SBRR MAHAJANA FIRST GRADE COLLEGE(Autonomous)

Jayalakshmipuram, Mysore - 12

(Affiliated to University of Mysore and accredited by NAAC with 'A' Grade)

DEPARTMENT OF COMPUTER APPLICATION



Certificate

This is to certify that Ms. BHAVANA MS

with Register no MCD19010 has successfully completed the project work in

SBRR MAHAJANA FIRST GRADE COLLEGE

prescribed by the University of Mysore for BCA course VI semester during the year 2022.

Signature of the teacher in charge

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EDUCATION TO EXCEL

Smt. BhagyalakshmammaRattehalliRamappa

Lavalakshmipuram, Mysore – 12

Mysore and accredited by NAAC with 'A' Grade)

MART OR CODE BASSED BUS PASS

PROJECT WORK REPORT

The requirement for the award of Bachelor of Computer Speciation Degree 2019-2022(Batch)

University of Mysore

Submitted by

SHREYAS M.R.

VI Semester B.C.A.

Mahajana First Grade College

mipuram, Mysore.

Under the guidance of

POOLASHREE S

Temporal of Computer Application

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2021-2022

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indulmipuram, Mysore - 12

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Description of Computer Application



Certificate

SHREYAS, M.R. with Register no shall be completed the project work in SMART QR prescribed by the University of Mysore for during the year 2022.

acher in charge

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Application (Autonomous

ore-12

INTRODUCTION

new seed to update ourselves to be in touch with new ticketing is very slow and tedious process. Customer bus pass in bus Depot which is time consuming and the Depot as well as user. Existing bus pass system has mented every time. This is a vapid process, which require to mistance system does not provide any security options. This The maintaining bus pass. Digital bus pass generating system and the second continuous and the standing in long queues to get their was some consumption and makes the process of issuing the pass for long time, just need to recharge their me when pass is going to expire. performs functionalities like accessing basic The provides security option for women by The admin and the conductor of the bus would OR code which is provided on the and other scanning conductor will authenticate users.

admin and conductor. This system provides web
the for people to get their Bus passes online. This system
the instead of standing in long queues to obtain their
the can refill their account and extend the validity of card
the system provides functionality like accessing basic
and provide Bus pass for the user without placing them

be pass by scanning the QR code provided on the pass with a recommended

the project

In this system we will generate digital and smart bus pass. Our system has the ser, admin and conductor. This system provides web application as well as the pass online instead of standing in long queues to obtain their bus passes. This to reduce the paper work; time consumption and user get the bus pass in the way. User can refill their account and extend the validity of card when the expire. This system provides functionality like accessing basic information of standing and provide Bus pass for the user without placing them in long

are or application. In simple words, SRS document is a manual of a project mared before you kick-start a project/application. This document is also known report, software document. A software document is primarily prepared for any kind of application. There are a set of guidelines to be followed while the are requirement specification document. This includes the purpose, scope, son-functional requirements, software and hardware requirements of the security requirements, software quality attributes of the project etc.

E Wethodology

- Scott

be bus system conductor less. Also we provide smart card for all the bus provide paper less bus tickets. This project aims at providing an effective maining Bus pass information. The system has two login, one for user and the Online bus pass Generation system is a web as well as android application for

get Bus passes online. Online bus pass generation system would be useful for all get bus pass online instead of standing in long queues to obtain their passes. Online generation system is helpful because it reduces the paper work, takes less time and the process of issuing bus pass in simple and faster way. User can refill their account and the validity of pass every time when the pass expires. Our system is intended to functionality like accessing basic information for authentication and provide Bus pass expless without placing them in long queues. These systems provide security option for and provide tracking of smart card if in case smart card is lost. The official in the bus a ble to verify the authenticity of the pass by scanning the QR code provided on the

CHAPTER 2

JUSTIFICATION FOR DOING THIS PROJECT

Turpose of the project

provides effective software for maintaining bus pass. Digital bus pass generating seful for peoples to get their bus pass online instead of standing in long queues to pass. This system reduces paper work, time consumption and makes the process in simpler and faster way. User can use the pass for long time, just need to account of digital pass and extend the validity of pass every time when pass is No need to print the pass every time. This system performs functionalities like information of user authentication. This system provides security option for sotifying their guardian when pass is scanned. The admin and the conductor of the label to verify the authenticity of the bus pass by scanning QR code.

Tracing system

When our pass is expired and we want to renew that pass then we have to stand always regenerate pass. This system is already done in Karnataka and Andhra but there are some drawbacks. Like in Andhra Pradesh they created pass using

Emposed system

login, one for user and the other for admin. Online bus pass Generation system setul for all people to get Bus pass online. Online bus pass generation system passes. Online bus pass generation system is helpful because it reduces the paper less time and makes the process of issuing bus pass in simple and faster way. User their account and extend the validity of pass every time when the pass expires. Our mended to perform functionality like accessing basic information for authentication bus pass for the peoples without placing them in long queues. These systems making of smart card if in case smart card is lost. The official in the bus would be able



A Project Report on

Update repair details

me partial fulfillment as a requirement for the award of degree of

BELOR OF COMPUTER APPLICATION

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PARTMENT OF COMPUTER APPLICATION



Certificate

has successfully completed

work in GEOGRAPHIC LOCATION WISE OPTICAL

OPTIC FIBER CABLE HUB CHECK AND UPDATE

DETAILS prescribed by the University of Mysore for BCA

Transaction of the year 2022.

the teacher in charge Head of the Department
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Examiners

2. Lought

CHAPTER 1: INTRODUCTION

III Introduction:

This project will serve as a good indication of how important Geo location is important find optical fiber hub identification for cellular companies, during a flood and natural calamities it is difficult to find optical fiber cable mounted under the earth, by using Geo location cellular worker can easily find the optical fiber cable line and used for repair and further work. Companies can easily monitor the cable connections and components information. Once repair finished worker need to add the repair information, and they can also view the previous repair details. Companies can get repair report in all categories like region wise, hub wise, problem wise and also view the optical fiber cable components expire status.

1.2 Problem Statement:

This project enables companies to maintain location wise their cellular (optical fiber cable) mounted information easily, save the time for workers to find cellular hub and update the report, companies can easily review the repair information and take decision in where in the world. Cellular companies can set geo location (longitude / latitude) for (OFC) cable line. Share the (OFC) hub location to workers. Workers need to update repair information. Compare previous repair details to solve problem. Companies can view repair information and problem statement. Reminds companies to change expire cable components.

1.3 Objective of Project:

- Cellular companies can set geo location (longitude / latitude) for (OFC) cable line
- Share the (OFC) hub location to workers
- Workers need to update repair information
- Compare previous repair details to solve problem
- Companies can view repair information and problem statement
- Reminds companies to change expire cable components

1.4 Motivation of Project:

This project enables companies to maintain location wise their cellular (optical fiber cable) mounted information easily, save the time for workers to find cellular hub and update the report, companies can easily review the repair information and take decision anywhere in the world.

Geographic Location Wise Optical Fiber Hub Check and Update Repair details

1.5 Project Overview:

- The current application provides most unique features than the before System in the current real-world market.
- Maintaining data properly.
- Tracking order by each OFC Hub.
- In case of any flood, it helps in detecting the damage based on area.
- Exact details about the reaching order at destination.
- Providing web-based application to the both user and admin.

1.6 Literature Survey:

 Paper 1: GPS assisted Standard Positioning Service for navigation and tracking: Review & implementation by AfshanMul, Jay pal Baviskar, Amol Baviskar, Aniket Bhovad

This paper deals with the comprehensive study of GPS space segment and Control segment. Initially, the specification of GPS service known as Standard Positioning Service (SPS) ranging signal characteristics is introduced. Further, a detailed overview of GPS navigation message format, satellite tracking and selection process, frequency planning, C/A code generation and timing is studied and illustrated. Also, the user end implementations of location measurement processing algorithms are discussed. All the location information is used along with survey maps and object control actuators to support navigation. Furthermore, paper briefly describes the implementation of the real time position tracking system.

2] A real time GSM/GPS based tracking system based on GSM mobile phone by M. A. Al Rashid, Osman Abdoulaye Omar and Damanjit Singh

A GPS based tracking system is proposed which keeps track of the location of a vehicle and its speed based on a mobile phone text messaging system. The system is able to provide real-time text alerts for speed and location. Particularly, the present location can be locked and the system will alert the owner if the vehicle is moved from the present locked location. In addition, the speed can be locked and an alert texted if this speed is exceeded.

CHAPTER 2: USER APPLICATION ENVIRONMENT

2.1 HTML

Hypertext Mark-up Language (HTML) is the standard mark up for creating web pages and web applications. With (ascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets.

2.2 CSS

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate css file, and reduce complexity and repetition in the structural content.

2.3 BOOTSTRAP

Bootstrap is a free and open source front-end framework for developing websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional Script extensions. Unlike many earlier web frameworks, it concerns itself with front-end development only.

Geographic Location Wise Optical Fiber Hub Check and Update Repair details

2.4 XAMPP SERVER

Xampp Server refers to a <u>software stack</u> for the <u>Microsoft Windows</u> operating system, created by Romain Bourdon and consisting of the <u>Appelie web server</u>, <u>Opens</u> for SSL support, <u>MySQL</u> database and PHP programming language.

2.4.1 SSL Support

SSL stands for Secure Sockets Layer and, in short, it's the standard technology for teeping an internet connection secure and safeguarding any sensitive data that is being sent between two systems, preventing criminals from reading and modifying any information transferred, including potential personal details. The two systems can be a server and a client (for example, a shopping website and browser) or server to server (for example, an application with personal identifiable information or with payroll information).

be does this by making sure that any data transferred between users and sites, or between two systems remain impossible to read. It uses encryption algorithms to scramble data in transit, preventing backers from reading it as it is sent over the connection. This information could be anything sensitive or personal which can include credit card numbers and other financial automation, names and addresses.

2.4.2 MYSQL

MySQL is free and open-source software under the terms of the GNU General Public scree, and is also available under a variety of proprietary licenses, MySQL was owned and sensored by the Swedish company MySQL AB, which was bought by Sun Microsystems Oracle Corporation). In 2010, when Oracle acquired Sun, Wideners forked the open-mySQL project to create Maria DB.

2.4.3 PHP Programming

PHP: Hypertext Pre-processor (or simply PHP) is a server-side scripting language designed for web development. It was originally created by Rasmus Lerdorf in 1994 the PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive minutesia PHP: Hypertext Pre-processor.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications.



EDUCATIONTOEXCEL

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CDR (Call Details Record) Analysis and report generate by using

data mining technique

Project Work Report

In Partial fulfillment of the requirement for the award of Bachelor of Computer Application Degree 2021-2022(Batch)

Submitted by

Geetha N Priya M N

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DEPARTMENT OF COMPUTER APPLICATION



Certificate

This is to certify that Mr./	Ms. Geethan
with Register no MCD 19026	
project work in Call De talls	Recordrescribed by the University
of Mysore for BCA course VI sem	ester during the year 2022.

Signature of the teacher in charge

Head of the Department
SERR Mahajana First Grade Continu
(Autonomous)

Department of Computer Application
SBRR Maharaja First Grade College (Autonomol
Jayalak Maharaja Mixsoren12)

Date:

E 122

COR Analyzer

CHAPTER 01: INTRODUCTION

1.1 Introduction

Detail Record (CDR) is the detailed record of all the telephonic calls that pass through a telephone exchange or any other telecommunications equipment. The record is maintained by the concerned telephone exchange and contains call details such as the time of the call, duration of the call, source and destination number, completion status of the call, etc. CDRs are created by telephone exchanges' billing systems. The CDRs are saved by the transmitter exchange until the call ends. CDRs can be used to support the operations of the telephone company by supplying data about faulty calls. Estimates of the amount of route traffic can also be obtained.

CDR for a particular account can be downloaded at the request of the subscriber who holds that account. In a telephone exchange, a CDR contains information about all the passing through the exchange.

detail records serve a valuable purpose of revenue generation for telephone service providers and are critical for law enforcement, whenever required. CDR is also used for VOIP and is a file containing all usage details such as the source of origin and destination point of the call, usage period of the IP and the total amount charged during the billing period. Call Detail records are maintained by telephone exchanges emitting information in the form of tickets, with respect to individual customers/users.

1.2 Problem Definition

Agencies and Law Enforcement Agencies to Analyze, Investigate & Work on the 'Call Detail Records' and any other such type of records, received from various Mobile Operators quickly and efficiently.

13 Objective of the project

Amalyzer

- The project ensures to help in the process of crime investigation. It will help display
 the various information that one might need during the process of the investigation
 the maximum number of calls a caller has made or the duration of the call with
 another caller.
- can help determine the caller's location by displaying the location of the tower
 caller has used on Google Maps.
- It can also enable filtering the dataset based on specific conditions like based the
 It can also enable filtering the dataset based on specific conditions like based the
 It can also enable filtering the dataset based on specific conditions like based the
- It will also help in determining the owner of the device or the owner of the Sim card using the IMEI Number or the IMSI Number.

Methodology

Record (CDR) is the detailed record of all the telephonic calls that pass through exchange or any other telecommunications equipment. Call Detail Records a valuable source of information but CDRs have huge volume, great varieties of high data rate. However, we need to analyze CDRs in order to extract this information.

Analyzer is developed with the aim of creating an application that investigators can be easy analysis for making the task of investigation fast and efficient. It uses various of DBMS to filter the dataset in order to display only the appropriate makes of necessary like displaying only the calls that go through a certain tower, the phone number the caller has made maximum calls, etc. It uses Google morder to display the exact location of the tower the caller is using in order to make making it easier for investigators to approximately predict the location of the caller.

API) or access to user data (when permission to read the data is given).

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23 Overview

THE AMERICAN

ams at understanding the Call Detail Records in order to understand certain the user, for example, the frequently used tower, the person who he calls and the time he is most active. This can be used for the purpose of the where the suspect's activity can be understood to analyze if he has the crime. It can also help in determining the suspect's place of living by the frequently used tower, the suspect has used for making calls.

24 Overall Description

24.1 Product Perspective

Hence a person can be judged based on his activity on the phone. This project capture that. It analyses the calling data saved by the telecom companies. It he calling pattern. This kind of analysis of calling pattern will benefit the Police capture that with two people involved in it. The Police Department or the security agency acquire the CDR of the phone number of the suspect. They can then analyze set is the actual criminal based on location of tower he uses during the time of the other person can also be caught based on the phone number; the suspect seant touch with.

The sanous fields usually involved in a CDR file:

- Calling Number
- Called Number



A Project Report on

Image Processing method for drowsy driver alertness monitoring using fusion of facial features and Bio-signals.

Submitted in partial fulfillment as a requirement for the award of degree of

BACHELOR OF COMPUTER APPLICATION

Submitted by

DARSHAN H S HARSHA NAIK K B JNANESH R

Under the guidance of

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Certificate

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with Register no △	CD19018	_ has successfu	lly completed the pro	ject
work in "IMAGE	PROCESSING	METHOD FO	OR DROWSY DRIV	ER
ALERTNESS MON	ITORING USI	NG FUSION O	F FACIAL FEATUR	RES
AND BIO-SIGNAL	S" prescribed	by the Univer	sity of Mysore for <u>I</u>	BCA.
Signature of the tea	acher in charge		Head of the Department of Computer Application of the Computer Application of the College (Authorogypeus)	1.
2 Shouth	Jaya laks!	to Pasore-1	Valakshmipuram, Mysuru Examiners	
06/01	Exam	1	• (
-	1	2	2.	

Date: 19 9 2022

Chapter 1: Introduction

1.1 Topic Introduction:

Drowsiness, defined as the state of sleepiness when one needs to rest, can cause symptoms that have great impact over the performance of tasks: slowed response time, intermittent lack of awareness, or microsleeps (blinks with a duration of over 500 ms), to name a few examples [1]. In fact, continuous fatigue can cause levels of performance impairment similar to those caused by alcohol [2,3]. While driving, these symptoms are extremely dangerous since they significantly increase the probabilities of drivers missing road signs or exits, drifting into other lanes or even crashing their vehicle, causing an accident [4]. For this work, our premise is the following: a camera mounted on a vehicle will record frontal images of the driver, which will be analyzed by using artificial intelligence (AI) techniques, such as deep learning, to detect whether the driver is drowsy or not. By using that information, the system will be able to alert the driver and prevent accidents. Given that the ADAS will have different functionalities integrated, one of the restrictions imposed to the module presented in this work will be to avoid the activation of false alarms that may distract the driver and cause him or her to turn off the ADAS. Thus, the main novelty of this work is the use of a non-intrusive system that is capable of detecting fatigue from sequences of images, which at the moment is an open problem. In most of the available works, the experimental methodology consists of extracting and classifying individual frames from each video and verifying whether the classification.

A sleepy driver is arguably much more dangerous on the road than the one who is speeding as he is a victim of microsleeps. Automotive researchers and manufacturers are trying to curb this problem with several technological solutions that will avert such a crisis. This article focuses on the detection of such micro sleep and drowsiness using neural networkbased methodologies. Our previous work in this field involved using machine learning with multi-layer perceptron to detect the same. In this paper, accuracy was increased by utilizing facial landmarks which are detected by the camera and that is passed to a Convolutional Neural Network (CNN) to classify drowsiness. The achievement with this work is the capability to provide a lightweight alternative to heavier classification models with more than 88% for the category without glasses, more than 85% for the category night without glasses. On average, more than 83% of accuracy was

achieved in all categories. Moreover, as for model size, complexity and storage, there is a marked reduction in the new proposed model in comparison to the benchmark model where the maximum size is 75 KB. The proposed CNN based model can be used to build a real-time driver drowsiness detection system for embedded systems and Android devices with high accuracy and mase of use,

1.2 Objectives:

- The main objective of this project to build model using deep learning techniques which helps to identify whether ther person is drowsy or not
- The application helps in detecting eye of the person and alarm if the eye is closed for 10 seconds
- The objective of this project is to identify more accuracy result.

1.3 Motivation for the project

As there is always increasing the death rate in the accident rate most of the accidents are happening due to the driver drowsing in highway. To overcome from this solution in the existing mestern we are going to build this model which helps in identifying the driver drowsy.

1.4 Project overview:

Driver drowsiness is among the leading causal factors in traffic accidents occurring seridwide. This paper describes a method to monitor driver safety by analyzing information mixed to fatigue using two distinct methods: eye movement monitoring and bio-signal mocessing. A monitoring system is designed where it receives sensory data via wireless sensor movement and further processes the data to indicate the current driving aptitude of the driver. It is mixed that several sensors are integrated and synchronized for a more realistic evaluation of the mixed behavior. The sensors applied include a video sensor to capture the driver image and a movement framework is used for the driver photoplethysmography signal. A dynamic Bayesian mover framework is used for the driver fatigue evaluation. A warning alarm is sounded if the fatigue is believed to reach a defined threshold. The manifold testing of the system monstrates the practical use of multiple features, particularly with discrete methods, and their monstrates a more authentic and ample fatigue detection.

1.5 LITERATURE SURVEY:

In various approaches steps are taken for facial landmark detection, object tracking and methods for driver drowsiness detection can be used in two ways either in contact approaches or in non-contact approaches. The nature of the techniques largely depends on the application domain.

Many researchers have attempted various technologies such as monitoring of underlying patterns in steering, monitoring vehicle position in lane, monitoring the eye/face of the driver, physiological measurement etc. It is seen that most approaches use driver eye/face monitoring, physiological measurement. The research done in 2019 uses driver eye/face monitoring which creates a "DriCare" alert for the driver [3]. The system is efficient and its efficiency can be validated using a public driver drowsiness recognition dataset. Some of the research works which made the evolution to proposed work are depicted as follows.

A. Facial Landmarks Recognition Facial landmarks are an important, yet challenging phase in drowsiness detection. It has been applied to solve problems like alignment of face, estimation of head pose, swapping of face, blink detection etc. It usually used to pinpoint and characterize significant areas of the face, eyebrows, nose, and mouth. The research work by the authors Y. Sun, X. Wang and X. Tang propose a new methodology for approximation of the locations of facial key points with convolutional networks having three carefully designed levels [4]. There are two benefits: first, the texture context data over the whole face is applied to find every key point. Second, for the reason that networks are skilled to predict all of the key points simultaneously, the geometric constraints amongst key points are implicitly encoded. The approach consequently can keep away from local minimum arising due to ambiguity and information corruption in difficult image samples because of occlusions, large pose variations and extreme lightings. Various network architectures are critical for precise and robust facial point detection. Results have been shown in three levels of convolutional networks: initial detection, tuned outcomes with the second and third levels of networks which improve the accuracy. Benefits are high performance convolutional networks. It also improves accuracy of modern-day methods and latest industrial software and additionally incredibly sturdy preliminary estimations. Drawback is that regionally sharing weights of neurons on the same map develops

Effect of routine spice actives on thermally and chemically induced lipid peroxidation among three varieties of cooking oils

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June 2022

Evaluation of Anti- Inflammatory Effect of *Moringa oleifera* and *Justicia wynaadensis* Nanovesicles in Swiss Albino Mice

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Submitted for fulfillment of requirements of

M.Sc. Biochemistry degree from

Pooja Bhagavat Memorial Mahajana Education Centre

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August-2022

Title: EFFECTS OF BILIRUBIN AND ALP CHANGES IN CONTROL V/S JUST BORN BABIES, PREGNANT WOMEN AND JAUNDICE PATIENTS.

A dissertation report submitted by

Parinitha.K. N MPF20020

M.Sc. Biochemistry, IV Semester Pooja Bhagavat Memorial Mahajana Education Centre SBRR Mahajana FGC (Autonomous) Metagalli, Mysuru 570 016

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CEO and Principal Scientist
UNEGENE labs and research Centre.

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M.Sc. Biochemistry degree from
Pooja Bhagavat Memorial Mahajana Education Centre
SBRR Mahajana FGC (Autonomous)
Metagalli, Mysuru 570 016
June 2022

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DEVELOPMENT OF AFFORDABLE, COST EFFECTIVE AND EFFICIENT BLOOD COLLECTION TUBES

A dissertation report submitted by Mithil Jain H J MPF20019

M.Sc. Biochemistry, IV Semester

Pooja Bhagavat Memorial Mahajana Education Centre

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Metagalli, Mysuru 570 016

June 2022

UNIVERSITY OF MYSORE



University of Mysore Manasagangothri Mysuru-570005



Department of Studies in Computer Science PBMMEC Mysuru-570016

CERTIFICATE

Certified that the project work entitled "HEALTHCARE DATA SECURE using BLOCK CHAIN and TRIPLE DES" is a bonafide work carried out by Miss. Harshini, Reg. No. MPB19008 in partial fulfillment of requirements for the award of Master of Computer Applications by University of Mysore during the academic year 2021-2022. It is certified that all corrections and suggestions indicated for the Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of the Dissertation Work prescribed for the said Degree.

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Name of the Examiners

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2. DY VEENA AN

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EXAMINER-2

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Certified that the Project work entated "DETECTION OF COVID-19 HASED ON CHEST MAYN IMAGEN'S a bonafide work carried out by me Ma. APOURVA D. Reg. ftp. MPB19002, in partial fulfillment for the award of the Master of Computer Application degree By Mysore University, Mysoru during the scademic year 2021-2022. It is scripted that all corrections and suggestions indicated for the Internal Assessment have been incorporated in the report and deposited in the department library. The project report has been approved as a satisfies the academic requirements in respect of Project Work prescribed for the said Degree

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Certified that the project work entitled "SECURE DATA SHARING IN CLOUD" is abonafide work carried out by Ms. AISHWARVA B R Reg. No. MPJ20001 in partial fulfilment of requirements for the award of Master of Science in Computer Science degree by University of Mysore during the academic year 2021-2022. It is certified that all corrections and suggestions indicated for the Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of the Project Dissertation prescribed for the said Degree

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2 Dr. Nelha M.N.

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SBRR MAHAJANA FIRST GRADE COLLEGE (AUTONOMOUS)

 $\label{eq:Jayalakshmipuram} Jayalakshmipuram, Mysuru-570~012$ Affiliated to University of Mysore Re-accredited by NAAC with 'A' Grade College with Potential for Excellence

Department of Criminology and Forensic science Organized

One Day field visit to V V Puram Police Station for Second Year BA Students on 08-2-2023



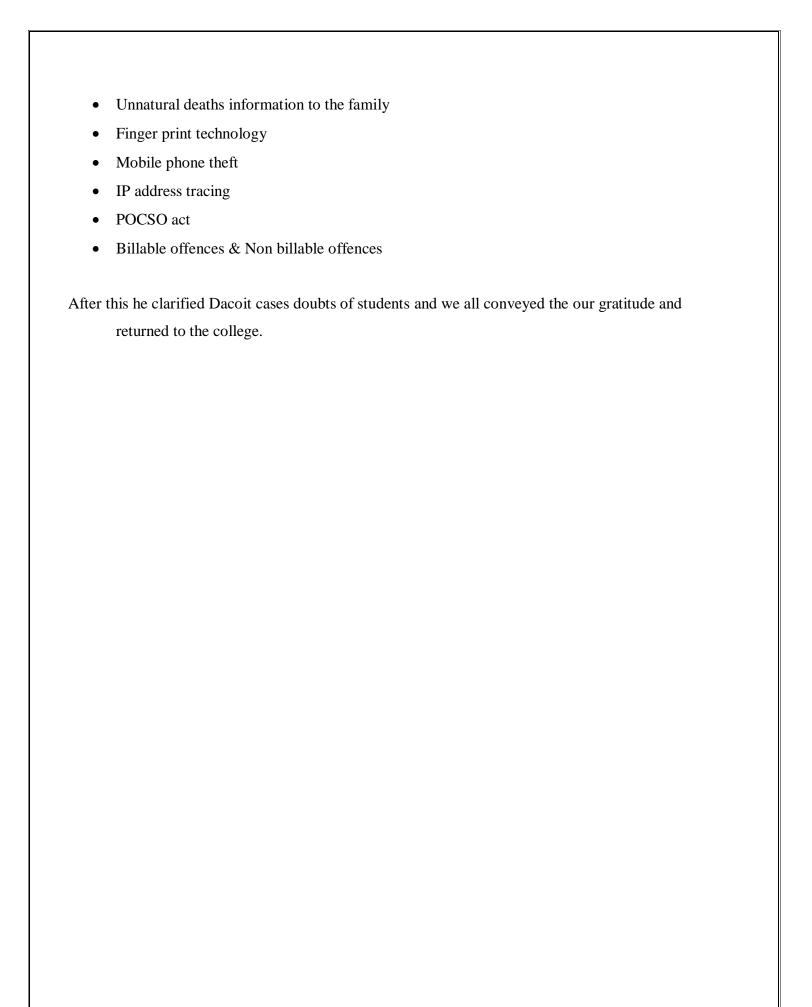


On 8^{th} Feb 2023 around 10.30 am we visited the jayalakshmi puram police station, **PSI Prabhu** who accommodated all the students and treated us by giving Tea

He was very busy in handling the chain snatcher case, then also he gave time to us to explain the role & function of Department

He started his explanation with the Hierarchy of the police officers to motivate the students to come in the police Department after this he explained the crime scene management and responsibilities and technology involvement in the investigation & etc.. some of the points are...

- Digital Prospectus like IMEI, CRD, CCTV, IPDR
- IT act



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Department of Criminology and Forensic science organized

One Day field visit to V V Puram Police Station for First Year BA Students on 08-2-2023







On 8th Feb 2023 around 12.30pm we visited the station and **Inspector Kiran kumar** address all students and first asked for our requirements and expectation from the police station filed visit and interacted very friendly with students

Started his explanation by giving examples of crimes in society & necessity police to the society

He started his explanation in a systematic way explained one by one of working function, duty, challenges, and responsibilities some of the points are:

- First brief the IPC CrPC & IEA and it's work function
- Explained Medico legal case
- FIR
- Suo moto FIR
- Spot mahajar
- Seizers, & Running mahajar
- Forensics' role, and analysis
- Dog squad
- Finger print analysis
- Direct evidence, collaborative evidence, Witness statement, accused statements etc..
- Explained the process of investigation, Investigation team, duties of special teams

- Gave practical Information of Legal consideration in crime scene
- Explained importance & management of Crime scene, Expert consideration in crime scene
- And he shared his own experience of solved case of POCSO,
- At last he clarified every students doubts & shared responsibility & duties of police

After the explanation students asked many doubts and Kiran sir answered all question and clarified all doubts some of the interesting questions are:

- 1. NRI crimes & criminals
- 2. Children sexual assult
- 3. Criminal profiling
- 4. Suicide cases & etc..

After the completion of doubts he shared his own experience of some of the cases and solved pending cases, & it's patterns. By finishing this we all returned to the college.

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Department of Criminology and Forensic science Organized

One Day field visit to Commissioner Office (Fingerprint Unit), Mysuru for Second Year BA Students on 20-12-2022







On 20th Dec around 3 in the after noon we visited the commissioner office, the **Sub Inspector Dhanalakshmi** was addressed our team with explanation of fingerprint collection, identification, and process of comparison & matching of ridges in impression

And she explained in Detaille regarding fingerprint examination process, and working function of finger print unit & etc..Some of the points are:

- Explained the Extraction of Finger Print from Crime scene
- Explained Process and Challenges while Collecting the Prints
- Also gave the demo for collection of Finger prints using various type of Powders

Using: Black powder

White powder

- And Showed the identification and Matching of Ridges in Finger Prints
- After this, gave the information regarding soft ware's (AFIS) and its work functions and Method of working & using
- Informed 8 ridge characteristics to confirm the fingerprint
- Gave demo for image processing and pattern recognition technique to capture, store, match, and compare the chance print
- Showed the live scanner prints
- Information regarding all finger prints data, & NCRB data
- Explained the MOB file & etc..

	etion of explanation & Demo session by Dhanalakshmi we got the chance to saw the fer using light source		
Then ACP Rajashekar Concluded Our visit by Demonstrating Fingerprint Detection using Differ Light Sources			

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One Day field visit to CBN (Cyber Economic Narcotics) Police Station for Final Year BA Students on 2-12-2022





On Dec 2 of 2022 at 10:15 am in the morning we visited CEN Police station Located in jalapuri, Nazarbad, Mysuru, Karnataka 570010

The First officer to address us was **Head constable Basha**, he provide information regarding the most common kinds of crimes which they deals with, and gave an overview of the CEN police station activities





He gave some of the information with the following kind of crimes:

- Email and internet Fraud
- Identity Fraud
- Theft of financial or Debit card data
- Cyber extortion
- Illegal gambling
- Selling illegal items in online
- Soliciting, producing, or possessing child pornography
- Financial Fraud, (through **UPI Transaction by using Bar & QR code**)
- And explained Social Media Crimes, Extortion using these Flat forms
- After crimes explanations they discussed CrPC Provision Section 102 & 90 which helps for their Investigation and informed about Cyber crime **Helpline No**: **1930**
- And Online portal NCRP (National Cyber crime reporting Portal)

	Subhash Chandra specharas, and explained tases		
At last PS	Anil Kumar Clarified session by saying to be		

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> Department of Criminology and Forensic science Organized

One Day field visit to Central Prison, Mysuru for Final Year BA Students on 09-12-2022



On 8^{th} Dec 2022 at 10.30 am we went to central jail which has located in Ashoka road, Mysore Karnataka 570001

Around 11.30 they let us in and scanned each one of us, as we not allowed taking in the gadgets, nor any kind of things since it is strictly prohibited.

Prison warders checked fully and gave the token & put the seal to all member's hand before the entry



- Once we enter to the central Prison, **Security Warder Purshotham** explained regarding process of inspection for entry and exit
- After clarification of doubt regarding entry, prisoner meeting, time & day, students asked regarding total area of prison, total strength of the staff & Prisoners & etc.
- After Completion of checking & Entry process we entered to prison and The Assistant Jailer welcomed us and explained regarding prisoner daily wages, facilities, activities, distribution of foods, medical accessibility, trailing Procedure, celebration of program & festivals, celebration allowances with respect to their religions,& etc

Then Warder Sagar join our team & explained in detail about the following

- Staff: Warder, Warden, Prison Guard, Jailer, Case manager, Counselors, Medical workers, Work release supervisors, & etc..
- Division of Prisons,
- Trailing periods & submission process of trail prisoners,
- Safety procedures, surveillance of prison,
- kitchen time table, food availabilities,
- Offered works & skills to the prisoners,
- Entertainment facilities like TV, Books, Newspapers & etc,

•	Opportunity regarding to complete the educations, and etc Also he answered for all students questions, doubts & clarified doubts, and then we conveyed our Gratitude to all staff members & exit the Prison