

AGRICULTURE FIELD MONITORING BY USING IOT



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REAL TIME PICTURE



ABSTRACT

Agriculture field monitoring by using IOT is mainly used to protect the crops from animals and birds . Due to this we can able to avoid the losses to the farmers in the production of crops. This project doesn't need any people in the fields for monitoring the crops by using sensors for identifying the motion surroundings of the field , based on the signal received from sensor the buzzer will act as a person and produce a sound to avoid the disturbances in the field. The camera module will always in working to observer uncaptured motions in the field which are not detected by the sensors in order to maintain successful results.

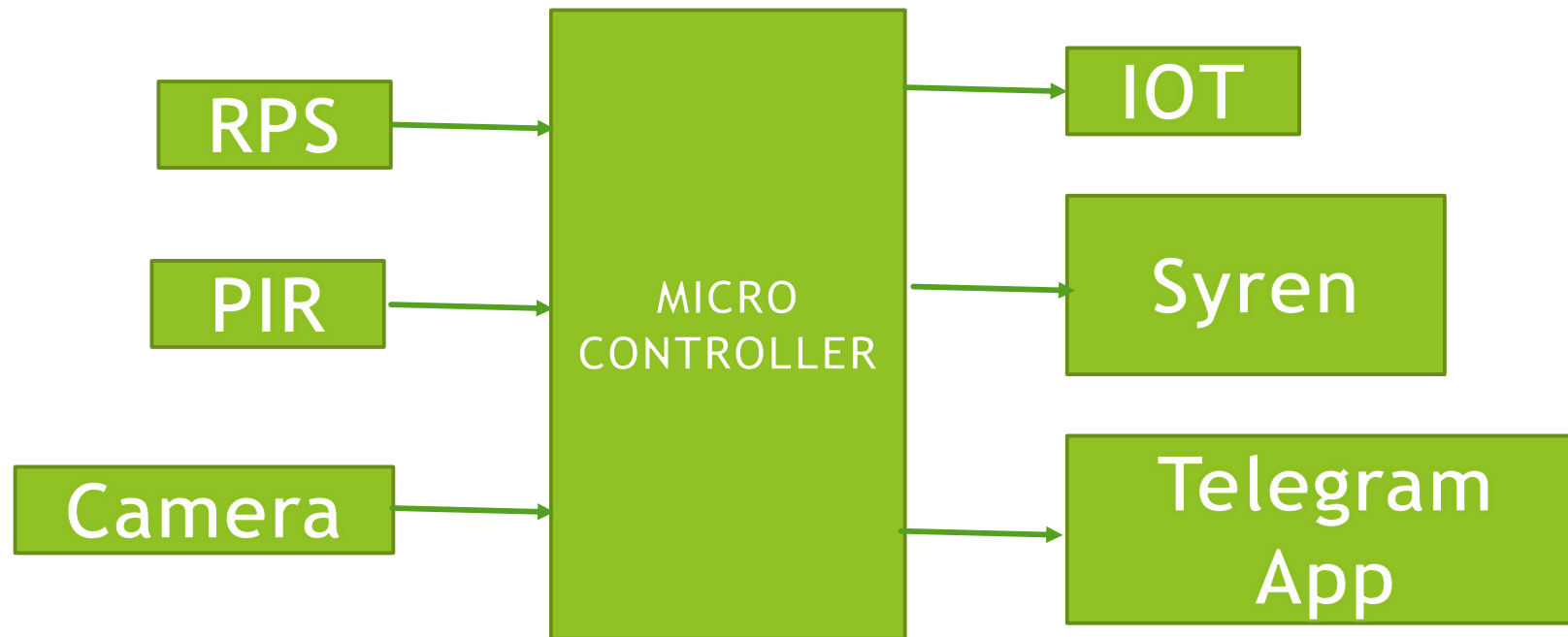
INTRODUCTION

Now a days technologies are growing up rapidly .In that IOT is one of them. Our project is based on IOT technology. The main aim of the project is to protect and monitor the agricultural field through Telegram app. The working principle of the project is when any wild animals are going to attack the field then the PIR sensor can sense the animal and capture the picture and send an notification to the corresponding user, then the user can take the against action by making the sound through siren, so that the objects can move far away.

LITERATURE SURVEY

- ▶ In earlier project, the projects can only protect the agriculture field , but now we can extending the project to protecting and monitoring the field.
- ▶ Existing projects are based on the technologies like TELNET,FIRE BASED etc.
- ▶ But now we are using the Telegram app through the mobile phone because now a days mobile is playing a vital role in every life.

BLOCK DIAGRAM



HARDWARE TOOLS

- ▶ RPS
- ▶ PIR(motion sensor)
- ▶ Camera
- ▶ IOT
- ▶ Syren
- ▶ Telegram app
- ▶ Microcontroller Node MCU

SOFTWARE TOOLS

- ▶ Arduino IDE
- ▶ Thing speak
- ▶ Proteus(for designing the circuit)

ADVANTAGES

- ▶ Increases the efficiency
- ▶ Enhances the growth of the field
- ▶ Cost efficiency
- ▶ Reduces the labour.
- ▶ Access from anywhere

APPLICATIONS

- ▶ Agricultural fields
- ▶ Theft detection
- ▶ Home





THANK
YOU