



Annai College of Arts & Science

Quality Education for Today & Tomorrow

Kovilacheri, Kumbakonam. 612 503. Ph: 0435 2453007

Accredited by NAAC with 'B' Grade & Recognized by UGC under Section 2(f) & 12(B)

Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail acsdmn@gmail.com

**DEPARTMENT OF
INFORMATION
TECHNOLOGY
PROJECT FILE
BATCH
2016 – 2019**



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**DEPARTMENT OF
INFORMATION
TECHNOLOGY
PROJECT FILE
BATCH
2016 – 2019**


HOD


IQAC


PRINCIPAL



Annal College of Arts & Science
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Kovilacheri, Kumbakonam. 612 503 Ph: 0435 2453007
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Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: aacadmin@gmail.com

DEPARTMENT OF INFORMATION TECHNOLOGY

DATE: 24.12.2018

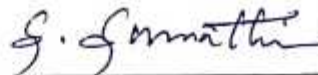
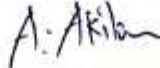
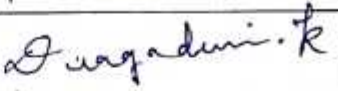
MINUTES OF MEETING FOR PROJECT WORK

The Department meeting was held in the HOD Cabin dated on 24th December 2018 at 1.00 p.m

AGENDA

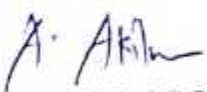
- Project discussion
- Guide list
- Guidelines regarding Project work
- Review dates

FACULTY PRESENCE

S.NO	FACULTY NAME	SIGNATURE
1	Prof.S.SUMATHI M.Sc.,M.Phil.,B.Ed.,	
2	Prof.A.AKILAN M.Sc.,M.Phil.,	
3	Prof.R.DURGA DEVI M.Sc.,M.Phil.,	

RESOLUTION

- Resolved to give detail information about the project to the students
- Resolved by allocating list of faculty with the ward effective project guidelines.
- Resolved by giving proper guidelines with our interested topics to execute the project.
- Resolved to follow up the review dates as per the schedule dates.


PROJECT COORDINATOR


HOD



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Affiliated to Dharmapalan University, Tiruchirappalli. E-Mail: acaad@annal.ac.in

Department of Information Technology
Project Review with Mark Allocation Details
Batch-2016 - 2019

CLASS:III B.Sc.,(IT)

INTERNAL MARK:40

MONTH	DATE	REVIEW	DETAILS	MARKS ALLOCATION
JAN	22.01.2019	Zeroth Review	Project Title Discussion	5
FEB	08.02.2019	First Review	Project Title Conformation&Abstract	5
FEB	28.02.2019	Second Review	Project Module Complete Status	10
MAR	04.03.2019	Third Review	Project Module Complete Status	10
MAR	29.03.2019	Fourth Review	Project Submission	10

A. Akil
PROJECT COORDINATOR

S. Ganathan
HOD



Department of Information Technology
 Project Review Details
 Batch-2016-2019

Attendance for Project/III B.Sc., Information Technology

No.	Name	Reg.No.	22.01.2019	08.02.2019	28.02.2021	01.03.2019	29.03.2019
1	ABDUL MAJEED A	CB16S 302336	X	X	X	X	X
2	AISHWARYA P	CB16S 302337	X	X	X	X	X
3	AJITH KUMAR R	CB16S 302338	X	X	X	X	X
4	ANIHA K	CB16S 302339	X	X	X	X	X
5	ARAVINTH A	CB16S 302340	X	X	X	X	X
6	ASHWINKUMAR S	CB16S 302342	X	X	X	X	X
7	BARANI KUMAR S	CB16S 302344	X	a	X	a	X
8	BHARATHI A	CB16S 302345	X	X	X	X	X
9	DEEPANRAJ T	CB16S 302346	X	X	X	X	X
10	ELANTAMILAN S	CB16S 302348	X	X	X	X	X
11	ELAVARASLR	CB16S 302349	X	X	X	X	X
12	FHARIS AHAMED. MJ	CB16S 302350	X	X	X	X	X
13	GUNA R	CB16S 302351	X	X	X	X	X
14	HARI G	CB16S 302352	X	X	X	X	X
15	HARIHARAN L	CB16S 302353	X	X	a	X	X
16	JEAMEEMA H	CB16S 302354	X	X	X	X	X
17	MATHAN M	CB16S 302355	X	X	X	X	X
18	MAZUNA PARVIN S	CB16S 302356	X	X	X	X	X
19	MOHAMED ASIK A	CB16S 302357	X	X	X	X	X
20	MOHAMED IMRAN M	CB16S 302360	X	X	X	X	X
1	MOHAMED IRSATH M	CB16S 302361	X	X	X	X	X
2	MOHAMED ISMATHULLAH H	CB16S 302362	X	X	X	X	X
3	MOHAMMED FAZITH M	CB16S 302364	X	X	a	X	X
4	MOHAMMED RIYAS A	CB16S 302365	a	X	X	X	X
5	NANDHAKUMAR N	CB16S 302366	X	X	X	X	X
6	NOOR MOHAMED H	CB16S 302367	X	X	X	X	X
7	NOORUL FARJUNA H	CB16S 302368	X	a	X	X	X
8	RAJALINGAM T	CB16S 302369	X	X	X	X	X
9	RAJKUMAR R	CB16S 302370	X	X	a	X	X
0	RANJITH N	CB16S 302371	X	X	X	X	X
1	SATHAM HUSSAIN A	CB16S 302373	X	X	X	X	X
2	SHAJITHA BANU S	CB16S 302374	X	X	X	X	X
3	SUBASRI R	CB16S 302375	X	X	X	X	X
4	SURESH E	CB16S 302376	X	X	X	X	X
5	SURYA K	CB16S 302378	X	X	X	X	X
6	THANGAVELMURUGAN R	CB16S 302379	X	X	a	X	X
7	THASLIMA BANU A	CB16S 302380	X	X	X	X	X

38	VIGNESH. B	CB16S 302381	a	X	X	X	X
39	VIGNESH. R	CB16S 302382	X	a	X	X	X
40	VIJAY. M	CB16S 302383	X	X	X	X	X
41	VINOTHA. S	CB16S 302384	X	X	X	X	X
42	BARANIKA..G	CB16S 301826	X	X	X	X	X
No of Students Present			40	39	38	41	42
No of Students Absent			02	03	04	01	ML
Faculty Signature			A	B	A	A	A

A. Akil
PROJECT COORDINATOR

S. Sumathi
HOD



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Affiliated to Bharathidasan University, Trichyappan. E-Mail: acaedfnn@gmail.com

Department of Information Technology
Batch-2016-2019
Guide List

S.No	Guide Name	No of Students
1	Prof S SUMATHI M.Sc.,M.Phil.,B.Ed.,	15
2	Prof.A.AKILAN M.Sc.,M.Phil.,	15
3	Prof.R.DURGA DEVI M.Sc.,M.Phil.,	12

A. Akilan
PROJECT COORDINATOR

S. Sumathi
HOD



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 Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: acadmn@emai.com

Department of Information Technology
 Confirmation of Project Titles
 Batch-2016-2019

S.No.	Name	Reg.No.	Title	Guide
1	ABDUL MAJEED. A	CB16S 302336	LL BREATHING TECHNIQUES FOR LOAD BALANCING IN WIRELESS LANS	Prof.S.SUMATHI M.Sc.,M.Phil.,B.Ed.,
2	AISHWARYA.P	CB16S 302337	LL BREATHING TECHNIQUES FOR LOAD BALANCING IN WIRELESS LANS	
3	AJITH KUMAR. R	CB16S 302338	LL BREATHING TECHNIQUES FOR LOAD BALANCING IN WIRELESS LANS	
4	ANITHA. K	CB16S 302339	ADVERTISEMENT MANAGEMENT SYSTEM	
5	ARAVINTH .A	CB16S 302340	ADVERTISEMENT MANAGEMENT SYSTEM	
6	ASHWINKUMAR. S	CB16S 302342	ADVERTISEMENT MANAGEMENT SYSTEM	
7	BARANI KUMAR. S	CB16S 302344	COURIER MANAGEMENT SYSTEM	
8	BHARATHI. A	CB16S 302345	COURIER MANAGEMENT SYSTEM	
9	DEEPANRAJ. T	CB16S 302346	COURIER MANAGEMENT SYSTEM	
10	ELANTAMILAN. S	CB16S 302348	NETWORK CAPACITY ADAPTATION IN SERVICE OVERLAY NETWORK	
11	ELAVARASIR	CB16S 302349	NETWORK CAPACITY ADAPTATION IN SERVICE OVERLAY NETWORK	
12	FHARIS AHAMED. MJ	CB16S 302350	NETWORK CAPACITY ADAPTATION IN SERVICE OVERLAY NETWORK	
13	GUNA. R	CB16S 302351	COLLEGE INFORMATION SYSTEM	
14	HARI.G	CB16S 302352	COLLEGE INFORMATION SYSTEM	
15	HARIHARAN.L	CB16S 302353	COLLEGE INFORMATION SYSTEM	
16	JEAMEEMA. H	CB16S 302354	CARGO TRACKING SYSTEM	
17	MATHAN. M	CB16S 302355	CARGO TRACKING SYSTEM	
18	MAZUNA PARVIN.S	CB16S 302356	CARGO TRACKING SYSTEM	
19	MOHAMED ASIK. A	CB16S 302357	CYBER VOTING SYSTEM	
20	MOHAMED IMRAN. M	CB16S 302360	CYBER VOTING SYSTEM	
21	MOHAMED IRSATH .M	CB16S 302361	CYBER VOTING SYSTEM	
22	MOHAMED ISMATHULLAH .H	CB16S 302362	DATABASE MIGRATION	
23	MOHAMMED FAZITH.M	CB16S 302364	DATABASE MIGRATION	
24	MOHAMMED RIYAS. A	CB16S 302365	DATABASE MIGRATION	

Prof.A.AKILAN M.Sc.,M.Phil.,

25	NANDHAKUMAR, N	CB16S 302366	IMPLICIT PANEL SHARING
26	NOOR MOHAMMED, H	CB16S 302367	IMPLICIT PANEL SHARING
27	NOORUL FARJUNA, H	CB16S 302368	IMPLICIT PANEL SHARING
28	RAJALINGAM, T	CB16S 302369	MEDICAL CARE SYSTEM
29	RAJKUMAR, R	CB16S 302370	MEDICAL CARE SYSTEM
30	RANJITH, N	CB16S 302371	MEDICAL CARE SYSTEM
31	SATHIAM HUSSAIN, A	CB16S 302373	ONLINE CENSUS MANAGEMENT
32	SHAJITHA BANU, S	CB16S 302374	ONLINE CENSUS MANAGEMENT
33	SUBASRI, R	CB16S 302375	ONLINE CENSUS MANAGEMENT
34	SURESH, E	CB16S 302376	WEB BASED REWARD MANAGEMENT SYSTEM
35	SURYA, K	CB16S 302378	WEB BASED REWARD MANAGEMENT SYSTEM
36	THANGAVELMURUGAN, R	CB16S 302379	WEB BASED REWARD MANAGEMENT SYSTEM
37	THASLIMA BANU, A	CB16S 302380	SPREAD SPECTRUM WATERMARKING SECURITY
38	VIGNESH, B	CB16S 302381	SPREAD SPECTRUM WATERMARKING SECURITY
39	VIGNESH, R	CB16S 302382	SPREAD SPECTRUM WATERMARKING SECURITY
40	VIJAY, M	CB16S 302383	PETRO CREDIT CARD SUPERVISION COORDINATION
41	VINOTHIA, S	CB16S 302384	PETRO CREDIT CARD SUPERVISION COORDINATION
42	BARANIKA, G	CB16S 301826	PETRO CREDIT CARD SUPERVISION COORDINATION

Prof.R.DURGHA DEVI M.Sc.,M.Phil.,

A. Akilan
PROJECT COORDINATOR

S. Samanthi
HOD



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Department of Information Technology

Bonafide Certificate

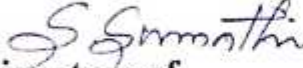
This is to certify that the Project entitled
**LL BREATHING TECHNIQUES FOR LOAD BALANCING IN
WIRELESS LANS**
Submitted in partial fulfillment of requirements for the award of the degree
of

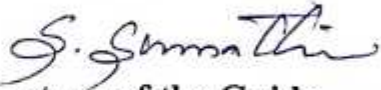
BACHELOR OF INFORMATION TECHNOLOGY

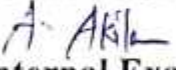
Is a bonafide record of the original work done by

NAME	REG.NO.
ABDUL MAJEED. A	CB16S 302336
AISHWARYA.P	CB16S 302337
AJITH KUMAR. R	CB16S 302338

Department of Information Technology
Annai College of Arts & Science
Kovilacheri - 612 503
April - 2019


Signature of
Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29.03.2019

Internal Examiner


External Examiner

Cell Breathing Techniques for Load Balancing in Wireless LANs

ABSTRACT

Network overload is one of the key challenges in wireless LANs (WLANs). This goal is typically achieved when the load of access points (APs) is balanced. Recent studies on operational WLANs, shown that AP load is often uneven distribution. To rectify such overload, several load balancing schemes have been proposed. These methods are commonly require proprietary software or hardware at the user side for controlling the user-AP association. In this paper we present a new load balancing method by controlling the size of WLAN cells (i.e., AP's coverage range), which is conceptually similar to cell breathing in cellular networks. This method does not require any modification to the users neither the IEEE 802.11 standard. It only requires the ability of dynamically changing the transmission power of the AP beacon messages. We develop a set of polynomial time algorithms that find the optimal beacon power settings which minimize the load of the most congested AP. We also consider the problem of network-wide min-max load balancing. Simulation results show that the performance of the proposed method is comparable with or superior to the best existing association-based method.



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Department of Information Technology

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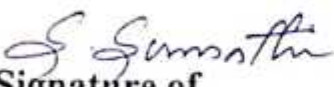
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ADVERTISEMENT MANAGEMENT SYSTEM
Submitted in partial fulfillment of requirements for the award of the degree
of

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ANITHA. K	CB16S 302339
ARAVINTH .A	CB16S 302340
ASHWINKUMAR. S	CB16S 302342

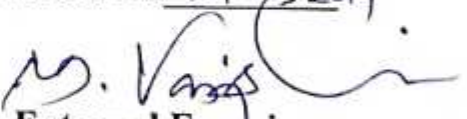
Department of Information Technology
Annai College of Arts & Science
Kovilacheri – 612 503
April - 2019


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Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29.03.2019

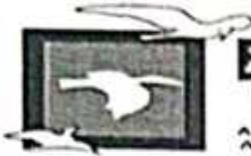

Internal Examiner


External Examiner

Advertisement Management System

ABSTRACT

Advertising Resources are current with advertising trends, Internet news, and technology. The Internet offers an increasing number of opportunities for small businesses to advertise their products and services. Internet advertisements can take many forms, from the now ubiquitous banner ads and pop-up ads, to search engine ads, e-mail ads, discussion forums, blogs, newsletters, and streaming audio and video. *Network advertisers* are companies that distribute online advertisements. You pay them to place your ads on other Web sites. Likewise, a network advertiser will pay you for allowing other companies to place their ads on your Web site. Some network advertisers specialize in placing banner ads, and other types of graphical, multimedia ads, on Web site pages. Others specialize in placing ads in e-mail newsletters.



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Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: aca@acsmi@gmail.com

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COURIER MANAGEMENT SYSTEM
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of


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NAME	REG.NO.
BARANI KUMAR. S	CB16S 302344
BHARATHI. A	CB16S 302345
DEEPANRAJ. T	CB16S 302346

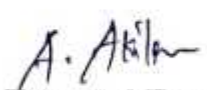
Department of Information Technology
Annai College of Arts & Science
Kovilacheri - 612 503

April - 2019


Signature of
Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29.03.2019


Internal Examiner


External Examiner

Courier Management System

ABSTRACT

The title of this project is "Courier Management". The basic idea behind this project is to computerize the Courier Management to run its day-to-day activities effectively and efficiently.

In Courier business, it is mainly to deal with delivering letters and parcels from one place to another place. A courier company with multiple offices, different branches in different cities are facing huge problems without computerization.

Main problem is consolidation of all transactions from various branches. Tracking and monitoring every item to be delivered is a tedious process. Reports are not readily available. Customer database, detailed information about location play vital role in this business.

Need to prioritize the deliveries based on severity and also different prizes are there for different type of parcels and letters and it is purely based on locations. To cater this problem and to manage courier business effectively and efficiently, it requires an intelligent tool. And this tool should also be capable of handling multiple locations.

After my thorough analysis, I developed a software using .net technologies to leverage web based applications to take advantages of internet, to effectively cater multiple locations, so that they operate their from any-where around the globe without thinking about networking.



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Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: accadm@annai.ac.in

Department of Information Technology

Bonafide Certificate

This is to certify that the Project entitled
**NETWORK CAPACITY ADAPTATION IN SERVICE OVERLAY
NETWORK**

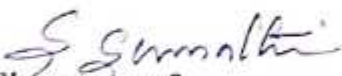
Submitted in partial fulfillment of requirements for the award of the degree
of

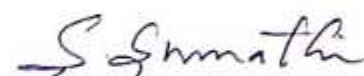
BACHELOR OF INFORMATION TECHNOLOGY

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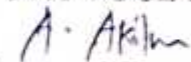
NAME	REG.NO.
ELANTAMILAN. S	CB16S 302348
ELAVARASIR	CB16S 302349
FHARIS AHAMED. M.J	CB16S 302350


Department of Information Technology
Annai College of Arts & Science
Kovilacheri - 612 503
April - 2019


Signature of
Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29-13/2019


Internal Examiner


External Examiner

✓

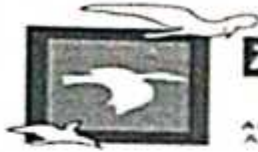
Network Capacity Adaptation In Service Overlay Network

ABSTRACT

The considered Service Overlay Networks (SON) lease bandwidth with Quality of Service (QoS) guarantees from a multitude of Internet Autonomous Systems, through service level agreements (SLA) with Internet Service Providers (ISP). This bandwidth is used to establish SON links and deliver end-to-end QoS for real time service connections. The leased bandwidth amount influences both the admitted traffic and network cost, affecting the network profit. This gives the network operator the opportunity to optimize the profit by adapting the restrictions of limiting the bandwidth of network resources by changing traffic and SLA costs conditions.

We propose a novel approach that maximizes the network profit based on traffic measurements and SLA cost changes. The approach uses a structured model that integrates the network routing policy with the adaptation of maximizing the SON link capacities. While performing the adaptation of leased bandwidth, the connection blocking constraints are also limited and maintained.

The proposed model is derived over by providing a voice and video conferencing service decreed over as a separate service over the SON network provided over with adaptive optimization approach on the basis of reward maximizing routing policy derived from the Markov Decision Process theory although it can be applied to other routing policies. It is been suggested that our model of routing policy is been injected over with the various nodes in the service overlay network. Outcasting the network traffic limitation in this upcoming technology



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Department of Information Technology

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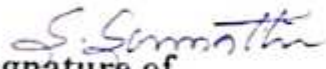
This is to certify that the Project entitled
COLLEGE INFORMATION SYSTEM
Submitted in partial fulfillment of requirements for the award of the degree
of

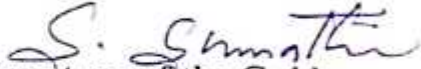
BACHELOR OF INFORMATION TECHNOLOGY

Is a bonafide record of the original work done by

NAME	REG.NO.
GUNA. R	CB16S 302351
HARI.G	CB16S 302352
HARIHARAN.L	CB16S 302353


Department of Information Technology
Anna College of Arts & Science
Kovilacheri - 612 503
April - 2019


Signature of
Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29.03.2019


Internal Examiner


External Examiner

College Information System

ABSTRACT

The Project is a collection of Web pages, images, videos and other digital assets that is hosted on one or several Web server, usually accessible via the Internet, cell phone or a LAN.

The pages of websites can usually be accessed from a common root URL called the homepage, and usually reside on the same physical server. The URLs of the pages organize them into a hierarchy, although the hyperlinks between them control how the reader perceives the overall structure and how the traffic flows between the different parts of the sites.

A website requires attractive design and proper arrangement of links and images, which enables a browser to easily interpret and access the properties of the site. Hence it provides the browser with adequate information and functionality about the organization, community, network etc.



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This is to certify that the Project entitled
CARGO TRACKING SYSTEM
Submitted in partial fulfillment of requirements for the award of the degree
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Is a bonafide record of the original work done by

NAME	REG.NO.
JEAMEEMA. H	CB16S 302354
MATHAN. M	CB16S 302355
MAZUNA PARVIN.S	CB16S 302356


Department of Information Technology
Anna College of Arts & Science
Kovilacheri – 612 503
April - 2019


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Head of the Department


Signature of the Guide

VIVA VOCE Examination for this Project Record Was held on 29.03.2019


Internal Examiner


External Examiner

Cargo Tracking System

ABSTRACT

The purpose of this software specification (SS) is to establish the major requirements & Specification necessary to develop the Software Systems for the Developers. The overall objective of the Team Project is to establish a web-based. The goal of this document is the same as any requirements document, to lay out all requirements of the application in order to have both the developers and the end users maintaining the same understanding and expectations from the application. The project requirements will define, in general terms, the setup of the web site, topics for available information concerning the Software Project Management.



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Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: acesadm@gmail.com

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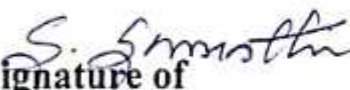
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CYBER VOTING SYSTEM
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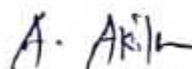
NAME	REG.NO.
MOHAMED ASIK. A	CB16S 302357
MOHAMED IMRAN. M	CB16S 302360
MOHAMED IRSATH .M	CB16S 302361


Department of Information Technology
Annai College of Arts & Science
Kovilacheri - 612 503
April - 2019


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Head of the Department


Signature of the Guide

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Internal Examiner


External Examiner

Cyber Voting System

ABSTRACT

As new information and communications technologies are transforming the meaning of democracy globally, the Cyber Vote project sought to develop a secure cyber voting system enabling citizens to vote through their mobile phones and PCs connected to the Internet. This contributed to increase the overall participation of citizens to all kind of elections, and more specifically the participation of the young, the physically handicapped people (including elderly), immigrants, and socially excluded people.

Voting for cyber system is the futuristic IT enabled service that can be provided to citizens to make their life that much responsive to the call of democracy with minimum effort unlike those pains associated with obtaining EPICs. Internet facilities can be enabled during election time so that citizens can use their vote and the security enabled voting systems connected to a central gride can prevent any kind of fraud.

Hacking may not be a problem since shells based security cordons/grid locks/firewalls etc., will take care of these aspects from the central grid system. Without making voting compulsory, majority voters rule can be expected because voting is made easy and instantaneous projections will keep flashing within the given hours of voting.

The CYBERVOTE project aims to contribute to the development of democracy by enabling all its citizens the use of a modern electronic voting system. The goal is to increase the overall participation of citizens to all kind of elections and more specifically to increase the participation of the young, physically handicapped people, immigrates and socially excluded people.

The objective of the CYBERVOTE project is therefore to develop the first completely secure cyber voting system based on WAP, WML, XML, HTML and .NET technologies that will enable citizens to vote through their PCs connected to Internet. The CYBERVOTE design will be driven by solutions which will allow the user



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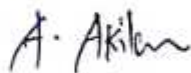
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NAME	REG.NO.
MOHAMED ISMATHULLAH .H	CB16S 302362
MOHAMMED FAZITH.M	CB16S 302364
MOHAMMED RIYAS. A	CB16S 302365

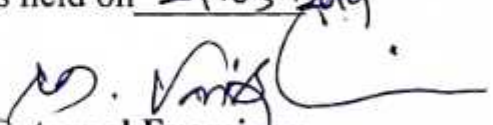
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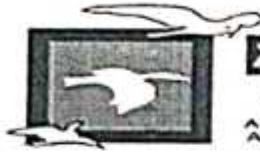

External Examiner

Database Migration

ABSTRACT

The purpose of this software specification (SS) is to establish the major requirements & Specification necessary to develop the Software Systems for the Developers. The overall objective of the Team Project is to establish a web-based. The goal of this document is the same as any requirements document, to lay out all requirements of the application in order to have both the developers and the end users maintaining the same understanding and expectations from the application. The project requirements will define, in general terms, the setup of the web site, topics for available information concerning the Software Project Management.

The most interesting aspect of the project is the Database Migration. This project deals with the conversion of the contents of the tables of a database to a well-organized XML document. The converted XML document could be converted back to a table in any database supported. The tool is more generalized by providing connection to four different databases namely Oracle, MS Access and SQL Server.



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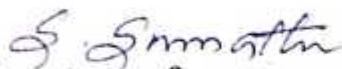
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IMPLICIT PANEL SHARING
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Is a bonafide record of the original work done by

NAME	REG.NO.
NANDHAKUMAR. N	CB16S 302366
NOOR MOHAMED. H	CB16S 302367
NOORUL FARJUNA. H	CB16S 302368


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Anna College of Arts & Science
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Internal Examiner


External Examiner

Implicit Panel Sharing

ABSTRACT

Desktop sharing is a software application used to share desktop content with another computer and even enables remote access. The computer can be on the Internet thousands of miles away giving desktop sharing distance-free capabilities. Desktop sharing applications are used by network administrators to control computers with minimal travel time, since the technician can interact with the desktop as if he is sitting in front of the computer. With the growth of multinational corporations and the requirements for large networks, companies need an Internet technology professional for each office location. Desktop sharing software provides a more efficient way to manage tech support issues. Online computer support personnel can change desktop settings, update software, troubleshoot PC issues and access files on the remote computer via a remote desktop connection. As long as the computer is powered on and has networking capabilities, tech support administrators can manage the machine including rebooting it for software updates. These remote applications can also be used for servers on the network. Along with remote support, desktop sharing applications can serve as the ideal solution for web conferencing. With desktop sharing, a company can organize a group meeting online, such as for a webinar or for online meetings. Desktop sharing requires a small application client on the remote computer. A computer support administrator runs the "host" application on their PC and starts a remote desktop sharing session. The application runs on the support administrator's machine. Good desktop sharing applications require a username and password before remote control is allowed.



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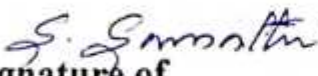
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MEDICAL CARE SYSTEM
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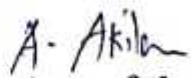
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NAME	REG.NO.
RAJALINGAM. T	CB16S 302369
RAJKUMAR. R	CB16S 302370
RANJITH. N	CB16S 302371

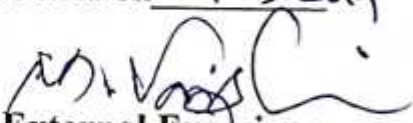
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Internal Examiner


External Examiner

Medical Care System

ABSTRACT

This project is aimed to developing an Medical Care System. An Organization wants to starts Health Insurance against its employee. The Medicare system will maintain all information related to the employee (Patient), maintenances of Claims pertaining to the Insurance companies, information about all sort of medical services providing by the hospital to the corporate employees, claim settlements & adjustments against their services authorizing by the Insurance Companies. Additionally this system can also maintain the health related all information of the employees.

- This module is used to print various online reports. This module will be enabled only to the admin type of users.
- In this admin generate various types of reports about the employees working in the organization.
- In this admin generate various types of billing reports which are generated by employees working in the organization.
- In this admin generates the reports by date wise as input and gives details of bill made on that date along with total information. This report should be available for a given date or for a date range.



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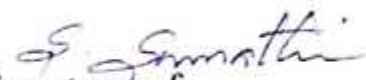
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ONLINE CENSUS MANAGEMENT
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of

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Is a bonafide record of the original work done by

NAME	REG.NO.
SATHAM HUSSAIN.A	CB16S 302373
SHAJITHA BANU. S	CB16S 302374
SUBASRI. R	CB16S 302375

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Online Census Management

ABSTRACT

One of the basic data requirements to apply the component projection method (which is the universally accepted method of population projection) is information on the age distribution of the population in 5 year age groups or by single years of age at the base year of start of projection. In order to get this distribution for the base year of 2001, it has become necessary to adopt an age distribution based on the past projections or other recently available evidence. The census results available so far give distributions only in two broad ages 0 to 6 and 7 and over.

It is also necessary to make assumptions on future trends in fertility and mortality at the national level and at the state levels. State level projections also call for assumptions on migration from state to state. The latest projections available so far are all based on 1991 census data as base and we have three sets available, They are 1) by the Planning Commission's Technical Group on Population Projections (1996), 2) by the Population Foundation of India (2000) and 3) by Tim Dyson (2000). Assumptions and results of these projections are available in the publications cited in the Reference. The Planning Commission has requested for a preliminary set of projections based on 2001 census data published recently for their Vision 2020 project and this exercise was undertaken to meet their needs.



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WEB BASED REWARD MANAGEMENT SYSTEM
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BACHELOR OF INFORMATION TECHNOLOGY

Is a bonafide record of the original work done by

NAME	REG.NO.
SURESH. E	CB16S 302376
SURYA. K	CB16S 302378
THANGAVELMURUGAN. R	CB16S 302379

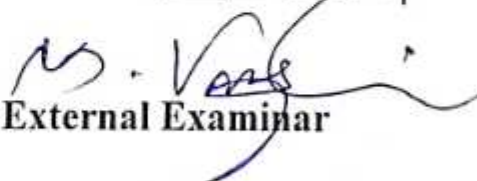
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Internal Examiner


External Examiner

Web Based Reward Management System

ABSTRACT

The functionality of this web tool can be expressed by considering a Company has an internet based product called Info bar, which allows users to view useful links from different sites on topics of his/her interest

To encourage the usage of the Info bar, the company has a reward point scheme. 10 points are rewarded on usage of Info bar for 1 hr. When a user accumulates over 100 points, he can redeem them for a gift of his choice.

This project aims at building a Reward Points Management System for the customer support team of the company.

Objectives are to build

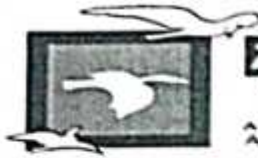
A data store for user information Web site supporting functionalities like - Search/sort/add/delete/view/modify etc on user information

Modules for bonus point allocation

Facility to add information on different gifts available and bonus points against them Facility to detect fraud/duplicate users.

Generate report on number of users using the Info bar in a month, their responses to various schemes etc

Communicate user via email to notify him about various incentives and bonus point schemes, get his feedback etc



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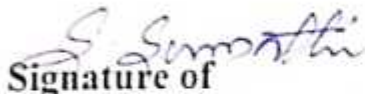
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SPREAD SPECTRUM WATERMARKING SECURITY
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of


BACHELOR OF INFORMATION TECHNOLOGY

Is a bonafide record of the original work done by

NAME	REG.NO.
THASLIMA BANU.A	CB16S 302380
VIGNESH. B	CB16S 302381
VIGNESH .R	CB16S 302382

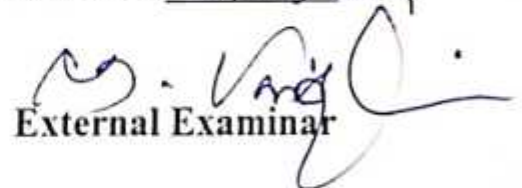
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Head of the Department


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Spread Spectrum Water Marking Security

ABSTRACT

This project presents a secure (tamper-resistant) algorithm for watermarking images, and a methodology for digital watermarking that may be generalized to audio, video, and multimedia data. We advocate that a watermark should be constructed as an independent and identically distributed (i.i.d.) Gaussian random vector that is imperceptibly inserted in a spread-spectrum-like fashion into the perceptually most significant spectral components of the data. We argue that insertion of a watermark under this regime makes the watermark robust to signal processing operations (such as lossy compression, filtering, digital-analog and analog-digital conversion, requantization, etc.), and common geometric transformations (such as cropping, scaling, translation, and rotation) provided that the original image is available and that it can be successfully registered against the transformed watermarked image. In these cases, the watermark detector unambiguously identifies the owner. Further, the use of Gaussian noise, ensures strong resilience to multiple-document, or collusion, attacks. Experimental results are provided to support these claims, along with an exposition of pending open problems.



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Affiliated to Bharathidasan University, Tiruchirappalli. E-Mail: acaedtmn@gmail.com

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of

BACHELOR OF INFORMATION TECHNOLOGY

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NAME	REG.NO.
VIJAY .M	CB16S 302383
VINOTHA. S	CB16S 302384
BARANIKA..G	CB16S 301826

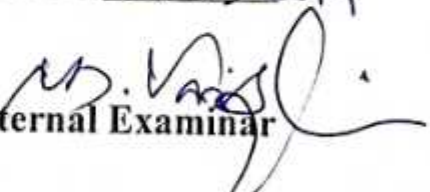
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Internal Examiner


External Examiner

Petro Credit Card Supervision Coordination

ABSTRACT

Fraud is a set of illegal activities that are used to take money or property using false pretenses. Transaction fraud using credit card is one of the growing issue in the world of finance. A huge financial loss has significantly affected individuals using credit cards and furthermore vendors and banks. One of the most successful techniques to identify such fraud is Machine learning. This paper proposes a fraud detection algorithm using Random Forest which can help in solving this real world problem. The accuracy of detecting fraud in credit card transaction is increased using this proposed system. The proposed system also uses learning to rank approach to rank the alert that effectively reduces the number of alert generated by FDS thereby providing investigator a small reliable fraud alerts.

A huge financial loss has significantly affected individuals using credit cards and furthermore vendors and banks. One of the most successful techniques to identify such fraud is Machine learning. This paper proposes a fraud detection algorithm using Random Forest which can help in solving this real world problem. The accuracy of detecting fraud in credit card transaction is increased using this proposed system. The proposed system also uses learning to rank approach to rank the alert that effectively reduces the number of alert generated by FDS thereby providing investigator a small reliable fraud alerts.