## PROJECT LOGBOOK Student Name! Akansha Bhatia - Moog75443 Lecture Name! Prof. Pr. Judhi Prasetyo Course! PDE 4432.

Project Name: Smart Watering system + Garden Management:

Pate: November - December 2024

Project Plan and timeline Written on 12 Nov  Week 1 - 11 to 16 Nov  Besearch and finalization of scope of work  ** Research about what plants need to  Survive and grow + about UAR weather  conditions  ** Understand when system and challenge,  ** Start with checking parts in Ardvino  Starter Kit and build basic system
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A Understand whent system and challenges
** Understand whent system and challenges
Starter kit and build basic system
Starter hit and boild basic system
_
Week 2 - 18 to 23 Nov
System design and purchasing component
System design and purchasing component : ** Kinalize proper system design and wiring : document on Tinker Cad
document on Tinker Cad
A Pricelace manifold as to a A
+ Purchase required parts on Amazon and test.
* Start building code and checking components.
Neek 3 - 25 to 30 Wov
* Finish bug fixing and clear all issues.
A Test demo project to make some everything.

\* X Start writing introduction of topic, Challenges and system design in paper. Week 4 - 2 to 7 acc Work on paper and presentation \*\* Finish at least 3 pages of paper > -Research of plants + UAR weather + system design-A Start with preparing presentation slides \* Test and practice with domo projects Week 5 - 9 to 14 Dec \* Finish presentation A finish last 3 pages of paper - writing about components of demo and fiture implementation Week 6 - 16 to 18 pec \* Finish re-reading paper and checking it \* Anish uploading code on Git Hub \* Finish recording demo project \* \* \* 18 Dec - Upload submission

	Las Barb Parast
	Log Book Report
	Week 1
	VOLE (F
	12 Nov
A	First idea - Robot chassis
	Controlling movement of Robot - Ultrasonic sensor - remote condrol
	Controlling movement of Robot - Ultrasonic =
	301/301 - 1 ethor (31/310)
	basic and doesn't have any objective or
	problem to solve.
	Feedback: Professor sold no as it is too basic and doesn't have any objective or problem to solve.
×	Second idea - Smort home garden system
_	- Soil moisture to check water in soil - sturn on
	water pump
_	- Photoresistor to check sulight strn on servo
	mata
	Water level to shock water tank > turn on LED light  Feedback: professor said ok
	Feedback: professor said of
	13 NOV
	Started building demo project to begin with
	idea and understand components.

15 Nou Finalize system design with below components
Lucter level sensor-LED-PhotoresistorMmr seno motor -LCD - relay. Missing parts i soil maisture consor - water pump buttery case & Placed order on Amazon Week 2 19 NOU Created proper wiring document on TinkerCad Used component available in TinkerCood and then edited the rest by adding it manually to picture Parts ordered from Amazon got delivered 20 Na Soldered relay, buttery case and water pump. Finishing wiring everything to breadboard and Finishing cale and toshing all me aspects

-	Week 3
	26 Nay
	Facing issue with unusual characters
	coming on serial monitor and LCD
	Issue solved by replacing Arduino Uno - did wiring all again from beginning
	did wiring all again from beginning
	7
	Testing demo project for checking on any issues.
	issues.
	27 NOU
	Started writing about research on UAK + plants
	Finished I page of paper
	Wax 4
	2 pec
	finished writing about correct system and challenges
	Finished I more page 3 Total pages done =2
	3 Pec
	Started withing about commonwest of down and
	Started writing about components of demo project

Finished I more page I Total pages done = 3
4 Pec
Started designing presentation Slides
finished writing about components of demo project - 2 more pages done > Total pages done = 5
Week 5
10 Dec
finished presentation slides
1) Pec
My presentation completed in class
14 Pec
Checked code and tested again the domo project
Uploaded code on Github.
Week 6 - 17 Pec.
Finished writing introduction, conclusion and abstract Checked everything and finish submission.