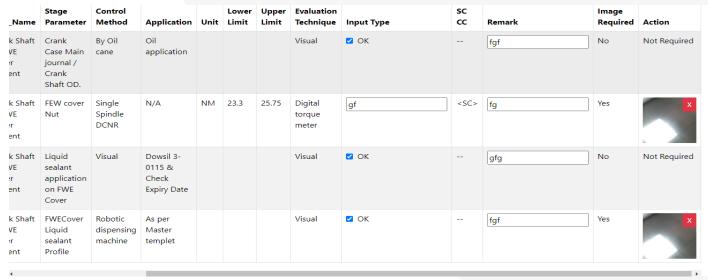
4.Audit Checklist Form for Station no 200



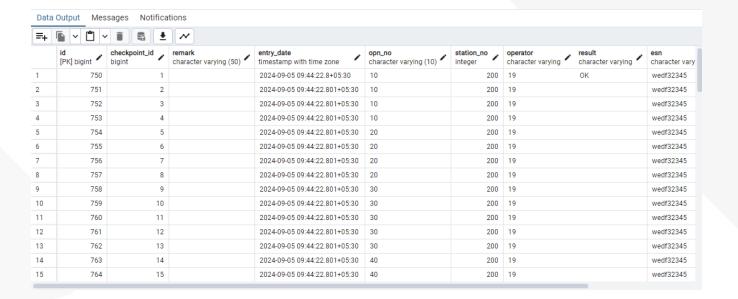




5.Image Capturing if required

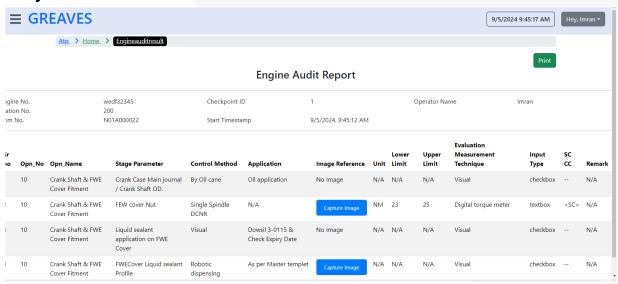


6. After Successfully submission of data, will be stored in database

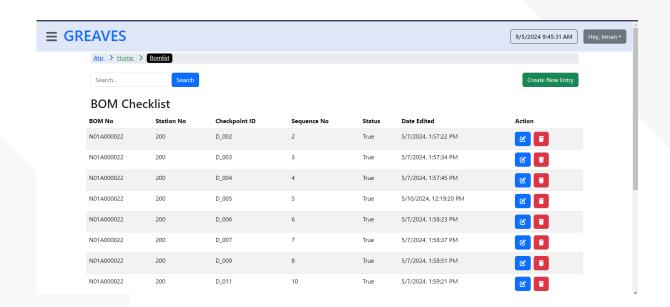




7. Check Engine Audit History

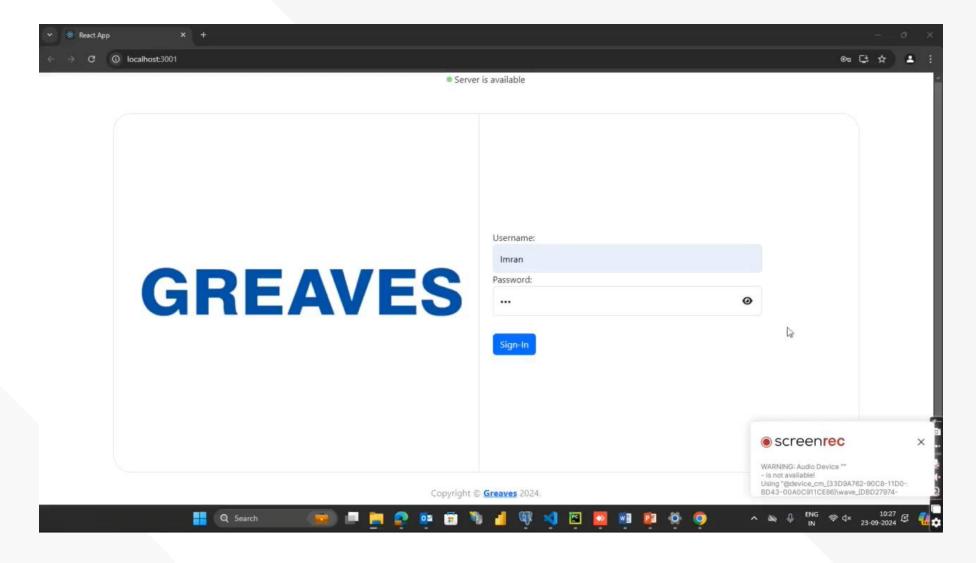


8. BOM Check List





video recording:



Findings & Suggestions:



- 1.Implement interactive dashboards using ReactJS libraries like Chart.js or D3.js for visualizing engine data, trends, and statistics.
- 2. Integrate WebSockets or other real-time technologies to provide live updates on engine data, ensuring that users see the most current information without needing to refresh.
- 3. A personal hardware workstation



Thanks