



Sri Krishna College of Engineering and Technology
(An Autonomous Institution)
Department of Computer Science and Engineering

PROJECT DIARY

2017-2018

PHASE-I & II

B.E COMPUTER SCIENCE AND ENGINEERING
(2014-2018)

Batch Number :		
S.No	Register No.	Name of the Student
1	141031023	Avinash A.M
2	141031042	Gokul Narayan M
3	101031050	Jothi Arul Prakash P
Name of the Guide		Dr.D.Prabha

Project Team Members and Guide details

Project Team Members Details:

S.No	Roll No.	Register No.	Name of the Student	Mobile Number
1.	14BC020	141031023	Avinash A.M	9442766669
2.	14BC038	141031042	Gokul Narayan M	9566447245
3.	14BC048	141031050	Jothi Arul Prakash P	9095026828

Project Guide Details:

Name of the Guide	Designation	Mobile Number
Dr.D.Prabha	Professor	7402601458

Project Coordinator Details:

Name of the Overall Project Coordinator	Designation	Mobile Number
Dr.D.Surendran	Professor	7402601456

Class Advisor Details:

Name of the Project Coordinator	Designation	Mobile Number
Mrs.V. Priyadharsini	Asst. Professor	8610754399

Project Details

Project Title	Implementation of Secure Cloud-based Data Sensing model for Electric Meter
Abstract	<p>Electricity has now become a part of our daily life and one can't think of a world without it. The energy bills are growing high, and lowering them doesn't require spending money on green power gadgets or sacrificing your sanity. With a few simple tricks and minor adjustments to the way you operate your appliances, one can drive the energy costs down. This project would help in achieving this by letting the users know how much power they are consuming and how to conserve with a few changes. We propose a cloud-based data storage and processing model with the ability to preserve user privacy and confidentiality of electric meter data. This goal is achieved by encrypting electric meter data before storage on the cloud using a homomorphic asymmetric key cryptosystem. By applying the homomorphic feature of the cryptographic technique, we propose methods to allow most of the computing works of calculating customer's preset value based on total electricity consumption to be done directly on encrypted data by the cloud. One of the outstanding features in this model is the aggregation of encrypted electric meter readings using fixed-point number arithmetic. The read data has to be checked with the preset data which is defined by user via android app and get notified to user as the limit is attained.</p> <p>This helps the owners of property, having multiple houses / offices in different locations to monitor each tenant's consumption of electricity in different locations via the app. Hence separate tokens are assigned to each meter in a specific house/ office and these tokens are maintained under single identity of the owner. Such continuous and remote monitoring would pave the way for proper usage of electricity and avoid wastage caused by unnecessary use. The bigger gain would be the conservation of energy and deployment of scarce resources for optimal utilization.</p>
Project Domain	IoT & CLOUD COMPUTING TOOL : ARDUINO & ANDROID STUDIO LANGUAGE : JAVA
Base paper Details	Future Generation Computer Systems 72(2017) 327-328 (ELSEVIER)

Guide

Project Coordinator(IV CSE A)

Project Coordinator(Over All)

Project Phase – I

Project Phase – I Review Details			
S.No.	Date	Review Details	Remarks

Project Phase – I Assessment Sheet				
Register No.				
Name				
Review Marks				
Review (25)				
Review (25)				
Review (25)				
Review (25)				
Review Mark Average (20)				
Implementation and Documentation (10)				
Project Guide (10)				
Total (40)				

Guide

Project Coordinator
(IV CSE-A)

Project Coordinator
(Over All)

HOD-CSE

Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

Signature of the Guide

Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

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Topic Discussed :

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Project work Status :

Remarks :

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Project Discussion Report

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Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

Signature of the Guide

Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

Signature of the Guide

Symposium/Workshops/ Conferences Attended Details:[illegible]

Project Phase – II

Project Phase – II Review Details			
S.No.	Date	Review Details	Remarks

Project Phase – II Assessment Sheet				
Register No.				
Name				
Review Marks				
Review (25)				
Review (25)				
Review (25)				
Review (25)				
Review (25)				
Review Mark Average (20)				
Implementation and Documentation (10)				
Project Guide (10)				
Total (40)				

Guide

Project Coordinator

Project Coordinator

HOD-CSE

Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

Signature of the Guide

Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students

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Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

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Project work Status :

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Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

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Project work Status :

Remarks :

Members Present :

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Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

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Project Discussion Report

Date :

Topic Discussed :

Work Assigned :

Project work Status :

Remarks :

Members Present :

Signature of the Students
GuideSymposium/Workshops/ Conferences Attended Details:

Signature of the

[illegible]