

TAABI FUEL MANAGEMENT SOLUTION- CASE STUDY

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1) PRODUCT REQUIREMENTS DOCUMENTS

| | |
|---------------|---------------------------------|
| PRODUCT TITLE | Taabi Fuel Management Platform |
| AUTHOR | Product Manager Name |
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| DATE | MM/DD/YY |

OVERVIEW

Purpose

Taabi Fuel Management Dashboard is a comprehensive solution designed to provide real-time fuel tracking, analysis, and optimization for large transportation fleets.

Business Goals

Deliver fuel savings of 5-10% for customers

Provide actionable insights into fleet fuel consumption

Enhance operational efficiency for transportation companies

PRODUCT OBJECTIVES

| | |
|-------------|--|
| OBJECTIVE 1 | Provide real-time tracking of fuel levels for all vehicles. |
| OBJECTIVE 2 | Identify and classify events causing sudden changes in fuel levels (e.g., refueling, theft). |
| OBJECTIVE 3 | Enable comparative analysis of fuel efficiency (KMPL) across vehicles and time periods. |

| | |
|--------------------|--|
| OBJECTIVE 4 | Facilitate access to detailed data for specific fuel events. |
| OBJECTIVE 5 | Showcase Return on Investment (RoI) from Taabi's fuel solutions. |

STAKEHOLDERS IDENTIFICATION

| NAME | ROLE | RESPONSIBILITY | INTERESTS IN THE PRODUCT |
|-----------------------|-----------------------|---|---|
| Fleet Managers | Primary Users | Monitor fuel levels, detect anomalies, track RoI. | Enhance operational efficiency, reduce costs. |
| Full-Stack Developers | Technical Team | Develop and implement dashboard features. | Deliver a scalable, user-friendly product. |
| QA Lead | Quality Assurance | Ensure the feature meets functional specifications. | Minimize bugs, ensure reliability. |
| IoT Hardware Vendors | External Stakeholders | Provide reliable fuel sensor hardware and support. | Ensure accurate data delivery. |

FUNCTIONAL REQUIREMENTS

| | |
|---------------------------------------|---|
| Feature 1: | Display current fuel levels for all vehicles in the fleet. |
| Real-Time Fuel Tracking | Support historical time period selection (daily, weekly, monthly, custom range) |
| Feature 2: | Detect sudden changes in fuel levels (ex- theft, refueling). |
| Fuel Event Analysis | Classify and segregate events by type (ex- Refueling Events). |
| Feature 3: | Mileage comparison KMPL data across vehicles by make and model. |
| Vehicle Performance Comparison | Best and worst-performing vehicles, average fuel consumption by vehicle type. |

| | |
|--|---|
| Feature 4: Event Information Access | Enable users to drill down into event details, including time, location and type. |
| Feature 5: RoI Dashboard | Calculate and display RoI for Taabi's fuel solutions, Including: (Total fuel savings over time, Savings per vehicle and fleet-wide) |
| Feature 6: Alerts and Notifications | Provide automated alerts for anomalies, such as unexpected fuel depletion or irregular refueling. Support SMS and email notifications. |

NON-FUNCTIONAL REQUIREMENTS

| | |
|--------------------|--|
| Scalability | Support up to 500 vehicles per fleet. |
| Performance | Real-time updates with <5-second latency |
| Usability | Ensure a simple, intuitive interface suitable for non-technical fleet managers. |
| Security | AES-256 encryption for sensitive data. Compliance with GDPR for data privacy. |

IOT-INTEGRATION REQUIREMENTS

| |
|--|
| Fuel sensors must communicate data via MQTT or HTTP protocols |
| The system must handle real-time data streams with 99% accuracy |
| Sensors should transmit data every 30 seconds to ensure timely updates |

GEO-DATA ANALYSIS

| |
|---|
| Integrate mapping APIs to visualize fuel events geographically. |
| Use GIS tools for location-based fuel efficiency analysis. |

PREDICTIVE MAINTENANCE

| |
|--|
| Utilize fuel data to provide insights into maintenance schedules |
|--|

| |
|---|
| Flag potential anomalies that may indicate hardware or vehicle issues |
|---|

ASSUMPTIONS AND CONSTRAINTS

ASSUMPTIONS

Fuel sensors are pre-installed and functional.

The IoT infrastructure is stable and reliable for data transmission.

CONSTRAINTS

Development budget: Limited to \$250,000, must be completed within 4 weeks.

Limited team capacity: 3 developers and 1 QA lead.

DEPENDENCIES

| | |
|--------------|---|
| DEPENDENCY 1 | Integration with IoT fuel sensors and telematics devices. |
| DEPENDENCY 2 | Mapping API for event visualization (e.g., Google Maps or OpenStreetMap). |
| DEPENDENCY 3 | Cloud storage for historical data analysis. |

ACCEPTANCE CRITERIA

| | |
|----------------------|---|
| FUEL LEVEL TRACKING | Real-time fuel tracking updates within 5 seconds of changes. |
| EVENT CLASSIFICATION | Event classification achieves 95% accuracy. |
| COMPARISON | Comparative analysis reflects KMPL trends across vehicles and time periods. |
| ROI | RoI calculations provide actionable insights for users. |
| EVENT ALERTS | Alerts and notifications are delivered promptly for critical events. |

RISK ANALYSIS

| RISK | MITIGATION |
|---|--|
| Delays due to sensor data inconsistencies. | Build robust error-checking and data validation mechanisms. |
| Time constraints for feature delivery. | Focus on critical features first, with secondary features planned for future releases. |
| Network downtime impacting real-time updates. | Implement edge computing to cache and process data locally in case of network issues. |

PRIORITY AND EFFORT

| REQUIREMENT | PRIORITY LEVEL | EFFORT REQUIRED |
|------------------------------------|----------------|------------------------------|
| Real-time Fuel Tracking | High | Estimated effort - 2 Weeks |
| Event detection and classification | High | Estimated effort - 1.5 Weeks |
| Event Alerts | High | Estimated effort - 0.5 Week |
| Comparative Analysis | Medium | Estimated effort - 1 Week |

| | | |
|---------------------|--------|----------------------------|
| ROI Dashboard | Medium | Estimated effort - 1 Week |
| Geospatial Tracking | Low | Estimated effort -0.5 Week |

VERSION HISTORY AND CHANGE LOG

| VERSION | EDITS COMPLET ED BY | DATE | DESCRIPTION |
|---------|---------------------------|----------|---------------------------|
| 1.00 | Utkarsh Singh | MM/DD/YY | Initial PRD draft |
| 1.10 | Sasha P. | MM/DD/YY | Added stakeholder details |

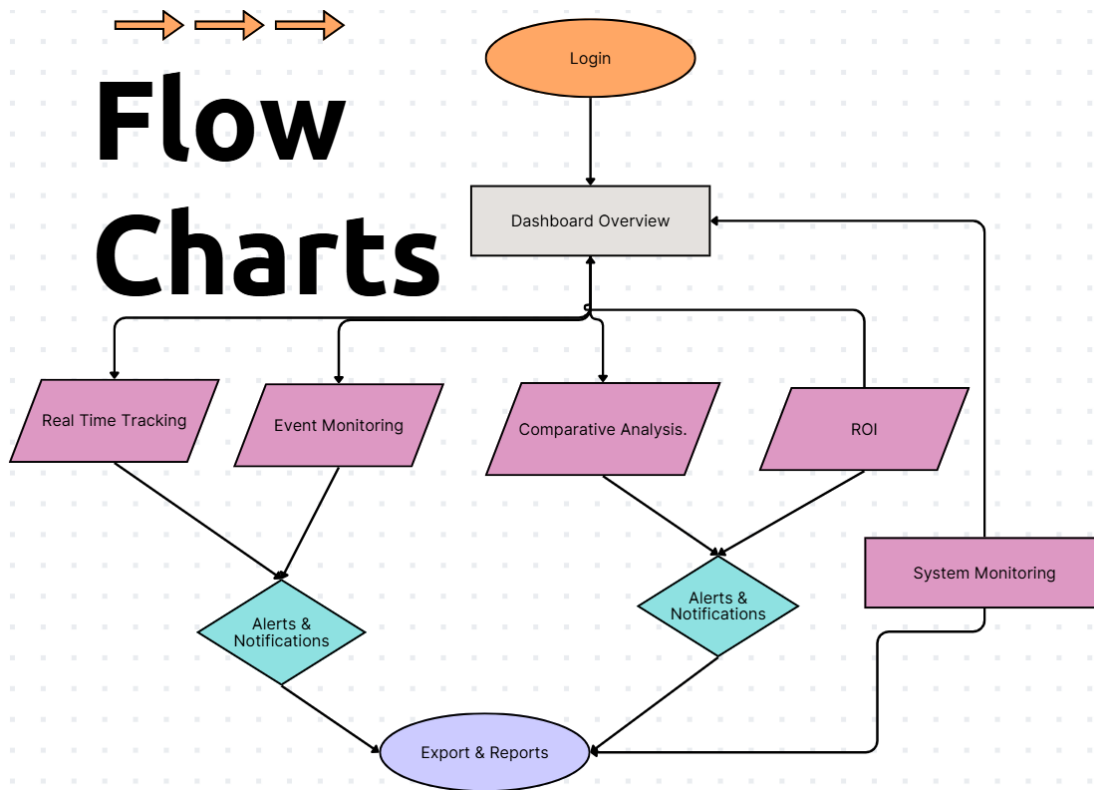
USER

WIREFRAMES

Web Platform User Journey:

1. Login/Authentication
2. Vehicle Selection
3. Real time fuel graph
4. Fuel Event Analysis
5. Comparison and Analysis
6. RoI Tracking

User Flow Diagram for Fuel Dashboard Feature



Web Platform Wireframes:

Link of the Design:

https://www.canva.com/design/DAGYuH5xTA8/1f6KepF9NvavcnrqiiAERg/view?utm_content=DAGYuH5xTA8&utm_campaign=designshare&utm_medium=link2&utm_source=uniquelinks&utm_id=h90a118e63e

1. Login/Authentication

000

taabi

Create new Account

[Already Registered? Login](#)

NAME

Jiara Martins

EMAIL

hello@reallygreatsite.com

PASSWORD

DATE OF BIRTH

Select

sign up

2. Vehicle Selection

Search

Dashboard Reports Settings Profile

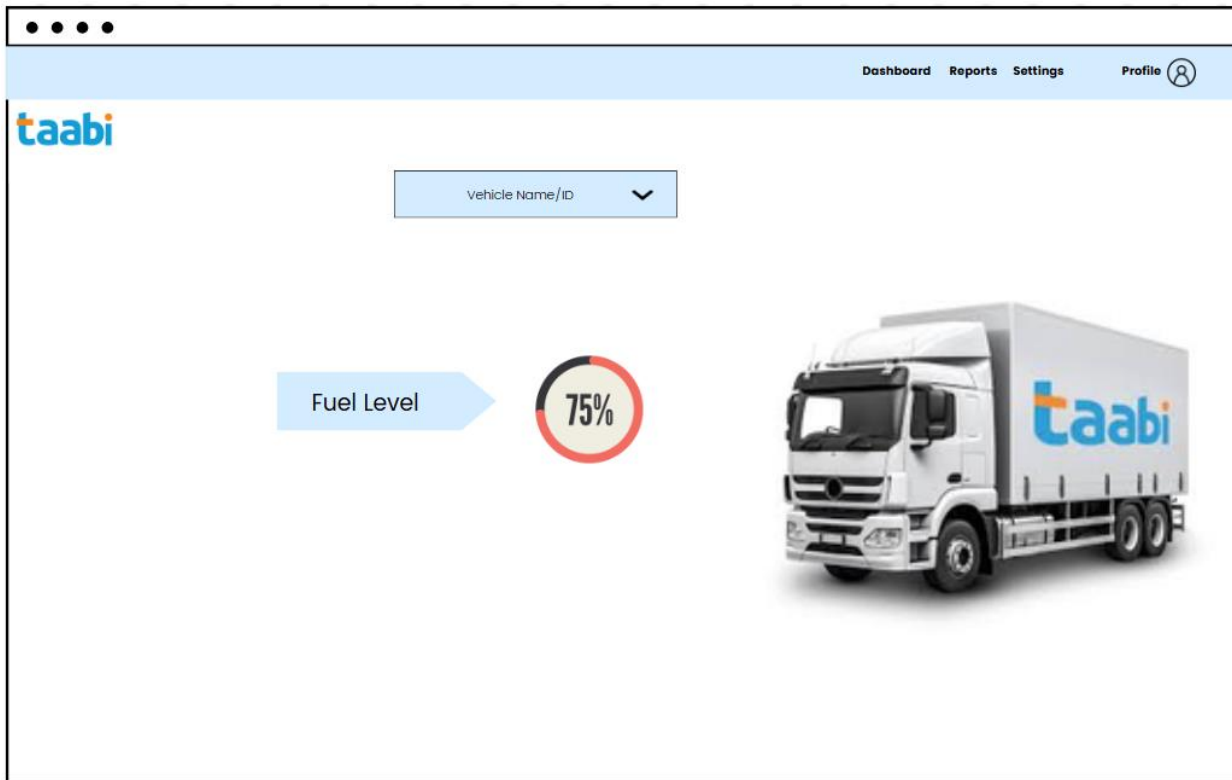
taabi

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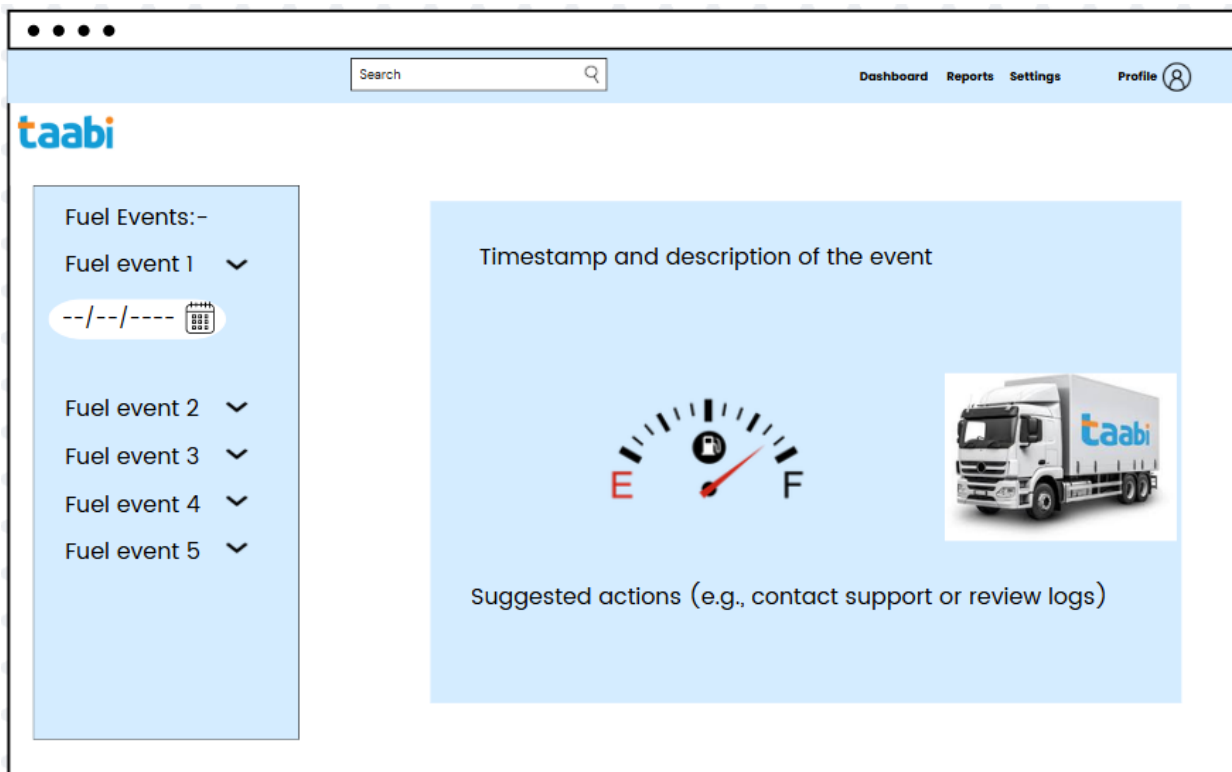
Vehicle Make/Model

Search

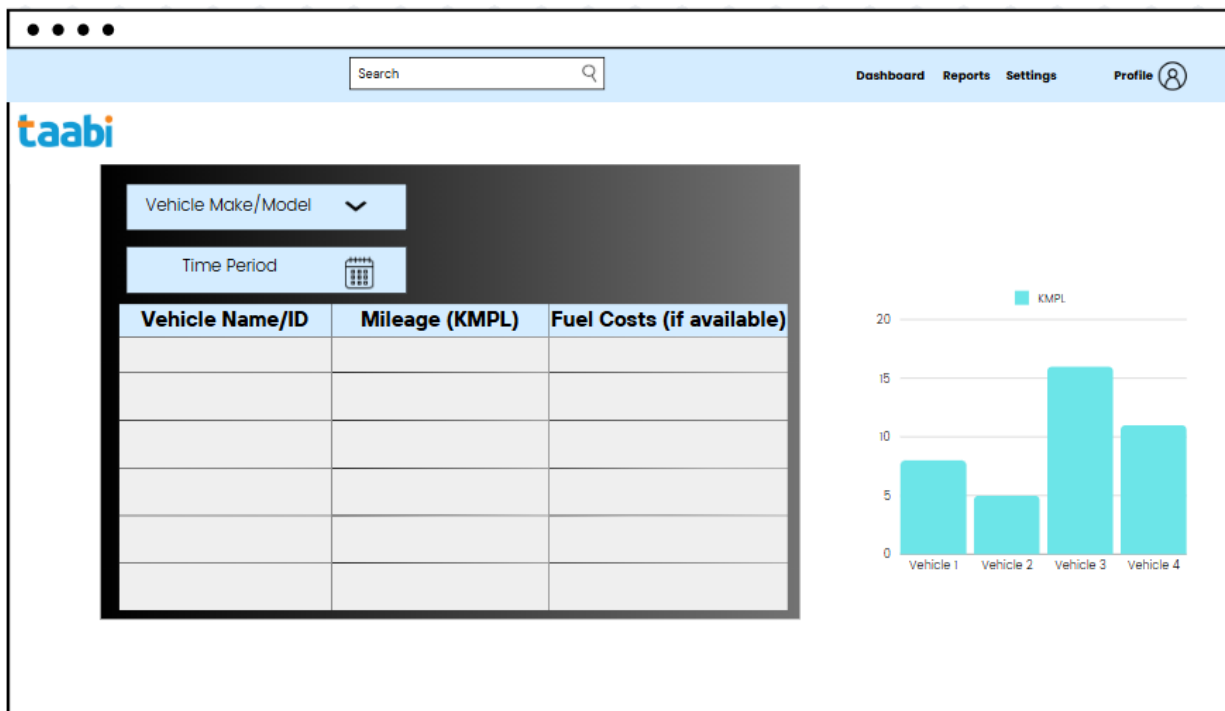
3. Real time fuel graph



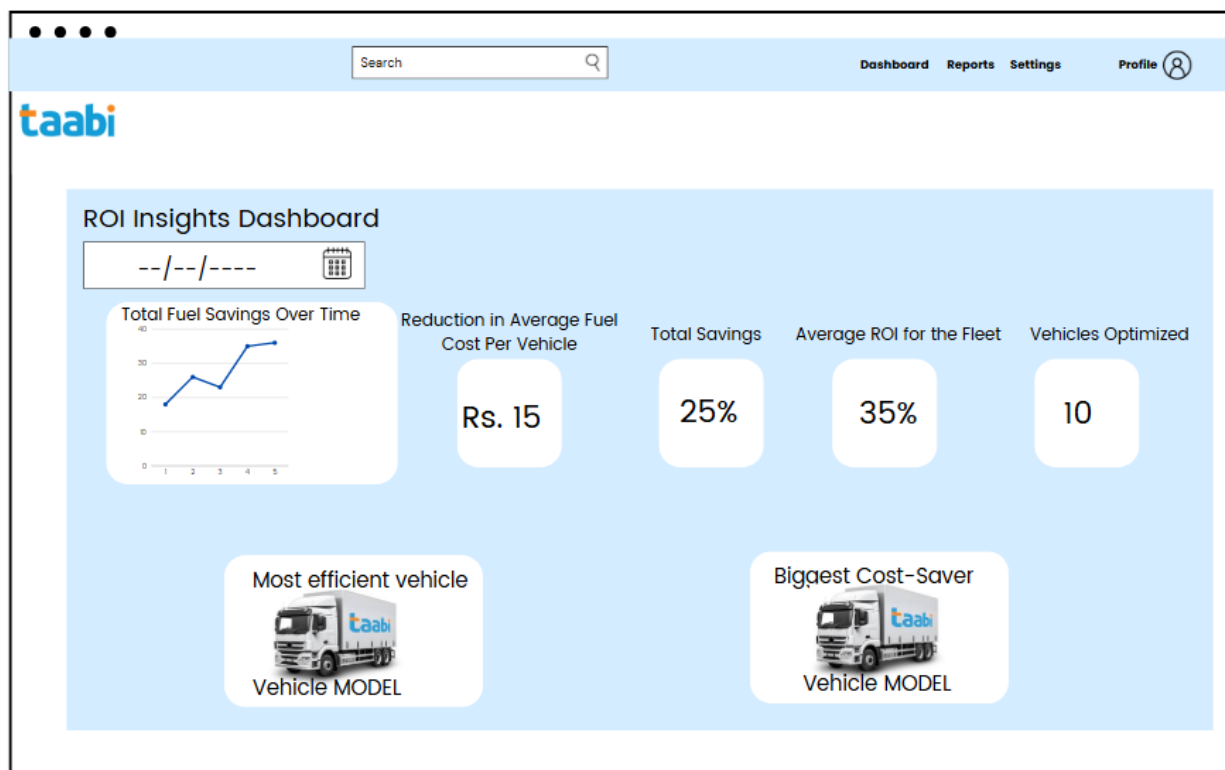
4. Fuel Event Analysis



5. Comparison and Analysis



6. ROI Tracking



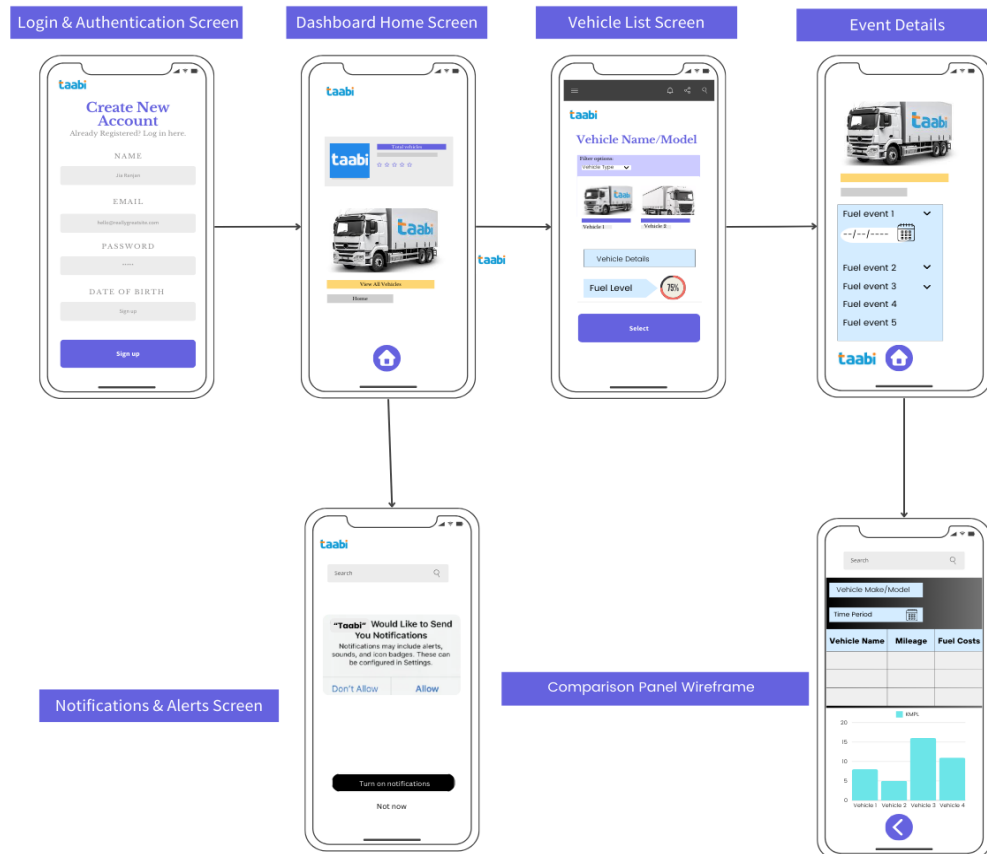
MOBILE WIREFRAMES

Mobile Platform User Journey:

1. Quick Login
2. Fleet Summary
3. Notification Center
4. Event Details
5. Basic Comparison View

Mobile Platform Wireframes:

Link: https://www.canva.com/design/DAGY8fbPznU/f4fm9mYByzhZe9cw87CguQ/edit?utm_content=DAGY8fbPznU&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton



2) TAABI FUEL MANAGEMENT DASHBOARD- USER PERSONAS

These are the key personas that will use the **Fuel Dashboard** feature on the **Taabi platform**. Each of the personas has specific goals, needs and pain points to be addressed so that the feature will add value to all stakeholders.

A) FLEET MANAGER-PRIYA SHARMA

| | | |
|--|--|--|
|  <p>Priya Sharma Age: 42 Occupation: Fleet Manager Experience: 15+ years Role: Logistics</p> | <p>GOALS</p> <ol style="list-style-type: none"> 1. Monitor real-time fuel levels for all vehicles. 2. Receive alerts for abnormal events like theft or unexpected fuel drops. 3. Track low fuel levels and plan refueling schedules. | <p>BACKGROUND</p> <p>Shreya manages a fleet of 150 trucks and is responsible for ensuring efficient operations. He is focused on reducing operational costs and improving fleet efficiency. Rajesh is moderately tech-savvy and values simple, actionable insights.</p> |
| <p>NEED OF DASHBOARD</p> <ol style="list-style-type: none"> 1. Real-time fuel tracking for all vehicles. 2. Alerts for sudden fuel changes, such as theft or refueling. 3. Easy comparison of fuel mileage (KMPL) for different vehicles. 4. Historical fuel data for trend analysis. | <p>PAIN POINTS</p> <ol style="list-style-type: none"> 1. Manual fuel monitoring is time-consuming. 2. Missed alerts about theft or fuel inefficiencies can lead to financial losses. 3. Lack of a centralized dashboard for quick decision-making. | <p>UX CUSTOMIZATION</p> <div> <div>Dashboard View</div> <div>Alert and Notifications</div> <div>Event Logs</div> </div> |

B) LOGISTICS ANALYST- SURESH KUMAR

Description:

The Logistic Analyst is responsible for analyzing data trends to enhance fleet efficiency, optimize fuel usage, and pinpointing underperforming vehicles.

| | |
|--------------------|--|
| GOAL | Compare fuel efficiency (KMPL) across vehicles and time periods. Analyze historical data to identify long-term fuel usage patterns. Generate actionable insights for operational improvements. |
| PAIN POINTS | Difficulty in identifying trends from raw data. Lack of accessible reports to share with management. Inconsistent or incomplete historical data. |

| | |
|-------------------------|--|
| UX CUSTOMIZATION | Comparative Analysis: |
| | Interactive graphs for KMPL trends across make, model, and vehicle. |
| | Filters for weekly, monthly, and custom date ranges. |
| | Export Options: |
| | Downloadable reports in Excel/CSV formats for data sharing. |
| | Historical Data View: |
| | Easy toggling between time periods for identifying consumption trends. |

C) MAINTENANCE MANAGER- AMIT PATEL

Description:

The Maintenance Manager ensures that vehicles are functioning efficiently and addresses issues like fuel theft or inefficiencies caused by poor maintenance.

| | |
|-------------------------|---|
| GOAL | Detect and address fuel theft or unauthorized usage. |
| | Monitor fuel consumption patterns to predict maintenance needs. |
| | Reduce downtime caused by vehicle inefficiencies. |
| PAIN POINTS | Limited visibility into event causes like fuel theft. |
| | Inefficient maintenance planning due to missing insights. |
| | Difficulty correlating fuel usage with vehicle health. |
| UX CUSTOMIZATION | Alerts and Logs: |
| | Detailed theft alerts with geolocation and driver info. |
| | Event logs with annotations for future reference. |
| | Predictive Maintenance: |
| | Insights on abnormal fuel usage tied to vehicle issues. |
| | Notifications for potential maintenance based on fuel trends. |

D) IT SUPPORT- VISHNU GOPI

Description:

The IT Support Lead monitors the system's technical performance, resolves issues, and ensures data consistency.

| | |
|-------------|--|
| GOAL | Detect and resolve issues like sensor malfunctions or data flow disruptions. |
| | Maintain system uptime and accuracy for seamless operation. |
| | Troubleshoot anomalies quickly using system logs |

| | |
|-------------------------|---|
| PAIN POINTS | <p>Reactive issue resolution leads to downtime.</p> <p>Insufficient monitoring tools for tracking system performance.</p> <p>Inconsistent data from IoT sensors complicates troubleshooting.</p> |
| UX CUSTOMIZATION | <p>System Monitoring Dashboard:</p> <p>Real-time view of sensor status and data transmission.</p> <p>Alerts for offline sensors or delayed data updates.</p> <p>Error Logs:</p> <p>Detailed logs for quick troubleshooting.</p> <p>Notifications for critical system issues requiring immediate action.</p> |

SUMMARY OF UX CUSTOMIZATION

| Persona | Key Features for UX Customization |
|----------------------------|--|
| Fleet Manager | Real-time dashboard, anomaly alerts, quick-access event logs |
| Logistics Analyst | KMPL comparative analysis, historical trends, exportable data |
| Maintenance Manager | Theft detection, predictive maintenance insights, annotated event logs |
| Senior Management | ROI visualizations, high-level summaries, tailored executive reports |
| IT Support | Real-time system monitoring, detailed error logs, alerts for system malfunctions |

3) TAABI FUEL MANAGEMENT DASHBOARD- USER STORIES

These user stories define the core functionality for the **Fuel Dashboard** feature, addressing the unique needs of different stakeholders. The acceptance criteria ensure that the product delivers value, is user-friendly, and provides actionable insights to all involved users.

A) EPIC 1: REAL TIME FUEL TRACKING

User Story 1: Dashboard Overview Visualization

| | |
|----------------------------|--|
| DESCRIPTION | <p>As a Fleet Manager,</p> <p>I want to see the real-time fuel levels of all my vehicles,</p> <p>so that I can monitor the fuel usage of the entire fleet and take action if any vehicle is using fuel inefficiently.</p> |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. The system should display the current fuel level for each vehicle. 2. Categorize fuel events into: Refueling Events, Sudden Fuel Level Changes, Idle Time Fuel Consumption 3. Highlight vehicles with low fuel levels 4. Refresh data every 5 minutes 5. Support filtering by vehicle type/location |

User Story 2: Historical Fuel Level Tracking

| | |
|----------------------------|--|
| DESCRIPTION | <p>As a Transportation Company Owner,</p> <p>I want to track fuel levels for any historical time period,</p> <p>So that I can analyze long-term fuel consumption patterns</p> |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. Date range selector with preset and custom options 2. Ability to select: Daily, Weekly, Monthly view and Custom date range 3. Graphical representation of fuel levels 4. Ability to compare multiple time periods 5. Export functionality for selected data |

B) EPIC 2: FUEL EVENT MONITORING

User Story 3: Event Detection and Automation

| | |
|--------------------|--|
| DESCRIPTION | <p>As a Fleet Manager,</p> <p>I want to be notified about any sudden changes in fuel levels and have these changes categorized by event type (e.g., refueling, theft),</p> <p>so that I can quickly identify and address any irregularities</p> |
| | <ol style="list-style-type: none"> 1. Automatically classify fuel events 2. Event types: Refueling, Fuel Drop, Potential Theft |

| | |
|--------------------------------|---|
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 3. Provide detailed event information 4. Generate alerts for suspicious events 5. Support manual event annotation |
|--------------------------------|---|

User Story 4: Event Alerts

| | |
|--------------------------------|---|
| DESCRIPTION | <p>As a Fleet Maintenance Manager</p> <p>I want to be alerted about potential fuel theft or unauthorized fuel usage</p> <p>So that I can quickly investigate and prevent financial losses</p> |
| ACCEPTANCE CRITERIA | <p>Alerts are triggered for:</p> <ol style="list-style-type: none"> 1. Theft indicators (unexpected fuel drop >10%). 2. Refueling anomalies (unregistered locations). <p>Alerts include:</p> <ol style="list-style-type: none"> 1. Vehicle ID, Geolocation, Timestamp. 2. Notifications are sent via: Email, SMS |

C) EPIC 3: COMPARATIVE ANALYSIS

User Story 5: Vehicle Efficiency Trends

| | |
|--------------------------------|--|
| DESCRIPTION | <p>As a Logistics Analyst,</p> <p>I want to compare the fuel efficiency (KMPL) of different vehicles,</p> <p>so that I can identify underperforming vehicles and recommend optimizations.</p> |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. The system should allow the Logistics Analyst to compare the fuel efficiency of vehicles by make, model, and time period. 2. The comparison should display a graphical representation (ex- bar chart) of fuel efficiency trends. 3. The Analyst should be able to filter data by date ranges (ex- weekly, monthly). |

User Story 6: Comparative Cost Analysis

| | |
|----------------------------|--|
| DESCRIPTION | <p>As a Financial Controller</p> <p>I want to understand the financial impact of vehicle fuel efficiency</p> <p>So that I can make data-driven decisions about fleet management</p> |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. Calculate and display: <ul style="list-style-type: none"> ➤ Fuel cost per vehicle ➤ Potential savings by replacing inefficient vehicles ➤ Comparative cost analysis 2. Projection of annual fuel expenses 3. ROI calculations for fuel management solution 4. Exportable financial summaries |

D) EPIC 4: ROI DASHBOARD

User Story 7: ROI Summary

| | |
|----------------------------|--|
| DESCRIPTION | <p>As a Senior Management</p> <p>I want to understand ROI of fuel management solution</p> <p>So that I can justify technology investment</p> |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. Calculate projected and actual fuel savings 2. Show visualizations (Line graph, pie chart) 3. Reports can be exported for stakeholders. |

E) EPIC 5: USER ACCESSIBILITY

User Story 9: Mobile Access

| | |
|--------------------|-------------------------------|
| DESCRIPTION | As a Mobile-First User |
|--------------------|-------------------------------|

| | |
|--------------------------------|--|
| | I want a consistent and intuitive experience across web and mobile platforms So that I can access critical fleet information from any device |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. The dashboard should be mobile-responsive and work across devices. 2. Support key functionalities like Real time tracking, Trends etc. 3. Push notifications for critical alerts. |

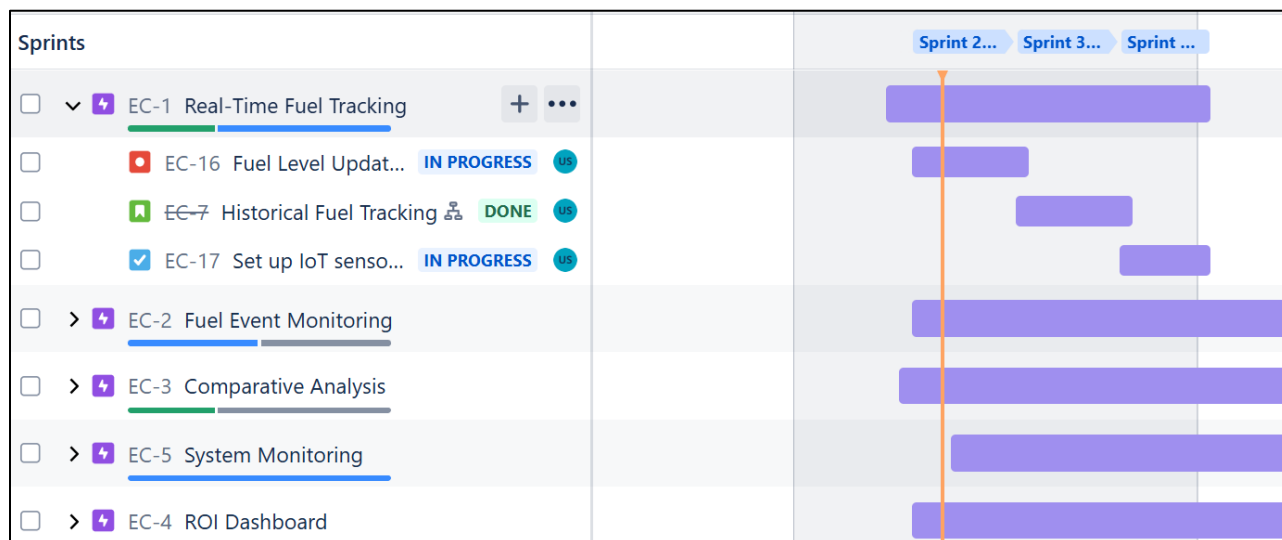
F) EPIC 6: SYSTEM MONITORING

User Story 9: System Performance Dashboard

| | |
|--------------------------------|--|
| DESCRIPTION | As an IT Support Lead, I want to monitor the system's real-time performance, so that I can quickly detect and resolve issues like sensor malfunctions. |
| ACCEPTANCE CRITERIA | <ol style="list-style-type: none"> 1. Display system health metrics: Data flow latency, Sensor uptime, Error rates. 2. Trigger alerts for: Sensors going offline, Data inconsistencies. 3. Logs are viewable and downloadable for analysis. |

Epics, User Stories, Tasks, Bugs (Jira Dashboard Backlog)

JIRA Link: <https://iitism-team-puzsvwls.atlassian.net/jira/software/projects/EC/boards/1/timeline>



4) TAABI FUEL MANAGEMENT DASHBOARD- SPRINT PLANNING

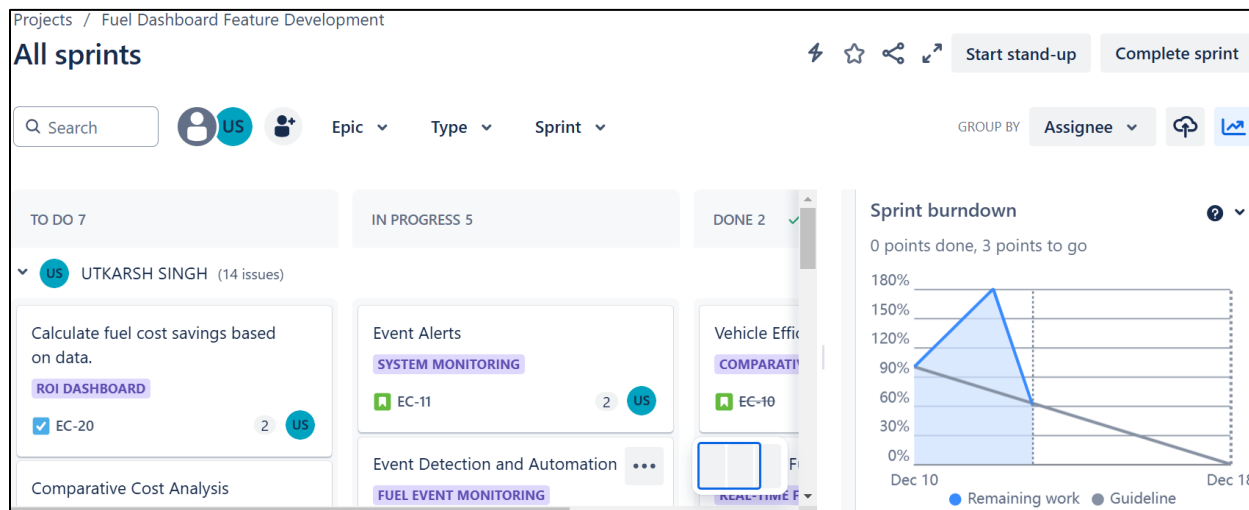
This **Sprint Planning** ensures that the team is focused on delivering specific features within each sprint while also allowing for testing, feedback, and iterative improvements. It also keeps the development within the **4-week timeframe** while maintaining focus on the core functionalities

Overview

| | |
|-------------------------|------------------------------------|
| DURATION | 4 Weeks |
| TEAM COMPOSITION | 3 Full Stack Developers, 1 QA Lead |

JIRA Board Configuration

1. Timeline
2. Sprint Backlog
3. In Progress
4. Testing
5. Done



Sprint 1: Core Features Development (Week 1)

Objective:

Develop foundational features: real-time fuel tracking and event detection.









| | |
|---------------------|--|
| USER STORIES | Real-Time Fuel Overview. Automatic Event Detection. |
| DEVELOPMENT | Backend: Integrate IoT sensors and handle real-time data streams. (2 days) Frontend: Build a real-time dashboard to display fuel levels (1 day) Event Detection: Implement logic for detecting refueling, theft, and sudden drops. (1 day) |
| TESTING | Validate real-time updates and data refresh rates (0.5 day) Test event detection logic accuracy (0.5 day) |

Sprint 2: Analysis and Historical Tracking (Week 2)

Objective:

Develop foundational features: real-time fuel tracking and event detection.

| | |
|---------------------|---|
| USER STORIES | Historical Fuel Tracking Vehicle Efficiency Trends |
| DEVELOPMENT | Backend: Build APIs to retrieve and aggregate historical data (2 days) Frontend: Design graphs and filters for comparative analysis (1.5 days) |
| TESTING | Validate historical data retrieval accuracy (0.5 day) Test KMPL comparison and trends visualization (0.5 day) |

| | | | | | | | | |
|---|--|-------------------------|-------------|---|---|---|---|-----------------|
| <input type="checkbox"/> Sprint 2: Analysis & Tracking 10 Dec – 18 Dec (4 issues) | | | | | 0 | 3 | 3 | Complete sprint |
| Build functionality for historical data access and initial fuel efficiency (KMPL) comparison. | | | | | | | | |
|  EC-10 | Vehicle Efficiency Trends | COMPARATIVE ANALYSIS | DONE | 2 |  | | | |
|  EC-7 | Historical Fuel Tracking | REAL-TIME FUEL TRACK... | DONE | 1 |  | | | |
|  EC-8 | Event Detection and Automation | FUEL EVENT MONITORI... | IN PROGRESS | 2 |  | | | |
|  EC-16 | Fuel Level Updates Not Reflecting in Real-Time | REAL-TIME FUEL TRACK... | IN PROGRESS | 1 |  | | | |

Sprint 3: ROI and Alerts (Week 2)

Objective:

Develop the ROI dashboard and implement the alerts system

| | |
|---------------------|---|
| USER STORIES | ROI Summary Event Alerts |
| DEVELOPMENT | Backend: Calculate ROI metrics and integrate alert thresholds (1.5 days) Frontend: Design the ROI dashboard with exportable reports (1 day) Alerts: Implement SMS/email notifications for critical events (1 day) |
| TESTING | Validate ROI calculations and metrics display (0.5 day) Test alert triggers and notification delivery (0.5 day) |

| | | |
|--|---------------------------------|-----------------|
| <input type="checkbox"/> Sprint 3: ROI and Alerts 18 Dec – 26 Dec (5 issues) | 1 2 1 | Complete sprint |
| Implement the Return on Investment (RoI) dashboard and set up alerts for anomalies and abnormal fuel events. | | |
| EC-14 ROI Summary | ROI DASHBOARD DONE ✓ | 1 US |
| EC-11 Event Alerts | SYSTEM MONITORING IN PROGRESS ▾ | 2 US |
| <input checked="" type="checkbox"/> EC-20 Calculate fuel cost savings based on data. | ROI DASHBOARD TO DO ▾ | 1 = US |
| <input checked="" type="checkbox"/> EC-18 Implement event detection algorithm (e.g., sudden increase for refueling, sud... | FUEL EVENT MONITORI... TO DO ▾ | - US |
| <input checked="" type="checkbox"/> EC-21 Design RoI summary widget on the dashboard. | ROI DASHBOARD TO DO ▾ | - = US |

Sprint 4: Final Testing and Deployment (Week 4)

Objective:

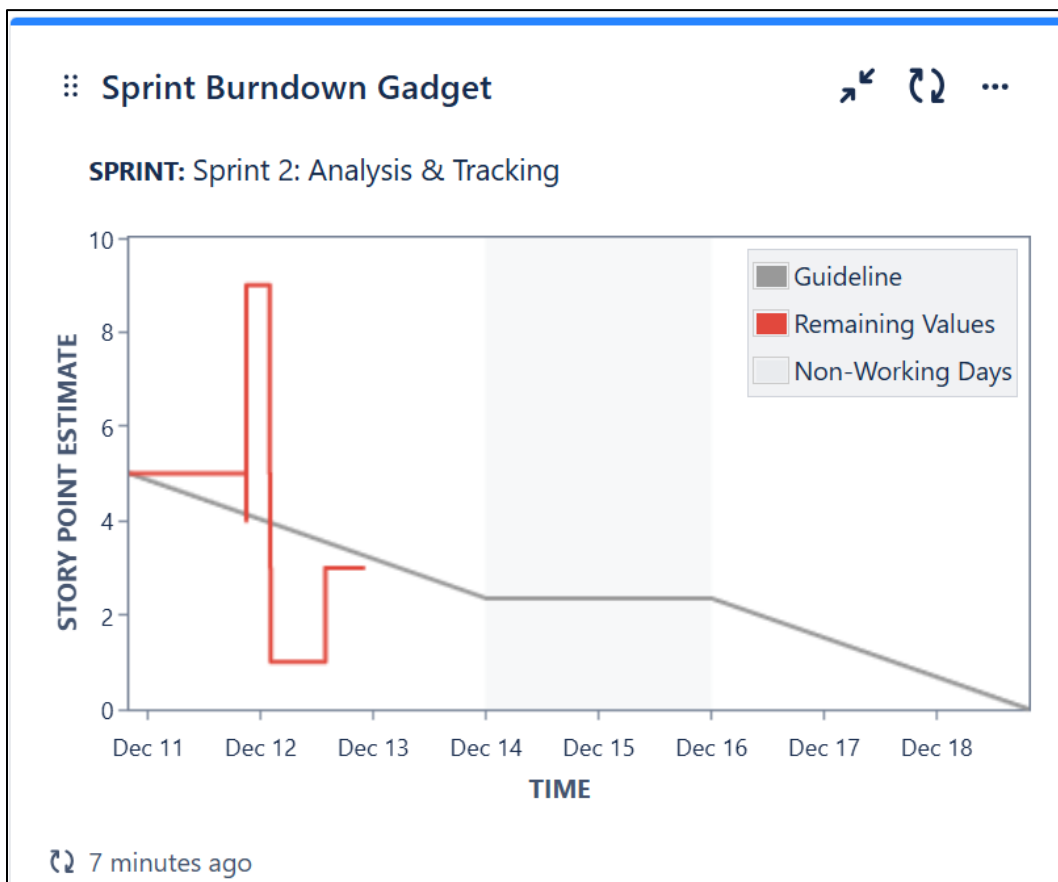
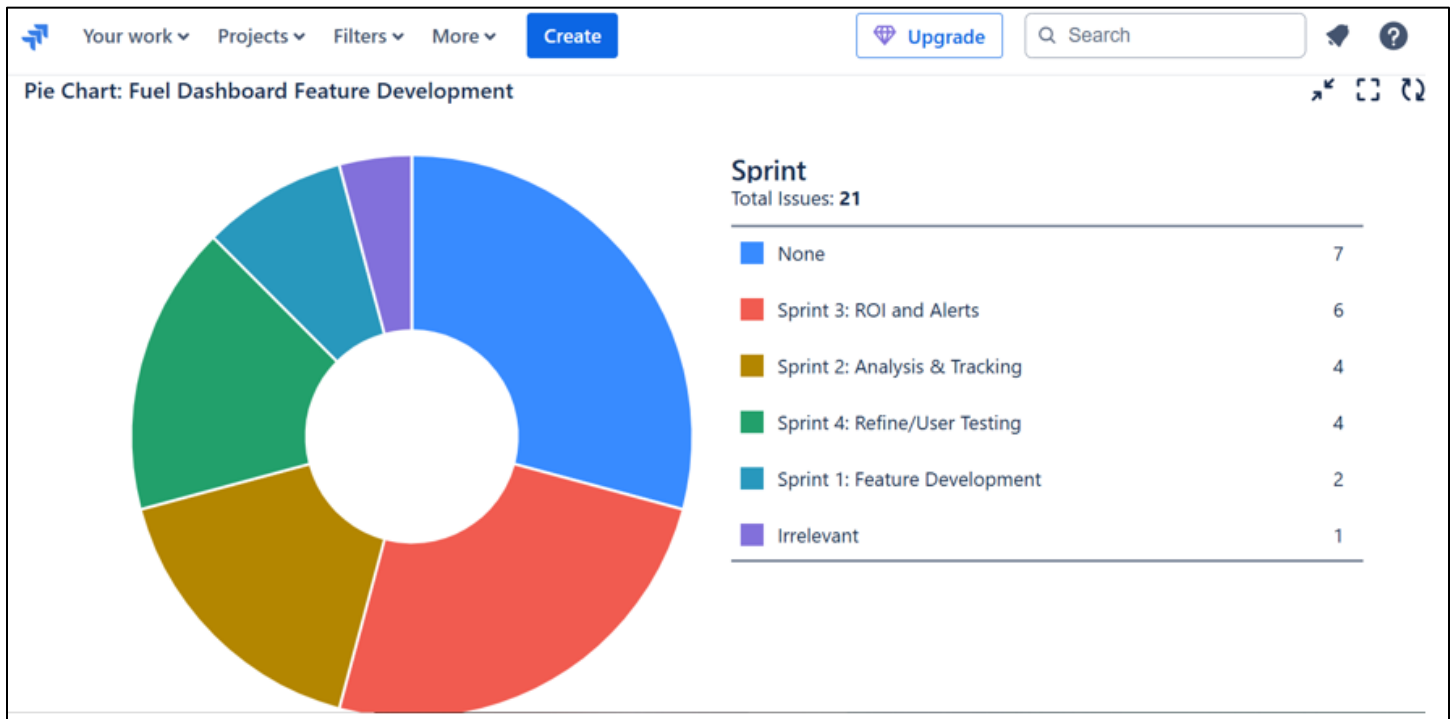
Optimize performance, ensure mobile compatibility, and finalize for release.

| | |
|---------------------|---|
| USER STORIES | Mobile Access System Monitoring Dashboard |
| DEVELOPMENT | Mobile: Make the dashboard responsive for mobile devices (1 day) Monitoring: Develop real-time system performance metrics (1.5 days) Add export functionality (Excel/CSV) (1 day) |
| TESTING | Perform end-to-end testing, including UAT (1 day) Test load handling for up to 500 vehicles (0.5 day) |

| | | |
|---|---------------------------------------|-----------------|
| <input type="checkbox"/> Sprint 4: Refine/User Testing 26 Dec – 1 Jan (4 issues) | 0 0 0 | Complete sprint |
| Final testing, bug fixing, and optimization of all features. Prepare the feature for deployment. | | |
| EC-15 Mobile Access | USER ACCESSIBILITY IN PROGRESS ▾ | - = US |
| EC-12 System Performance Dashboard | SYSTEM MONITORING IN PROGRESS ▾ | - US |
| <input checked="" type="checkbox"/> EC-17 Set up IoT sensor integration for real-time data | REAL-TIME FUEL TRACK... IN PROGRESS ▾ | - US |
| <input checked="" type="checkbox"/> EC-19 Develop backend logic to calculate KMPL for each vehicle. | COMPARATIVE ANALYSIS TO DO ▾ | - US |

JIRA Dashboard for Tracking

DASHBOARD LINK: <https://itism-team-puzsvwls.atlassian.net/jira/dashboards/10001>



Issue Statistics: Fuel Dashboard Feature De...



| Issue Type | Count | Percentage |
|--|-----------|------------|
| <input checked="" type="checkbox"/> Task | 5 | 24% |
| <input type="checkbox"/> Subtask | 1 | 5% |
| <input type="checkbox"/> Story | 8 | 38% |
| <input type="checkbox"/> Epic | 6 | 29% |
| <input type="checkbox"/> Bug | 1 | 5% |
| Total | 21 | |

2 minutes ago

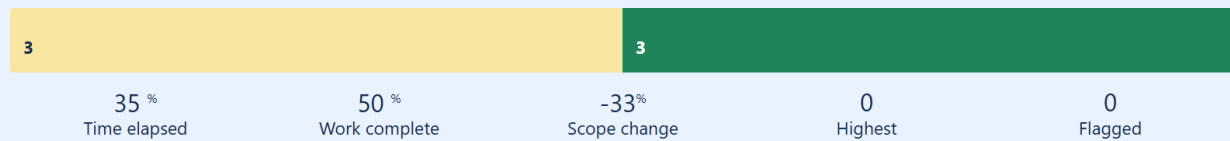
Sprint Health Gadget



Sprint 2: Analysis & Tracking - SCRUM board

Overall sprint progress (Story point estimate)

3 days left



Filter Results: Fuel

| T | Key | Summary | P | Assignee |
|-------------------------------------|-------|--|--------------------------|---------------|
| <input type="checkbox"/> | EC-23 | Comparative Cost Analysis | <input type="checkbox"/> | UTKARSH SINGH |
| <input checked="" type="checkbox"/> | EC-20 | Calculate fuel cost savings based on data. | <input type="checkbox"/> | UTKARSH SINGH |
| <input type="checkbox"/> | EC-16 | Fuel Level Updates Not Reflecting in Real-Time | <input type="checkbox"/> | UTKARSH SINGH |

5) TAABI FUEL MANAGEMENT DASHBOARD - COMMUNICATION AND SYNC-UP STRATEGY

Robust sync-up process is essential for seamless communication between the tech team and stakeholders. This process ensures the **Fuel Dashboard Feature** is delivered **on time, bug-free**, and with a **great user experience**.

Step 1: Clear Roles and Responsibilities

Tech Team:

| | |
|------------|---|
| DEVELOPERS | In charge of testing, coding, and problem-solving. |
| QA LEAD | Validates functionality, identifies bugs, and ensures a quality release. |
| TESTING | Oversees technical progress, resolves blockers, and communicates with stakeholders. |

Stakeholders:

| | |
|------------------|--|
| PRODUCT MANAGERS | Ensures features align with business goals |
| UX/UI DESIGNERS | Provides feedback on user experience and visual design |
| STAKEHOLDERS | Confirms that deliverables satisfy market demands. |

Step 2: Establish Sync-Up Meetings

Daily Stand-Ups (15 minutes):

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|--------------|--|
| PARTICIPANTS | Entire tech team |
| GOAL | Track daily progress, resolve blockers quickly, and ensure team alignment. |

Mid-Sprint Sync-Up (30 minutes):

| | |
|--------------|--|
| PARTICIPANTS | Product Manager, Tech Lead, QA Lead |
| GOAL | Reduce risks and make sure the sprint doesn't veer off course. |

Step 3: Communication Channels and Tools

Real Time Collaborations Tools:

| | |
|------------------|--|
| SLACK / MS TEAMS | For instant communication, including bug updates and announcements. |
| CONFLUENCE | For documenting decisions, sync-up meeting minutes, and user feedback. |

Task Tracking:

| | |
|------|---|
| JIRA | Assign clear ownership for each task. Use tags like Bug, In Progress, or Testing for transparency. |
|------|---|

Step 4: Testing and Bug Resolution Process

Bug Reporting and Testing:

| | |
|-------------------|--|
| QA TESTING | Use a bug-tracking system (Jira) with detailed issue descriptions. |
| UAT | Conduct User Acceptance Testing with stakeholders |

Step 5: Regular Stakeholder Updates

| | |
|-------------------------------|---|
| WEEKLY PROGRESS REPORT | Share reports summarizing: Completed tasks, Identified and resolved bugs, Pending tasks and risks Use Jira Dashboard to visualize sprint progress, completed stories, and bug resolution rates |
|-------------------------------|---|

Step 6: Monitoring and Feedback

| | |
|----------------------------|--|
| TOOLS | Use Application Performance Monitoring (APM) tools like Datadog or New Relic to track system health. |
| FEEDBACK COLLECTION | Implement a system for users to report issues (Ex- in-app feedback form). |

Example Sync-Up Calendar

| Timeframe | Meeting | Participants | Agenda |
|-----------------|--------------------|----------------------------------|--|
| Daily (9:00 AM) | Stand-Up | Tech Team, QA Lead, PM | Updates on progress, blockers, and tasks for the day. |
| Weekly | Sprint Review | Tech Team, QA Lead, Stakeholders | Review completed tasks, demos, and Sprint planning. |
| Bi-Weekly | Testing Sync-Up | Tech Team, QA Lead | Testing progress and bug prioritization. |
| Final Week | Pre-Release Review | Tech Team, Stakeholders | Approve the final product for release based on testing and feedback. |