

# The Surveillance Robot

By Ganesh Rajure



# Why the Surveillance robots are needed?

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Law enforcement people are working under heavy workload

# Project

Website

- <https://sites.google.com/view/dhaalcomplete-defence>



# Root To Reach the Destination

To get ready our project!

- Catch the problem (Interview)
  - Analyse the problem(Problem Statement)
  - Find the solution(Through Simulation)
  - Find the appropriate Solution
  - Build Demo
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# Interviews Conducted

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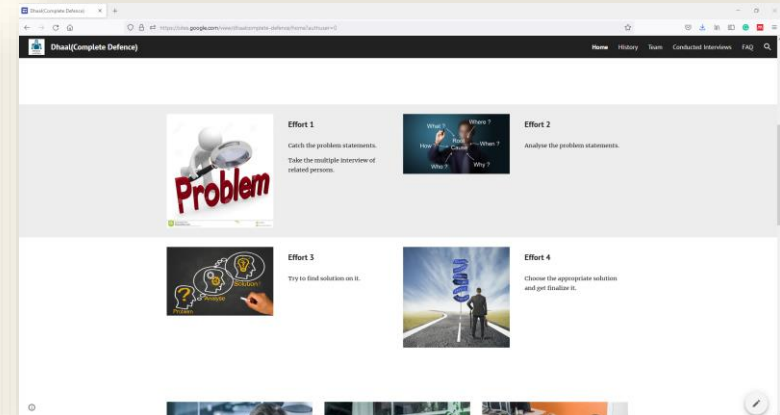
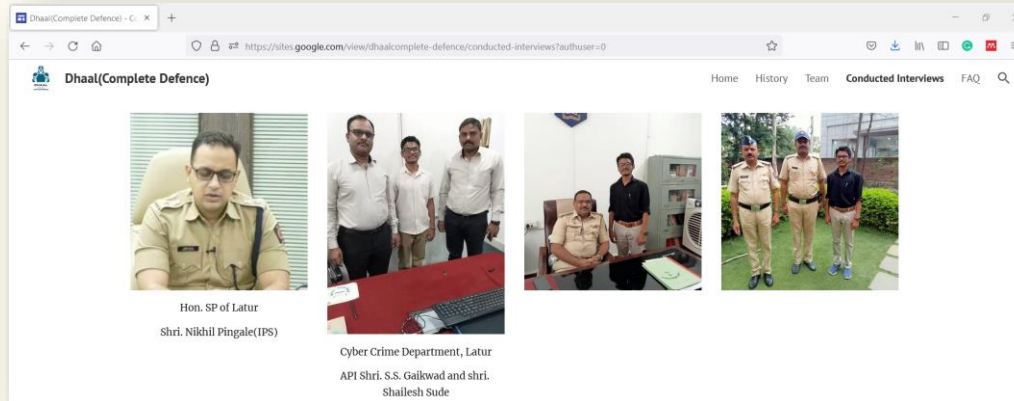
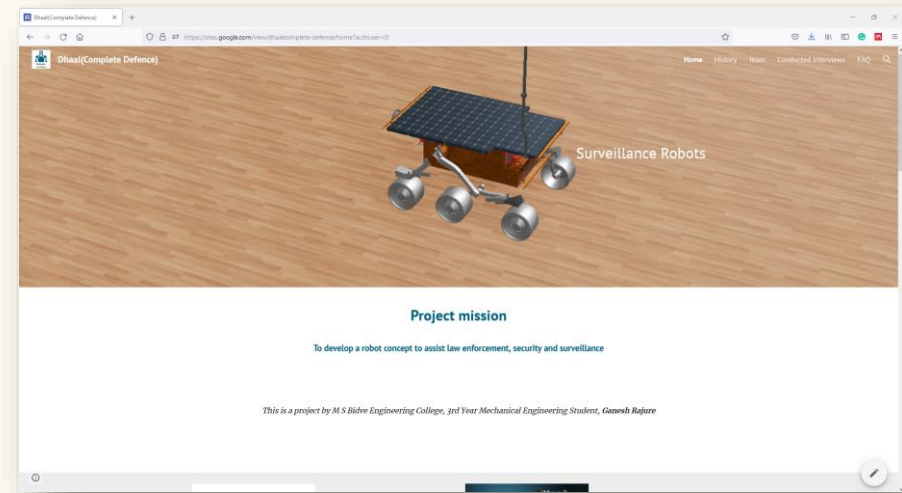
# Procedure

1. I had started reaching out to the people related to the police department and security functioning.
2. I took the appointments through mails and the contacts.
3. Prepared Questions which was suggested by my mentor.
4. Finally took the Inetrview for the problem definition.



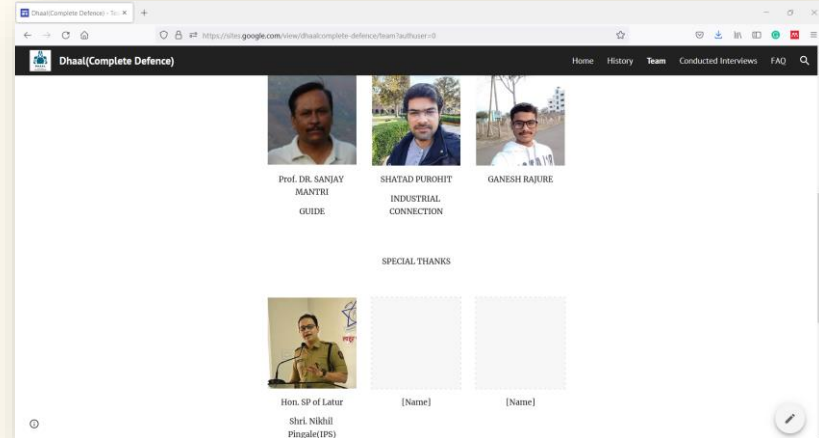
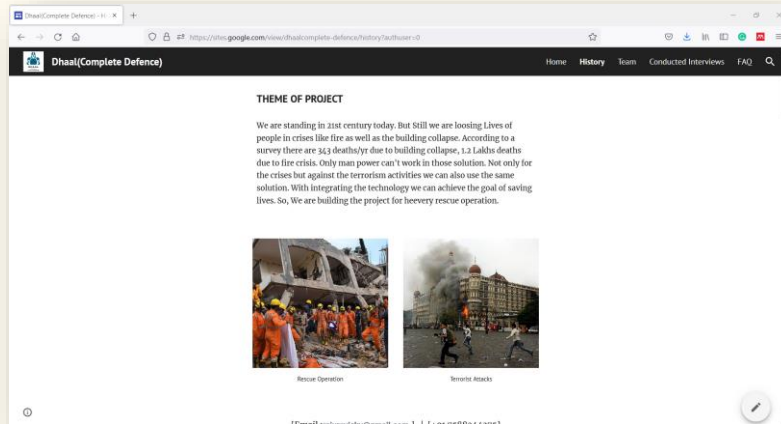
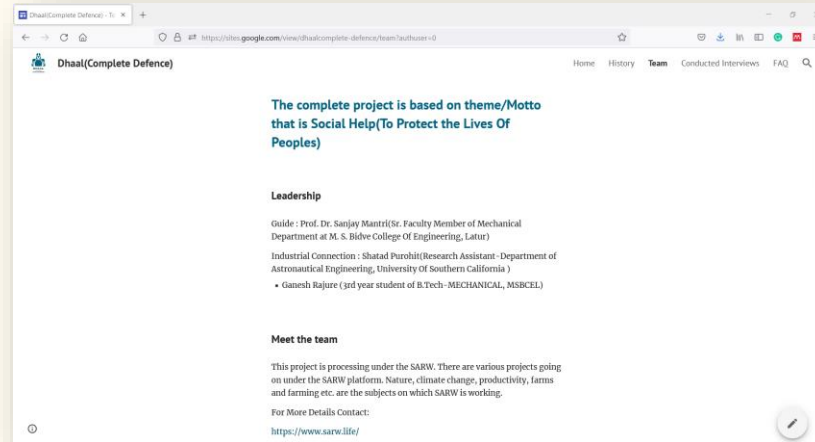
# Created Website

- To document all of the efforts
- Learnt website creation
- Published Content



# Created Website

- Website helped in communicating my efforts and getting interviews





# Studied Existing Surveillance Robots

- There are multiple types of robots used for surveillance
  - Ground Robots
  - Flying Robots (Drone)
  - Water Robots
- Many agencies across the world use it for surveillance to reduce workload on humans.



# Problem Analysis

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Tell the audience  
what you expect  
to happen...

# Problem Analysis

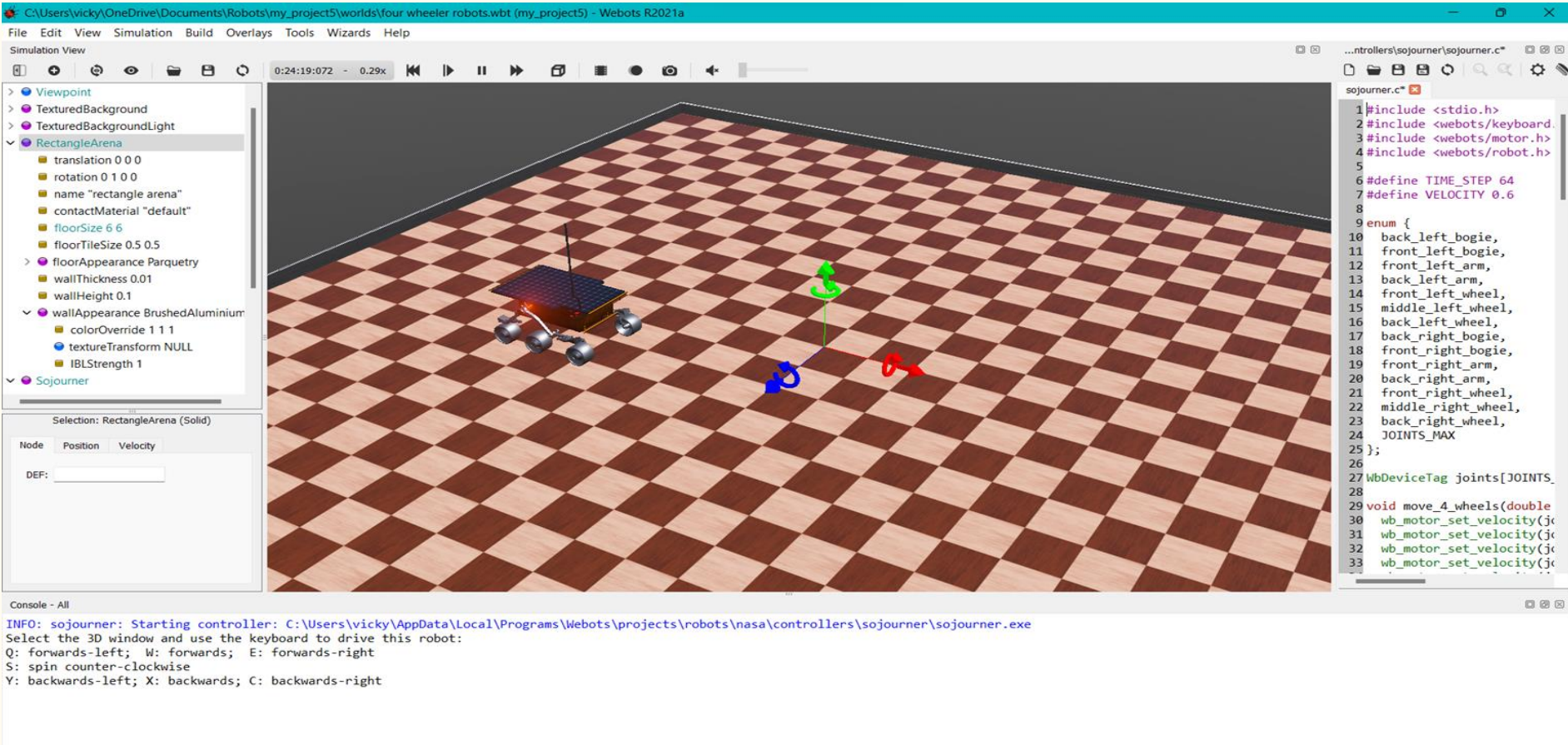
**I think this is needed because...**As we conducted this interviews they told us that there is deficiency of human power in the department. According to the law and order maintenance criteria they are facing huge load because of the various circumstances. I had conducted the interviews in the rural area. So, peoples are unaware about the technology. While petrolling activity as well as the various activities where the robots can be used for enhancing the activity

**Variables that may affect the outcome...**

- Unawareness of technology
- Cyber Security

# The Simulation For the Solution

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The project simulation

# Studying – How to Create Demo

- Searching for Hardware
- Electric Car
- Raspberry-Pi
- Pi Camera Sensor
- Collecting Funds = 6000 Rs



# Conclusion

Till date I had achieved my goal as the simulation only. I am trying my best to develop this model as the physical one. I am very thankful to my guide Prof. Dr. Sanjay Mantri Sir and Mr. Shatad Purohit (Research Assistant & Ph. D. Candidate, Department of Astronautical Engineering, USC). Special thanks to Hon. SP of Latur District IPS Shri Nikhil Pingale.