Assignment-1
Define a problem statement and give a brief executive summary snapshot.
executive summary shapshot.
A) Executive summary
Solar energy is rapidly growing industry with
globally installations increasing Annually.
Solar energy is rapidly growing industry with globally installations increasing Annually. However, Dust, dirt, bird droppings & debris comes
on solar panel. Because of that, the sunlight.
can't reach to panels, Due to that the
efficiency of solar panel reduce up to 30%.
The life of the panels are void.
The current cleaning methods are:-
1) manually by boush.
2) Water pressure
3) Electricity For cleaning (for water pressures)
· Because of that, Time is highly-consumed.
wastage of water
cost of labour
o labour intensive

B) Popject Description
The primary goal of this project is to design
und develop a autonomous robot, capable
of cleaning the solar panel safely, ensuring
the maximum efficiency and production.
In order to save water and energy and
thus reduce the uses of water and labour
through our services. We need Design and
mechanical components such as ?-
1) Morce no anti-
1) Movement mechanism
2) Cleaning mechanism 3) Durability
4) Technical and sensor systems
5) User interface and control
6) safety and maintenance
7) Eco-Friendly material
o Challenges which would be faced during project &
p operational and rechtifical issues.
2) Cost-related issues
3) Autonomous operation problem.
4) user interaction and integration challenges
By Undertaking this project, we will ensure that,
we will increase the lifespap of solar panels
with reduced maintenance cast improved safety.
consistent cleaning, enhanced energy efficiency, reduced labour cost, etc.
reduced labour cost, etc.

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2	Project Scope
	Providing a cleaning robot to maintain the
	providing a cleaning robot to maintain the optimal performance and efficiency of the
	solar panels.
	to seach costomers to solur pune creating robor
	To reach customers for solar panel cleaning robot can be done by various marketing strategies:
_1)	Social media 6) Email marketing
_2)	Online advertising 7> Referral program
3)	Industry events 8) Direct outreach
	Partnerships 9> Online directories
_^	Content marketing 10> Public relations
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	We will provide Services on software
-	application which helps cystomes to contac
_	US through app. laiving a quality services
	in time. The software will help the customer
	to schedule the cleaning panels as nex
	their requirement. It will be bydaet friendly
	to schedule the cleaning panels as per their requirement. It will be budget friendly for customers. It provides 24x7 services.
	cost of cleaning 1 panel = 7500
	The Deadline of this project is 7 months.
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