

**TRIBHUVAN UNIVERSITY**

**INSTITUTE OF ENGINEERING**

**THAPATHALI CAMPUS**

**A Proposal On**

**Artificially Intelligent Humanoid Robot**

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A PROPOSAL

SUBMITTED TO FREE STUDENTS UNION ,THAPATHALI CAMPUS FOR PROVISION OF FUND FOR ABOVE MENTIONED PROJECT

FREE STUDENTS UNION

THAPATHALI CAMPUS

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# ABSTRACT

Nowadays, implementation of IoT (Internet of Things) has changed the way of life of people. Connecting smart devices through internet has developed lots of possibility in technological development. With IoT ecosystem development connecting technologies and physical components introduces challenges to secure IoT. The current IoT ecosystem relies on centralized model where data from all smart devices are connected to this ecosystem are collected in a certain cloud server. With increasing size of IoT network, the centralized system may not be able to respond to growing needs of IoT. Security of data collected from devices connected can be a bigger issue in this system. We have to give our trust to a certain company for security of all data. This is where decentralized system can be introduced.

Blockchain is basically a digital distributed ledger which is public but is cryptographically secured. It allows for secure data transfer as well as storing of data. Blockchain creates trust through cryptographic operation by, allowing parties to securely exchange data without the use of intermediary. The main goal of this project is to implement Blockchain in IoT for security of data with the help of Immutable, decentralized and transparent yet secure properties of Blockchain.

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# LIST OF ABBREVATIONS

|  |  |
| --- | --- |
| AC | Alternating Current |
| ADC | Analog to Digital Converter |
| API | Application Programming Interface |
| BCM | Broadcom |
| CMOS | Complementary Metallic Oxide Semiconductor |
| CMS | Center Monitoring System |
| CSS | Cascading Style Sheets |
| DHCP | Dynamic Host Control Protocol |
| et al. | And Others |
| FTP | File Transfer Protocol |
| FTPS | File Transfer Protocol Secure |
| GIS | Geographic Information System |
| GPIO | General Purpose Input Output |
| GPRS | General Packet Radio Service |
| GPS | Global Positioning System |
| GPU | Graphics Processor Unit |
| GUI | Graphical User Interface |
| HDMI | High Definition Media Interface |
| HTTP | Hypertext Transfer Protocol |
| HTML | Hypertext Markup Language |
| IDLE | Integrated Development Environment |
| IP | Internet Protocol |
| IOT | Internet Of Things |
| ISP | Internet Service Provider |
| ISR | Interrupt Service Routine |
| IT | Information Technology |

# INTRODUCTION

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## Background Introduction

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## Objectives

* Objective here.
* Objective here.

## Scope of Project

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# LITERATURE REVIEW

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## Sub-heading 1

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## Sub-heading 2

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# METHODOLOGY

## System Block Diagram

Figure 3‑1 system block diagram

## Description of Working Principle

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## Instrumentation

### Hardware Requirements

1. Hardware requirement
2. Hardware requirement
3. Hardware requirement

### Software Requirements

1. Software requirements
2. Software requirements
3. Software requirements

# EXPECTED OUTCOME

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# PROJECT APPLICATION

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# PROJECT SCHEDULE

Figure 6‑2 Gantt chart

# COST ESTIMATION

# REFERENCE