

Business Model Canvas

<div>Key Partnerships</div> <div>- Requirements:Smart Water Leakage Infrastructure: This involves IoT sensors detecting water leaks, measuring parameters like flow rate, pressure, humidity, etc.Mobile Application: The application will receive and display SMS alerts with the issue's details, including time, location, and severity of the leak.Canvas Integration: Use HTML5 Canvas to display an interactive map or a schematic of the infrastructure and highlight areas where the leak was detected</div>	<div>Key Activities</div> <div>- Features Overview:SMS Alerts:Real-time Notifications: Mobile app receives SMS alerts when a leak is detected.Alert Information: Each alert contains:Leak Location: Where the leak was detected (e.g., street address, or specific room/building).Time of Detection: When the issue occurred.Severity Level: Critical, Warning, or Information.Map Link: Link to view the location on Google Maps.</div>	<div>Value Propositions</div> <div>- Canvas Visualization (Frontend):You can use HTML5 Canvas to draw a map or schematic of the infrastructure. Here's an example of how to create a simple canvas and highlight a location dynamically when an alert arrives: - Mobile SMS Alert System:Use an SMS gateway to send alerts with the issue details. Here's how you can set up the SMS notification system using Twilio in Node.js</div>	<div>Customer Relationships</div> <div>- This architecture allows for real-time monitoring of water infrastructure with visual alerts on a canvas and SMS notifications for mobile users, ensuring quick responses to potential issues.</div>	<div>Customer Segments</div> <div>- To develop a mobile SMS application to alert and display issues for smart water leakage infrastructure systems, specifically for a Canvas-based application (using HTML5 Canvas), we can structure the solution with both mobile alerts (SMS) and interactive visualizations on a Canvas. Here's how to approach this</div>
	<div>Key Resources</div> <div>- Future Enhancements:Push Notifications: Switch from SMS to push notifications for real-time updates.AI-based Leak Prediction: Integrate machine learning to predict potential leaks based on sensor data and historical trends.User Acknowledgement: Allow users to acknowledge or resolve the issue via SMS or the mobile app.</div>		<div>Channels</div> <div>- Mobile App Integration (SMS Receiver):React Native or Flutter: Use libraries like react-native-sms or sms in Flutter to read SMS messages.When an SMS is received, parse the message, extract the alert data (location, time, severity), and update the Canvas visualization accordingly.</div>	
<div>Cost Structure</div> <div>- SMS Gateway: Twilio, Nexmo, or MessageBird for SMS.</div>			<div>Revenue Streams</div> <div>- Canvas-based Visualization:Map or Schematic View: Show a visual representation of the water infrastructure (building layout, pipelines, or a district map).Dynamic Updates: Highlight the leak location on the canvas and update the status as new alerts arrive.</div>	