

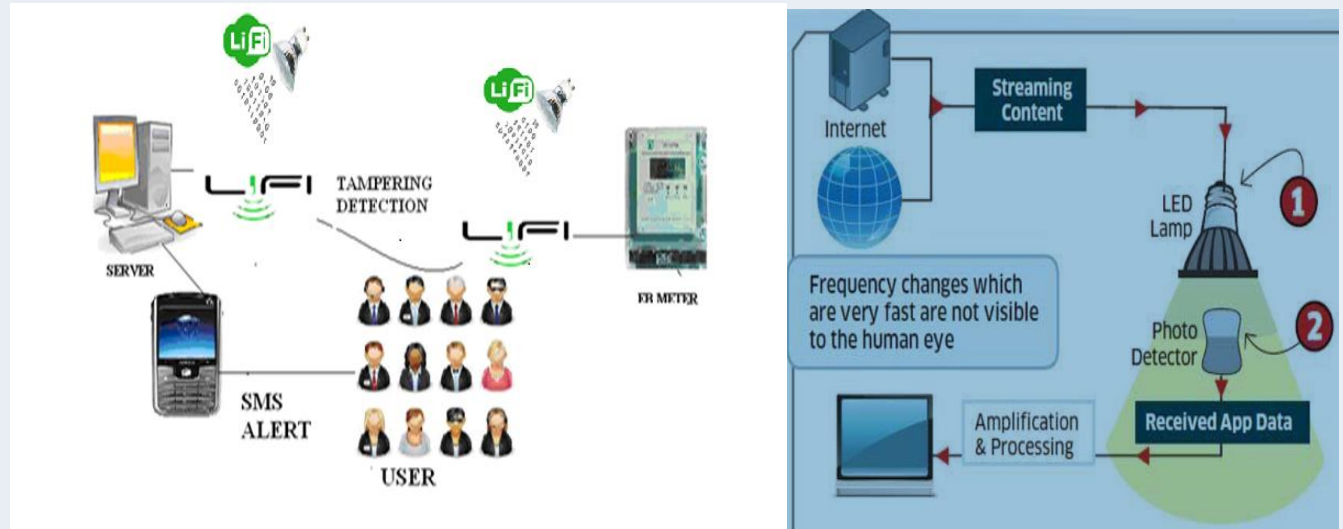
Department of Computer Science and Engineering

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|------------------------|---|
| PROJECT TITLE | INTEGRATION OF REMOTE ELECTRICITY BOARD MONITORING, TAMPERING WITH ANDROID BASED AUTO PAYMENT SYSTEM |
| STUDENT NAMES | M.SARANYA S.VIDYA |
| SUPERVISOR | Dr.R.SUGUNA,PROFESSOR |
| OBJECTIVE | The main objective of this project is to be designed and simulated to overcome problems in accuracy of meter reading information. The GSM network is used to detect the EB meter reading and automatic SMS alert is send to the customer by using Lifi technology |
| ABSTRACT/IDEA | <p>EB Person has to come home and take the Meter Readings manually. As advancement, GSM network can be used to detect the EB Meter Readings and Automatic SMS Alert can be sent to the customer. In this project, Lifi Technology is used instead of GSM as it is cheaper and it has high accessibility power. One Lifi is connected to the EB Server and another is connected to the Home EB Meter.</p> <p>EB Meter Readings are obtained using Lifi Network as well as we are detecting Neutral Tampering also. Android based Payment System and Meter Utility Checking are also implemented in this Project.</p> |
| TECHNOLOGY USED | <ol style="list-style-type: none"> 1. LIFI Technology 2. Embedded Technology 3. PIC Micro Controller Technology |
| WORKING STEPS | <ol style="list-style-type: none"> 1. User Registration 2. Web Server 3. Wireless Communication 4. SMS Alert 5. Auto Payment System 6. Detection Of Tampering |

REQUIREMENTS

1. Embedded Hardware
2. EB Meter
3. Raspberry PI / PIC Micro Controller
4. LiFi / Zigbee Communication

SYSTEM ARCHITECTURE



BENIFITS

1. No manual Process of Taking Reading in House physically is required.
2. Automatic Tampering Detection is achieved
3. It takes very less time for downloading movies, games, music
4. Li-Fi removes the limitations that have been put on the user by the Wi-Fi
5. Using this application easily calculate the EB Reading and Amount to be paid and updates to the User via SMS Alert.

SCREEN SHOTS

EBMeter

Enter User Name

Admin

Enter Password

.....

Enter IP Address

117.246.112.174

Submit



EBMeter

EB Meter No

12345

Enter Amount

10

Enter Credit Card No

123456789

Enter Pin No

.....

Submit

