

DMI ENGINEERING COLLEGE
ARALVOIMOZHI
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

PROJECT DESIGN PHASE I-PROBLEM SOLUTION FIT

IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

TEAM LEADER: RANISHA R U

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Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none">Commercial FarmersMarginal FarmersCrop importers	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> <ul style="list-style-type: none">Soil related problemsLimited landFarming equipments	5. AVAILABLE SOLUTIONS AS <small>PROS & CONS</small> <ul style="list-style-type: none">Proper fencing around the landEnough food to animalsProtection to avoid field fires	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <small>+ ITS FREQUENCY</small> <ul style="list-style-type: none">Climatic ConditionLivestock will graze the cropsLoss of money	9. PROBLEM ROOT / CAUSE RC <ul style="list-style-type: none">No enough animal feed,Because of this problem, Animals graze the cropsPrevent loss for farmersDue to high temperature, Crops catch fire	7. BEHAVIOR BE <small>+ ITS INTENSITY</small> <ul style="list-style-type: none">Preparation of soilBasic practices of crop protectionAdapting to new technology for crop protection	
Identify strong TR & EM	3. TRIGGERS TO ACT TR <ul style="list-style-type: none">Agricultural practicesMaintainingsoil fertilityManagerial decision	10. YOUR SOLUTION SL <ul style="list-style-type: none">Availability of irrigation facilitiesMonitoring temperatureUsing temperature sensorsMonitoring animal movements in yield	8. CHANNELS of BEHAVIOR CH <div>ONLINE<ul style="list-style-type: none">Manuring</div> <div>OFFLINE<ul style="list-style-type: none">Crop managementHarvesting and storage</div>	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> <ul style="list-style-type: none">Frustration due to crop damageMental illness due to money scarcity			