SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

AMARAVATHIPUDUR, KARAIKUDI- 630 301

DEPARTMENT OF ECE

Sub code & Name:EC8811 & Project Work

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BATCH : 2018-2022

S.NO	BATCH NO	REGISTER NUMBER	STUDENT NAME	GUIDE NAME	TITLE OF THE PROJECT
1	Batch 1	912518106002	S.DIVYA	C.DHAVAPERUMAL	WEB APPLICATION OF STUDENT INFORMATION AND MANAGEMENT SYSTEM
2		912518106005	I.KARPAGA THENDRAL		
		912518106007	A.KARUPPAYE		
3		912518106009	K.LINGARAJAN		
4	Batch 2	912518106003	K.KAKKAN	V.GOWSALYA	DEVELOPING WEB APPLICATION OF STUDENT ATTENDANCE AND FINANCE MANAGEMENT SYSTEM
		912518106014	G.RAMBA		
5		912518106015	N.SATHYA PRIYA		
6		912518106018	C.VIDHYA		
7	Batch 3	912518106001	R.AJAY	S.VENGATESAN	ELECTRICITY BILLING STATUS AND THEFT WITH IDENTIFICATION USING IOT
8		912518106004	N.KALEESWARAN		
9		912518106013	R.PRAVEEN KUMAR		
10	Batch 4	912518106010	C.MANIMEGALAI	K.ISABELLA RANI	FACE RECOGINITION CLOUD BASE ATTENDANCE SYSTEM
11		912518106011	A.MANJAVI SREE		
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WEB APPLICATION OF STUDENT INFORMATION AND MANEGMENT SYSTEM

A PROJECT REPORT

Submitted by

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K.LINGA RAJAN	(912518106009)

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

In

ELECTRONICS AND COMMUNICATION ENGINEERING

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY:CHENNAI 600 025

JUNE - 2022

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Certified that this project "**WEB APPLICATION OF STUDENT INFORAMTION AND MANEGMENT SYSTEM** " is the bonafied work of "**S.DHIVYA (912518106002), I.KARPAGA THENDRAL (912518106005), A.KARUPPAYE (912518106007), K.LINGA RAJAN (912518106009)**" who carried out the project work under my Supervision.

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INTERNAL EXAMNINER

22/6/2022

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ACKNOWLEDGEMENT

I take this opportunity to record my sincere thanks to all who enlightened my path towards the successful completion of this project .At the very outset, I thank the almighty for his abundant showered on me. It is my greatest to convey my sincere thanks to **Dr. AL.MAYILVAHANAN /M.E.,ph.d.,** Vice principal **Mr.V.MAHALINGASURESH, M.SC.,M.ph.l,B.ed.,** Principal of Sri Raaja Raajan College of engineering and Technology for having provided me with facilities to complete my project without hurdles.

I express my profound gratitude thanks **to MRS.K.ISABELLA RANI M.E.,** for providing sample facilities to complete my project successfully.

I thank my guide **MR.C.DHAVAPERUMAL M.E.,** for his excellence guidance and patient supervision throughout my project work.

I am also bound to thank the other staff members of the Department of Electronics and Communication Engineering, whose support and cooperation also contributed much to complete this project this project work.

My sincere thanks to one and all who contributed towards my Project work completion

ABSTRACT

In this notartical we will discuss students Management System software which is used in coaching classes for maintaining students details. Our main focus in this student software to keep students records and maintenance students fees details. In this student management software only owner or administrator can operate the system. This student management software help us to find students fees States paid or remained.

Student Information Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

CHAPTER	TABLE OF CONTENT	PAGE NO

LIST OF FIGURE

DEVELOPING WEB APPLICATION OF STUDENT ATTENDANCE AND FINANCE MANEGMENT SYSTEM

A PROJECT REPORT

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CHAPTER TABLE OF CONTENT PAGE NO

ELECTRICITY BILLING STATUS AND THEFT IDENTIFICATION USING IOT

Submitted by

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N.KALEESHWARAN **(912518106004)**

R.PRAVEEN KUMAR **(912518106013)**

A Report for the project
Submitted to the faculty
of

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INTERNAL EXAMINER

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EXTERNAL EXAMINER

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First of all we thank God almighty for his wisdom and his substantial Blessing by which I have been able to complete our project successful.

We thank our principal **Dr.AL.MAYIL VAHANAN, ME., Ph.D.,** and Vice Principal **Mr.V.MAHALINGA SURESH, M.Sc., M.Phil.,B.Ed** for permitting us to undertake this project.

No word of gratitude will be sufficient to pay our heartfull thanks to **Mrs.K.ISABELLA RANI ME.,** Head of Electronics and Commnication Departmaent valuable suggestion an kind co-operation, and we would also like to extend our thanks to the other staff of ECE Department.

Our sincerely thank to our guide **Mr.VENGATESAN ME.,** Electronics and communication Engineering Department for having confidence and she moral supported to us in all stages to complete our project.

We are grateful to express our guided to parents and friends for their prayers,Co-Operation and efforts in encouraging us, and boosted us to finish our project sufficiently and successfully.

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ABSTRACT

This study has specifically focused to develop a IOT Based Prepaid Smart Metering System which would be able to address some of the challenges currently available in the regular digital automated metering system in TamilNadu.digital Metering with its unique performance with the Internet of Things (IoT) tend to be an efficient system for electricity management, se- cure against the intervention by third parties, and reliable for tracking and real-time remote monitoring .if load current not apply also digital meter.Consume the electricity it will indicate error message .power consume charge will be update daily .Hence, this project work is accomplished by analyzing available functions and journals on the existing design of Smart Metering and discussed on further preferable application. In the currently working system, electricity meter reading for electricity usage and billing is done by human workers from home to home and building to buildings. The purpose of this project is to develop a Smart Electricity meter using node Mcu. This can reduce human errors and helps to retrieve the real time meter value via Node Mcu and send it to customers mobile phone through Node Mcu. This also allows electricity board to modify the variable package price in specific duration. The administrator can analyze the customers power consumption data and generate the report from the data online. The prototype will be able to introduce the billing system to the customers, get the power consumption data from smart meter, keep the data in centralized database and generate the report. Finally the current will converts in rupee also show the per day unit rate .

FACE RECOGNITION CLOUD BASE ATTENDANCE SYSTEM

A PROJECT REPORT

Submitted by

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JUNE-2022

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FACE RECOGNITION CLOUD BASE ATTENDANCE SYSTEM

ABSTRACT

Face is the representation of one's identity. Hence, we have proposed an automated student attendance system based on face recognition. Face recognition system is very useful in life applications especially in security control systems. The airport protection system uses face recognition to identify suspects and FBI (Federal Bureau of Investigation) uses face recognition for criminal investigations. In our proposed approach, firstly, video framing is performed by activating the camera through a user friendly interface. The face ROI is detected and segmented from the video frame by using Viola-Jones algorithm. In the pre-processing stage, scaling of the size of images is performed if necessary in order to prevent loss of information. The median filtering is applied to remove noise followed by conversion of colour images to grayscale images. After that, contrast-limited adaptive histogram equalization (CLAHE) is implemented on images to enhance the contrast of images. In face recognition stage, enhanced local binary pattern (LBP) and principal component analysis (PCA) is applied correspondingly in order to extract the features from facial images. In our proposed approach, the enhanced local binary pattern outperform the original LBP by reducing the illumination effect and increasing the recognition rate. Next, the features extracted from the test images are compared with the features extracted from the training images. The facial images are then classified and recognized based on the best result obtained from the combination of algorithm enhanced LBP and PCA. Finally, the attendance of the recognized student will be marked and saved in the excel file. The student who is not registered will also be able to register on the spot and notification will be given if students sign in more than once. The average accuracy of recognition is 100 % for good quality images, 94.12 % of low-quality images and
95.76 % for Yale face database when two images per person are trained.