

PROJECT NAME: SMART FARMING	TEAM ID	PNT2022TMID14790
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		IOT ENABLED SMART FARMING APPLICATIONS



# SmartFarmer - IoT Enabled Smart Farming Application



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## SmartFarmer - IoT Enabled Smart Farming Application

<div>SCENARIO</div> <div>Smart farming tools can help reduce these impacts, minimise environmental constraints and reduce production costs in farming activities</div>	<div></div> <div>Entice</div> <div>How does someone initially become aware of this process?</div>	<div></div> <div>Enter</div> <div>What do people experience as they begin the process?</div>	<div></div> <div>Engage</div> <div>In the core moments in the process, what happens?</div>	<div></div> <div>Exit</div> <div>What do people typically experience as the process finishes?</div>	<div></div> <div>Extend</div> <div>What happens after the experience is over?</div>
<div></div> <div>Steps</div> <div>What does the person (or group) typically experience?</div>	<div>Visit the website or app</div> <div>It shows our website or app</div> <div>Check the Weather</div> <div>It will check the weather of our location</div> <div>Check the humidity</div> <div>It uses sensor to measure humidity</div>	<div>Login to the App</div> <div>The user can login by either email or phone number</div> <div>Check the soil moisture</div> <div>Show the moisture level of the soil</div> <div>view the humidity of the soil</div> <div>Check the humidity level</div>	<div>Alert Message</div> <div>you can alert when there is a problem</div> <div>Switch on/off the motor</div> <div>Use mobile app to switch the motor ON/ OFF</div>	<div>Ensure the yield of the crop</div> <div>It can monitor the growth of the crop</div> <div>Submitting Feedback</div> <div>The user can give reviews and feedback on where to improve</div>	<div>Farming in the user profile</div> <div>The customer can access the at any time</div> <div>Personalized Work</div> <div>Reduce of man power</div>
<div></div> <div>Interactions</div> <div>What interactions do they have at each step along the way?</div> <div><div>■ People: Who do they see or talk to?</div><div>■ Places: Where are they?</div><div>■ Things: What digital touchpoints or physical objects would they use?</div></div>	<div>Signup/Signin page for the users</div> <div>The customer can use our own app or any online browser</div>	<div>Weather Forecast shows the weather for routine days</div> <div>We can check the condition of the soil</div>	<div>We can monitor the field through our mobile</div> <div>It show the Temperature and humidity of our field</div>	<div>Safety of the field</div> <div>They will be able to use the app with our technical assistance</div>	<div>They will have good experience while using this app and they will have productive yields</div>
<div></div> <div>Goals &amp; motivations</div> <div>At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")</div>	<div>Access from anywhere at any time</div> <div>Help the user to understand temperature and climate condition</div>	<div>Automatic irrigation</div> <div>Initially the growth of the plants can be seen &amp; it provides more hope to use the application</div>	<div>Manage livestock with rich data insights</div> <div>The user will compare the growth and production before and after the use of application</div>	<div>Sensor-based smart precision agriculture</div> <div>It lowers the productivity loss and to make farming easier</div>	<div>They will expand their usage to other farming application</div>
<div></div> <div>Positive moments</div> <div>What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div>	<div>At first there will be excited to see on how the technology works</div> <div>reduce production costs in farming activities</div>	<div>Remote crop yield optimisation</div> <div>Smart warehousing, logistics and distribution</div>	<div>Remote asset monitoring</div> <div>Greenhouse monitoring with real-time data</div>	<div>Weed control</div> <div>Improve the quality of the produce</div>	<div>The user may recommend their ideas about the app and help people to work with the app</div>
<div></div> <div>Negative moments</div> <div>What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div>	<div>At first they will find the app harder to understand and will have trust issues</div> <div>Hardware maintenance</div>	<div>In some rural areas the network connectivity was poor</div> <div>Power supplies</div>	<div>Each connected device should have enough wireless range to communicate</div> <div>Safe and timely delivery of a wide variety of data types</div>	<div>IoT technology in agriculture implies working with large sets of data</div> <div>It's important that any sensors or other hardware collect data accurately and reliably</div>	<div>Whether it will increase our crop yield</div>
<div></div> <div>Areas of opportunity</div> <div>How might we make each step better? What ideas do we have? What have others suggested?</div>	<div>Smart Precision Farming</div> <div>End-to-end Smart Farm Management</div>	<div>Agricultural Drones</div> <div>Livestock Monitoring</div>	<div>Electric Fence Theft Monitoring</div> <div>CCTV</div>	<div>Crop Yield Optimisation</div> <div>More control over internal processes</div>	<div>Increase agricultural efficiency</div>