

UI template for a smart leakage detection system:

Dashboard:-

1. Header:
 - Logo
 - Navigation menu (Pipeline Map, Alerts, Reports, Settings)
2. Pipeline Map:
 - Interactive map displaying pipeline layout
 - Real-time leakage indicators (color-coded: green - normal, yellow - warning, red - critical)
 - Zoom and pan functionality
3. Alerts Panel:
 - List of recent alerts with timestamp, location, and severity
 - Filter by severity and date range
4. Key Metrics:
 - Total pipeline length
 - Number of sensors
 - Average pressure
 - Total alarms

Alert Details:-

1. Alert Header:
 - Timestamp
 - Location
 - Severity (icon and text)
2. Leak Information:
 - Leak size (volume)
 - Leak rate (flow rate)
 - Pressure drop
3. Sensor Data:
 - Temperature
 - Pressure
 - Flow rate
4. Actions:
 - Acknowledge alert
 - Dispatch maintenance team
 - View on map

SMS Alert:-

1. Message format:
 - "LEAK ALERT: [Location] [Timestamp] [Severity] - [Leak size] [Leak rate]"
- Example: [Jagadishpur/dhamra pipeline project]-[5:00am]-[20%-40%]-[0.005m3/per m3]

2. Customizable message template

Reports:-

1. Leak History:

- Table with date, time, location, severity, and leak size
- Filter by date range and severity

2. Sensor Performance:

- Chart displaying sensor accuracy and reliability

3. Maintenance Logs:

- Table with maintenance date, time, location, and actions taken

Settings:-

1. User Management:

- Add/edit/delete users
- Assign roles (admin, operator, maintenance)

2. Sensor Configuration:

- Edit sensor settings (thresholds, sensitivity)

3. Notification Settings:

- Customize SMS message template
- Set notification frequency

Pipeline Map (Mobile View):-

1. Simplified map view
2. Leakage indicators
3. Zoom and pan functionality

SMS Alert (Mobile View):-

1. Compact message format
2. Tap to view alert details

Icon Set:-

- Pipeline:
- Leak:
- Sensor:
- Alert

Responsive Design:-

- Desktop: 1920px+

- Tablet: 768px-1919px
- Mobile: 480px-767px