5.7.4 Consultancy (From Industry) (5)

2023-2024(CAYm1)

Project Title	Duration	Funding Agency	Amount
Visitor App-Campus Visitor 360	4 months	Sri Venkateshwaraa College of Physiotherapy	35000
Online Mock Interview Website Using Machine Learning	5 months	Sri Venkateshwaraa Dental College	30000
Result Analysis And Reporting System	4 months	Indirani College of Nursing	25000
Campus Interview Management Portal	6 months	Sri Venkateshwaraa Group Of Institution	40000

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

5.7.4 Consultancy (From Industry) (5)

2023-2024

TITLE :

VISITOR APP-CAMPUS VISITOR 360

TEAM MEMBERS:

Abimanui.M

Hariprasath.S

Jayabalaji.L

Sakthivel.A

Yuvaraj.K

ABSTRACT:

The Advanced College Management System (CMS) project represents a groundbreaking initiative poised to redefine academic administration through a comprehensive suite of integrated functionalities. This transformative system will revolutionize key processes, including precise tracking of staff and student attendance, dynamic management of profiles, real-time assessment of achievements, and optimization tools for staff workload. Furthermore, it incorporates a sophisticated financial management system tailored for student fees. By amalgamating these features into a unified platform, the CMS aims to elevate operational efficiency, enhance decision-making capabilities, and cultivate a culture of engagement and accountability within the academic community. Leveraging cutting-edge technologies and data-driven insights, this project is dedicated to catering to the diverse needs of educational institutions, thereby fostering a seamless and efficient management experience.

MODULES:

THE USER REGISTRATION MODULE:

The User Registration Module within Campus Visitors 360 serves as a comprehensive platform for efficiently managing and organizing user accounts, permissions, and profiles. This module ensures seamless access control and security measures while providing a user-friendly experience for all stakeholders.

Dr.N.BALAJI, B.E., M.Tech., M.E., Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

THE VISIT REQUEST MODULE:

The Visit Request module in Campus Visitors 360 serves as a convenient and efficient platform for users to submit requests for campus visits. This module streamlines the entire visit request process, ensuring smooth coordination and timely approvals.

APPROVAL WORKFLOW MODULE:

The Approval Workflow module in Campus Visitors 360 is designed to streamline and automate the process of approving visit requests from parents, students, faculty, and administrators. This module ensures that visit requests are handled efficiently and transparently, enhancing the overall visitor experience on campus.

QR CODE GENERATION:

The Notification Module serves a crucial purpose within the Immunization Vaccine Schedule for Hospital Workers Notification System.

CHECK-IN/CHECK-OUT MODULE:

The Check-in/Check-out module within Campus Visitors 360 offers a seamless and secure process for managing visitor arrivals and departures on campus.

:

DASHBOARD AND REPORTING MODULE:

The Dashboard and Reporting Module serves a critical purpose in providing administrators and authorized users with insights and tools to effectively manage vaccination schedules and monitor compliance within the Immunization Vaccine Schedule for Hospital Workers Notification System.

REPORTING AND ANALYTICS MODULE:

The Reporting and Analytics Module of Campus Visitors 360 provides essential insights and data-driven decision-making capabilities.

ADMIN DASHBOARD MODULE:

Safety, enforces compliance with regulations, and implement preventive measures to mitigate security threats effectively.The Admin Dashboard Module of Campus Visitors 360 offers you comprehensive control and oversight over the visitation process within your campus.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

NOTIFICATION MODULE

Notification Module in Campus Visitors 360 serves as a vital communication tool for informing stakeholders about important updates, events, and reminders.

INTEGRATION MODULE

The Integration Module of Campus Visitors 360 focuses on seamlessly connecting various systems and functionalities to enhance efficiency and effectiveness.

CONCLUSION:

The Advanced College Management System (CMS) project represents a groundbreaking initiative poised to redefine academic administration through a comprehensive suite of integrated functionalities. This transformative system will revolutionize key processes, including precise tracking of staff and student attendance, dynamic management of profiles, real-time assessment of achievements, and optimization tools for staff workload. Furthermore, it incorporates a sophisticated financial management system tailored for student fees.

Dr.N.BALAJI, B.E.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE :

ONLINE MOCK INTERVIEW WEBSITE USING MACHINE LEARNING

TEAM MEMBERS:

Arulselvi.P

Dhivyasri.N

Hemalatha.M

Keerthika.A

Prithipa.A

Priyadharshini.M

ABSTRACT:

Our Mock Interview Website is a forward-thinking platform designed to enhance job interview preparation. It leverages Al and natural language processing to generate tailored interview questions based on a user's resume, ensuring relevance to their job application. Users can then record video responses to these questions, simulating real interviews. The system employs sentiment analysis on these video responses to provide insights into the interviewee's emotional state, helping users gauge their responses' impact. Through Al-driven algorithms. our system assesses response content. Users receive a comprehensive evaluation report, complete with sentiment analysis results and feedback for improvement. This multifaceted approach empowers users to refine their interview skills and boosts their confidence. In a competitive job market, this platform equips job seekers with data-driven insights and personalized practice, setting them on a path to success. Emotion distribution learning is an effective multi-emotion analysis model proposed in recent years.

MODULES:

USER REGISTRATION:

The system analyses the textual content of resumes to identify key information relevant to job interviews, such as technical skills, soft skills, certifications, and work experience. Through sophisticated parsing algorithms, the system identifies and categorizes these skills, ensuring accuracy and completeness in the extraction process.

Dr.N.BALAJI, M.E., Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

WELCOME PAGE:

Moreover, the module is designed to handle various resume formats and structures, accommodating diverse user submissions. By automating the extraction of skills using NLP, the Resume Parsing Module streamlines the interview preparation process, providing users with tailored and relevant interview questions based on their unique qualifications and experiences. This enhances the overall efficiency and effectiveness of our platform, enabling users to focus their preparation efforts on areas directly pertinent to their desired roles and industries

RESUME UPLOAD:

The Database Module serves as the foundational component of our system, responsible for storing crucial data pertaining to user interactions and sentiment analysis results. It functions as a centralized repository where information such as user question-answer pairs, associated marks, and sentiment analysis values are securely stored and organized. This module ensures the persistence and accessibility of vital data, facilitating seamless user experiences and robust analysis capabilities.

QUIZ QUESTIONS

By storing user question-answer pairs along with corresponding marks, the system can track users' performance and progress over time, enabling personalized feedback and adaptive learning experiences. Additionally, storing sentiment analysis values allows for the aggregation and analysis of user emotions throughout the interview process, providing valuable insights into emotional states and trends. Leveraging a robust database infrastructure, this module enables efficient data management and retrieval, supporting the scalability and reliability of our platform. Overall, the Database Module plays a pivotal role in enhancing the functionality.

ADMIN LOGIN:

This module analyses users' skill levels and experiences in these programming languages, as extracted from their resumes through the Resume Parsing Module.Based on this analysis, the module dynamically generates a diverse range of questions that assess users' understanding and proficiency in key concepts, syntax, algorithms, and best practices relevant to Python and Java development.These questions encompass various difficulty levels, catering to users with different skill levels, from beginners to advanced practitioners.

QUESTION:

Moreover, the module ensures that the generated questions align closely with industry standards and current trends in software development, providing users with practical and relevant preparation for real-world job interviews. By offering personalized, skills-based questions tailored to users' expertise in Python and Java, the Question Generation Module empowers users to enhance their

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

programming skills, deepen their understanding of these languages, and excel in interviews for software development positions.

ADD QUESTION:

The Record Module is a vital component of our system, facilitating the seamless recording and storage of users' video responses to the dynamically generated interview questions. Integrated with the Question Generation Module, this module ensures a smooth transition from question generation to response recording.When a question is generated, the Record Module triggers the opening of the camera interface, allowing users to record their responses in real-time.

USER DATA:

This seamless integration of question generation and response recording streamlines the interview practice process, enabling users to focus on delivering their responses effectively without interruptions

USER FEEDBACK:

The Sentiment Analysis Module is a crucial component of our system, designed to analyze and interpret the emotional states of users during their video responses to interview questions. Leveraging state-of-the-art sentiment analysis algorithms and techniques.

CONCLUSION:

It represents a significant advancement in the realm of job interview preparation, offering a multifaceted platform that leverages cutting-edge technologies to empower users with personalized practice and data-driven insights. Through modules such as Resume Parsing, Question Generation, Record, and Sentiment Analysis, we have created a comprehensive system that addresses key challenges faced by job seekers in today's competitive job market. By extracting skills from resumes, generating tailored interview questions, facilitating video response recording, and analysing emotional states, our platform provides users with a holistic and immersive preparation experience. Moreover, our project not only enhances users' interview skills but also fosters their emotional intelligence and confidence, crucial factors in interview success. By offering personalized feedback, targeted recommendations, and realistic interview simulations, we aim to equip users with the tools and knowledge needed to excel in their job interviews with poise and assurance.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE:

RESULT ANALYSIS AND REPORTING SYSTEM

TEAM MEMBERS:

Manisha.M

Paritosh Biswas

Sharon.M.Thankachen

Sinduja.M

ABSTRACT:

The main aim of this system is to develop the web application software to process the student's marks and analyze the results. We are able to see the individual candidate's results separately. Student result analysis system has been designed to carry out the mark analysis process in an educational institution. The results of respective departments can be efficiently computed without much of manual involvement. Given the continuous rise in student population, tertiary institutions calculate examination result of students with the help of computer programs. Analysis of student's information and their academic record is as important as examination result computation. This application helps to the department staffs and also students to know the student's academic performance in the examinations.

MODULES:

LOGIN MODULE

STUDENT LOGIN:

The Student Login interface provides authenticated access for students to the EDUCNT system. It ensures secure authentication and authorization mechanisms to safeguard student data and system integrity. Key features of the Student Login include:

USERNAME AND PASSWORD AUTHENTICATION:

Students authenticate themselves using a unique username and password combination.

FORGOT PASSWORD FUNCTIONALITY:

Provision for resetting the password in case students forget their login credentials.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech.
Ariyur, Puducherry- 605 102.

SECURITY MEASURES:

Implementation of security measures such as encryption toprotect sensitive student information.

STUDENT DASHBOARD OVERVIEW:

STUDENT VIEW:

Once logged in, students are presented with a comprehensive dashboard that provides anoverview of various aspects related to their academic journey and campus life. The Student Dashboard may include the following features:

ACADEMIC INFORMATION:

Overview of enrolled courses, timetable, grades.

MARK LIST INFORMATION

Overview of semester results i.c.CGPA.GPAetc.

FACULTY/HOD LOGIN

The Faculty Login interface enables authorized faculty members to access the system with specific privilege tailored to their roles and responsibilities.

CONCLUSION:

The goal of the system is achieved and difficulties are solved and are integrated with College Management System (EDUCNT). The project is built such that it is user friendly. Analysis of the scoring system it shows by the grade wise result of individual subject and final result also display grade wise. Depending on its range of marks. The project can be easily used in college for college result analysis of student. It reduces time which required for manual calculation. This system helps to calculate result fast so it optimizes the manpower. This result analysis application is useful for the control section to maintain the student's marks and analyse the academic performances. This application allows the control department admin to analyse the academic performance of the students and allows to print /download into excel sheet the student details, subject details, marks details and marks statements.

Dr.N BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE:

CAMPUS INTERVIEW MANAGEMENT PORTAL

TEAM MEMBERS:

Hritika Roy

Manoj Kumar.P

Satish.M

Sneha Lakra

ABSTRACT:

It represents the development and implementation of a web application designed to revolutionize college resource management.In response to the challenges posed by inefficient resource tracking and maintenance reporting systems, the proposed solution offers acentralized platform with intuitive user interface for accessing information and reporting maintenance issues. Leveraging real-time updates and notifications, the web application aims to optimize campus efficiency by streamlining resource management processes. Through a comprehensive evaluation, including testing methodologies and user feedback, the effectiveness of the system is assessed. The results demonstrate the potential of the web application to enhance operational efficiency and create a more productive campus environment.

CONCLUSION:

The web application for college resource management offers a centralized platform for optimizing operational efficiency and enhancing user experience within the educational institution. With intuitive navigation, real-time availability tracking, and robust features such as reservation and maintenance reporting, the application streamlines administrative processes and empowers users to make informed decisions. Ongoing support and maintenance efforts will ensure continuous improvement to meet evolving needs, ultimately contributing to the institution's success.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

2022-2023(CAYm2)

Project Title	Duration	Funding Agency	Amount
Hotel Management System	2 months	Food kraft	16000
Purchase Manager	3 months	Ajeeth Engineering	12000
A Detective Model For Object And Person Detection Using Deep Learning Algorithm	5 months	Indirani College of Nursing	25000
Fingerprint Voting System	3 months	Sri Venkateshwaraa College of Physiotherapy	35000

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

2022-23

TITLE:

HOTEL MANAGEMENT SYSTEM

TEAM MEMBERS:

Ajay

Thiruvarasan

Shiyam

ABSTRACT:

The Hotel Management System (HMS) is a software application designed to streamline hotel operations, including room booking, customer check-in/check-out, billing, and inventory management. It provides an efficient and user-friendly interface for hotel staff to manage reservations, customer data, housekeeping, and financial transactions. By automating routine tasks, the system reduces manual errors, enhances operational efficiency, and improves customer satisfaction. The HMS integrates various modules such as guest management, room allocation, payment processing, and reporting to ensure smooth hotel administration.

MODULE:

1. **USER MANAGEMENT MODULE**

Handles different user roles such as Admin, Receptionist, and Customer.Ensures secure authentication and access control.

2. **ROOM BOOKING & RESERVATION MODULE**

Allows customers to book rooms online or through the front desk.Displays room availability in real-time. Generates booking confirmations and invoices.

3. **CUSTOMER MANAGEMENT MODULE**

Stores guest details including personal information and booking history.Enables check-in and check-out processes.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

4. **BILLING & PAYMENT MODULE**

Manages customer invoices, room rates, and additional service charges. Supports multiple payment methods like credit/debit cards, UPI, and cash.

5. **HOUSEKEEPING & MAINTENANCE MODULE**

Tracks room cleanliness and maintenance requests. Assigns housekeeping staff to specific rooms.

6. **INVENTORY MANAGEMENT MODULE**

Monitors hotel resources such as linens, toiletries, and food supplies. Sends alerts when stock levels are low.

7. **REPORTS & ANALYTICS MODULE**

Generates reports on occupancy rates, revenue, and customer feedback. Helps in business decision-making and performance evaluation.

CONCLUSION:

The Hotel Management System significantly enhances the efficiency of hotel operations by automating key tasks such as reservations, billing, and customer management. It ensures accurate record-keeping, minimizes human errors, and improves the overall guest experience. By integrating various functional modules, the system optimizes hotel resources and increases profitability. The implementation of HMS contributes to a more organized and customer-friendly hospitality service, making it an essential tool for modern hotel businesses.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE:

PURCHASE MANAGER SYSTEM

TEAM MEMBERS:

Ajay

Thiruvarasan

Shiyam

ABSTRACT:

The Purchase Manager System is a software application designed to streamline and automate the procurement process in an organization. It helps businesses manage purchasing activities, supplier interactions, inventory levels, and financial transactions efficiently. The system ensures that procurement processes are optimized, reducing delays, improving cost management, and enhancing supplier relationships.

MODULE:

USER MANAGEMENT MODULE

Defines roles such as Purchase Manager, Procurement Officer, and Supplier. Implements authentication and access control.

SUPPLIER MANAGEMENT MODULE

Maintains supplier details, contact information, and ratings. Enables supplier performance evaluation.

PURCHASE ORDER MANAGEMENT MODULE

Automates the creation, approval, and tracking of purchase orders (POs).Sends notifications for order status updates.

CONCLUSION:

The Purchase Manager System enhances the efficiency of procurement operations by automating workflows, improving supplier communication, and optimizing inventory control. It minimizes errors, reduces procurement costs, and ensures timely availability of goods and services. With advanced reporting and analytics, businesses can make strategic purchasing decisions, ensuring operational continuity and financial efficiency. Implementing this system contributes to a more streamlined and cost-effective procurement process.

TITLE:

A DETECTIVE MODEL FOR OBJECT AND PERSON DETECTION USING DEEP LEARNING ALGORITHM

TEAM MEMBERS:

Shakthi Vignesh.S

Ajay Khanna.V

Sobith Raji.K

Syed Ibrahim.K

ABSTRACT:

In our day to day life most of the organizations, institutions and research centers are using REAL TIME FACE ATTENDANCE for identify and verify a person using the person's facial features and automatically mark attendance. The 3-d sensors were used by three dimensional face recognition techniques in order to capture information about the shape of face. The distinctive features on the surface of face such as the contour of eye sockets, nose and chin are identified using the information obtained from 3-D sensors. But the major issues that we are facing that it takes more time to verify and mark the attendance and the device is capable of recognizing only one person's identity in an instance. With the technology, the system not only recognizes the user's face but can also store the recognized user data in a database. This will make it easier for college management to process attendance data for recognized or unrecognized visitors.

MODULE:

The camera module captures the video feed or images.The YOLOv5 face detection component processes the input frames or images and detects faces in real-time using the YOLOv5 architectureThe face recognition component uses deep learning techniques to match the detected faces against known faces stored in a database to identify the individuals. The attendance database stores the attendance records of recognized individuals. The attendance logging component maintains a log of the attendance records, including relevant information such as date, time, and identities. The attendance records can be accessed or used for further processing, reporting, or integration with other system as required.

CAMERA MODULE:

This component captures the live video feed or images of individuals YOLOv5 Face Detection (Deep Learning). This component uses the YOLOv5 deep learning algorithm to perform real-time face detection and localization within the input images or video frames.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

FACE RECOGNITION:

This component employs deep learning techniques, such as CNNs or Siamese networks, to recognizes and identifies individual faces based on their unique features or embeddings.

ATTENDANCE DATABASE:

This component stores the records of individuals attendance, typically in a structures database or file system.

ATTENDANCE LOGGING:

This component manages the logging and storage of attendance records such as date, time, and identify of individual present.

CONCLUSION:

The web application for college resource management offers a centralized platform for optimizing operational efficiency and enhancing user experience within the educational institution. With intuitive navigation, real-time availability tracking, and robust features such as reservation and maintenance reporting, the application streamlines administrative processes and empowers users to make informed decisions. Ongoing support and maintenance efforts will ensure continuous improvement to meet evolving needs, ultimately contributing to the institution's success.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE:

FINGERPRINT VOTING SYSTEM

TEAM MEMBERS:

Gunalan.A

Praveen.I

Thirumoorthy.E

Praveen.M

ABSTRACT:

In a democratic country, like India voting is an important way where the citizen can cast their vote. Usually voting is done by casting their vote in polling booth. As the technology increases, nowadays electronic voting machine is used for casting vote. This paper is about an lot based voting machine with fingerprint verification. The main aim of this project is to make voting secure using fingerprint verification and also to reduce malpractices. The details of the voter along with their fingerprint in stored in database. If the fingerprint matches with the stored fingerprint, the system checks the aadhar number of the user and if authenticated, it checks if multiple votes have been cast. If the fingerprint matching is not correct "Matching failed" message will be displayed and if aadhar number is not correct, then "Aadhar not match" message will be displayed. Voter can enter his/her native place and vote for the corresponding candidate using thing speak and the result can be obtained using the same. The Arduino Uno is the controller used in this project. Fingerprint is used to authenticate the user. There is at least a slight difference between the fingerprints of each person. When a malpractice occurs, "Already voted message will be displayed. The arduino IDE is used for programming the board and cloud is used to display ballot card and to store the result. System provides an alert on malpractice and only an authorized voter can cast the vote. This project safeguards the citizen's right to vote and guarantee fair election.

MODULE:

1. FEATURRES

This module enables the user and admin to login to the system by entering id and password. Used to link voter id & aadhar verification id

2. REGISTRATION

This module the admin will verify the user and register the user who will vote. Registration eligibility age will be more then 18or equal to 18 Under age will be not ready to register the voter registration.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

3. FINGER PRINT VERIFICATION

The authenticated user can vote for the candidate for one time for a particular election. Once the fingerprint will be entered to the database and another same type of fingerprint will not be entered. If the fingerprint in verified the only the candidate will be ready to vote. Otherwise the finger print is not ready to verify that candidate will not ready to vote.

4. NEW CANDIDATE

Admin will add the number of candidates nominated for Election when ever new election is announced. If the new candidate will be entered the process of the work in first to last the feature to enter our data in database.

5. RESULT

Admin and user can view the election result by using the election id once the election results are out. Finally, the candidate will entered our database once it will be entered.

CONCLUSION:

Fingerprint identification (OV7670) based electronic voting machine (EVM) with fingerprint module overcomes the challenges of wired electronic voting. Finger print module is to authenticate the voters. In this paper the system is constructed with microcontroller, Computer RS232 cable, OV7670 tag, fingerprint module and buzzer alarm. Dishonest voting will beavoided if the government uses the biometric based system. The details of all voters with theirfingerprint will be stored in the database. Database is kept in microcontroller. Microcontroller verifies the voter by comparing the database during polling. If a person with OV7670 comes for second time voting, immediately the buzzer gives sound. The OV7670 base EVM will reduce time consumption. When compared to the existing voting system, the system in this paper is expected to be fast and reliable.

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

2021-2022(CAYm3)

Project Title	Duration	Funding Agency	Amount
Vaccination App	4 months	Sri Venkateshwaraa Medical College Hospital and Research Centre	20000
Connect	5 months	Sri Venkateshwaraa College of physiotherapy	25000

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

2021-2022

TITLE:

VACCINATION APP

TEAM MEMBERS:

Barath.R

Harikrishnan.B

Prathap.V

Thamizharasan.D

ABSTRACT:

Our project aims to develop an Immunization Vaccine Schedule and Notification System tailored for healthcare workers. The system will facilitate the monitoring and notification of upcoming vaccine doses while maintaining comprehensive vaccination records for workers across various departments. It will feature different access levels for nurses, HR personnel, department heads (HODs), and individual workers, each with specific functionalities to ensure efficient management and compliance. Nurses will oversee form filling, vaccine administration, and record monitoring, while HRs will have access to all user records and vaccination schedules. HODs will maintain department-specific vaccination records, and workers will be able to view their vaccination details and upcoming doses. This system will enhance vaccination management, ensuring timely immunization and promoting employee health and safety. Immunization Vaccine Schedule for Hospital Workers Notification System, implemented using ERP technology and modern web development tools such as React, Redux, Express, and Firebase.

MODULE:

The Immunization Vaccine Schedule for Healthcare Workers Notification System consists of several modules, each serving a specific function within the system.

THE USER MANAGEMENT MODULE

The User Management Module serves a crucial purpose within the Immunization Vaccine Schedule for Healthcare Workers Notification System, facilitating various functions related to user accounts and access control. Here are the detailed purposes of the User Management Module:

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

USER REGISTRATION:

Allows individuals to create accounts within the system.Collects necessary information from users, such as name, contact details, department, and role within the healthcare.

AUTHENTICATION:

Ensures secure access to the system by verifying the identity of users.Requires users to provide valid credentials (e.g., username and password) to log in to their accounts

PROFILE MANAGEMENT:

Allows users to view and update their personal information stored in the system.Enables users to modify contact details, change passwords, and update other relevant information.

ACCESS CONTROL:

Manages user access levels and permissions within the system. Defines different user roles (e.g., nurses, HR personnel, HODs, individual workers) and assigns appropriate access privileges to each role.Controls access to specific functionalities and data based on user roles, ensuring that users can only interact with relevant features and information.

ROLE-BASED ACCESS CONTROL (RBAC):

Implements RBAC principles to enforce least privilege access. Assigns roles to users based on their responsibilities and authority within the healthcare hierarchy. Restricts access to sensitive functionalities and data to authorized users only, minimizing the risk of unauthorized access and data breaches.

USER ADMINISTRATION:

Enables administrators to manage user accounts and permissions within the system. Allows administrators to create, modify, and deactivate user accounts as needed.

AUDIT TRAIL:

Maintains an audit trail of user activities within the system.Records user login attempts, account modifications, and other relevant actions for security and compliance purposes. Enables administrators to track user behavior and detect any unauthorized or suspicious activities.

PASSWORD MANAGEMENT:

Implements password policies to ensure strong and secure user passwords. Enforces password complexity requirements, expiration periods, and account lockout policies to enhance system security. Provides mechanisms for users to reset forgotten passwords securely.

Dr.N.BALAJI, B.E., M.E., Ph.D
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

CONCLUSION:

The Immunization Vaccine Schedule for Healthcare Workers Notification System provides a robust and efficient platform for managing vaccination records and ensuring timely doses for healthcare workers. With distinct access levels for nurses, HRs HODs, and workers, the system facilitates seamless coordination and communication. The automated notification system ensures that workers are alerted about upcoming doses, promoting adherence to immunization schedules. This project contributes to a safer and healthier workplace by streamlining the vaccination process and maintaining accurate records, ultimately supporting the well-being of healthcare professionals.

Dr.N.BALAJI, B.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

TITLE:

CONNECT

TEAM MEMBERS

Ranjan . S

Suriya.K

Vignesh.V

ABSTRACT:

Tech Place is a mobile and web application designed to help job seekers and students prepare for interviews and aptitude tests efficiently. The platform provides a comprehensive collection of mock tests, company-specific interview questions, and answers, enabling users to assess their skills and improve their performance. Tech Place covers various topics, including technical subjects, logical reasoning, quantitative aptitude, and HR interview questions. The app offers a structured learning experience with personalized practice tests, progresstracking, and expert-curated solutions. By integrating an intuitive interface and real-time performance analytics, Tech Place ensures that users gain the confidence and knowledge required to excel in job interviews and placement exams.

MODULE:

USER AUTHENTICATION & PROFILE MANAGEMENT

Secure login with email, phone, or social media.Personalized dashboards to track progress and history.

APTITUDE TEST & MOCK EXAM MODULE

Offers topic-wise and full-length aptitude tests. Provides instant results, performance analysis, and solutions.

PROGRESS TRACKING & ANALYTICS

Detailed reports on performance trends and improvement areas.AI-based recommendations for personalized learning.

Dr.N.BALAJI, M.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

CONCLUSION:

Tech Place serves as an all-in-one solution for interview preparation and aptitude assessment, helping candidates practice, analyze, and improve their skills. The app's diverse set of modules ensures users get a structured and engaging learning experience. With real-time performance tracking, expert guidance, and a vast database of company-specific questions, Tech Place increases job seekers' chances of success in campus placements, competitive exams, and corporate interviews. Its user-friendly design and interactive features make it a valuable tool for career advancement.