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SESSION 2022-2023
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S.NO	PROJECT OF THE VERY FIRST GROUP OF EACH SEMESTER OF PRGORGAM	COURSE CODE (if any)
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3	AWS PROJECT TRAVELLING AGENCY (GHUMO INDIA)	B.TECH(IT)


Director
R.D. Engineering College
Duhai, Ghaziabad

**Microbial Consortium for Sewage Waste Water
Treatment**

A

Project Report Submitted

*in the Partial Fulfillment of the Requirements
for the award of*

Bachelor of Technology

in

CIVIL ENGINEERING

by

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**R.D. ENGINEERING COLLEGE, TECHNICAL CAMPUS,
GHAZIABAD**

to the



**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY
LUCKNOW (UP), INDIA**

MAY-2023


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DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

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Acknowledgment

It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B.Tech Final Year. We owe special debt of gratitude to our guide Dr. Pankaj Singh, Department of Civil, R.D. Engineering College, Ghaziabad for his constant support and guidance throughout the course of our work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day.

We also take the opportunity to acknowledge the contribution of Prof. Mohd. Vakil, Department of Civil, R.D. Engineering College, Ghaziabad, for his full support and assistance during the development of the project.

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ABSTRACT

Sewage wastewater treatment is a critical process to ensure the removal of harmful **contaminants** and the protection of public health and the environment. Traditional treatment **methods** often involve the use of physical and chemical processes, which can be costly and **environmentally unsustainable**. In recent years, microbial consortia have emerged as a **promising alternative** for sewage wastewater treatment due to their ability to efficiently **degrade organic pollutants** and remove various contaminants.

This abstract presents an overview of the application of microbial consortia in **sewage** wastewater treatment. Microbial consortia are complex communities of **microorganisms** that work synergistically to enhance treatment efficiency and resilience. These **consortia** consist of diverse bacterial, fungal, and protozoan species, each contributing specific metabolic capabilities to the overall treatment process.

The microbial consortium-based sewage wastewater treatment systems leverage the metabolic versatility of the constituent organisms, allowing for the degradation of a wide range of **organic pollutants**, including carbohydrates, proteins, lipids, and recalcitrant compounds. **The consortium members** engage in various biological processes such as aerobic and anaerobic **degradation**, nitrification, denitrification, and phosphate removal, among others. These **processes** collectively result in the removal of organic matter, nutrients, and pathogens from the **wastewater**, significantly improving its quality.

The use of microbial consortia in sewage wastewater treatment offers several **advantages** over conventional methods. Firstly, it reduces the reliance on energy-intensive **processes** and chemical additives, resulting in a more sustainable and cost-effective treatment **approach**. Additionally, microbial consortia exhibit high adaptability to fluctuating **environmental conditions**, ensuring system stability and performance under varying load and **composition** of the incoming wastewater.

However, challenges remain in the implementation of microbial consortium-based **treatment systems**. **Optimization** of the consortium composition, nutrient supplementation, and **process control** are crucial for achieving consistent and efficient treatment performance. The **influence of operational parameters**, such as temperature, pH, and hydraulic retention time, on **the consortium's functionality** also requires careful consideration.




Director
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In conclusion, microbial consortium-based sewage wastewater treatment shows great promise **as an** innovative and sustainable approach. Further research and development are needed to **improve** the understanding of microbial interactions, optimize treatment processes, and address **operational** challenges. With continued advancements, microbial consortia have the potential to **revolutionize** sewage wastewater treatment, contributing to the preservation of water resources **and the** protection of human and environmental health.


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**Project Report
ON
VISITOR APP**

**Submitted to
MR. ASHUTOSH PRADHAN**

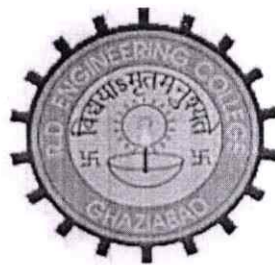


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**Under the Guidance of
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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2022 – 2023**


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DECLARATION

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Acknowledgment

It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B.Tech Final Year. We owe special debt of gratitude to our guide Prof. Ashutosh Pradhan, Department of CSE, R.D. Engineering College, Ghaziabad for his constant support and guidance throughout the course of our work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day. We also take the opportunity to acknowledge the contribution of Prof. Mohd. Vakil, Department of IT, R.D. Engineering College, Ghaziabad, for his full support and assistance during the development of the project. We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of our project. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.

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Abstract

The era of mobile technology opens the windows to the Mobile application. The websites are vanishing and mobile phones are emerging. It is the time to change from conventional methods to applications, which has become a part of our daily routine. Our project is a Mobile Application named, "**Visitor App - Application for storing the data of visitor**".

Mobile technology is one of the vast technologies spread between people. The main motivation behind mobile technology is to connect people with each other. The proposed system will introduce and improve the visitor experience and security of the organization by providing the real-time information about who is on the premises. Additionally, this application includes a check-in feature. Visitor can enter the organization by filling the visitor form.

The main objective of this app is to solve the traditional problems such as there are many organizations and schools who are still using the conventional paper log or guest book to record the access of visitors. This manual method consumes longer time when the number of visitors is exceeded the limit. Meanwhile, an increasing number of visitors indicate that the security issues should be concern in the organization or school. Visitor App contribute a good solution to solve the problems exist in the conventional method.

In today's digital world, visitor management has become an integral part of every organization. Traditional methods of managing visitors have become outdated, time-consuming and lack security. This research paper proposes the development of a Visitor App as a SaaS(Software as a Service) application, that can manage visitors effectively, while ensuring their safety and security. The visitor app will allow visitors to pre-register their visit before entering the organization.

Visitor apps have become an essential tool for businesses to provide seamless and personalized experiences to their visitors. Developing a visitor app requires a systematic and efficient approach to ensure that the app meets the requirements of the users. Agile methodology has gained popularity in software development due to its iterative and incremental approach, which allows for continuous feedback and improvement. This research paper presents an agile methodology for visitor app development, which consists of four phases: planning, development, testing, and deployment. The methodology emphasizes collaboration, flexibility, and responsiveness to changing requirements, which are crucial for the success of visitor app development.

Overall, a visitor app can improve the visitor experience, increase security, and provide valuable data insights to organizations.


Director
R.D. Engineer
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**Project Report
ON
AWS PROJECT TRAVELLING AGENCY (GHUMO INDIA)**

**Submitted to
MR. MOHD. VAKIL**



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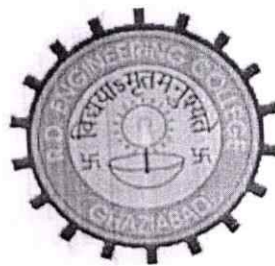
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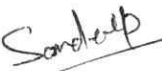


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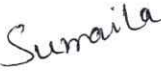
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Abstract

This project "GHUMO INDIA" is used to automate all processes of the travel and tourism, which deals with creation, booking, confirmation and user details.

This project is designed by HTML-PHP as front end and Microsoft SQL Server 2008 as backend, which works in any type of browser. The coding languages used are HTML and PHP. Travel and tourism management system is used to book a tour from anywhere in the world by a single dynamic website which will help the user to know all about the places and tour details in a single website.

The admin can add packages to the website from a certain travel agents and hotels by creating a tour page. Then the users can sign in and book each project, they can be confirmed by admin in their manage booking page. The user can see the confirmation in their my booking page. It is an easiest platform for all the travelers, which can be easily booked and know the all details.

Tourism Management System is a complete tourist fully integrated tourism website. The website covers all the areas required for and including tourism. This project is developed to manage the tourists in the tourism management website. The main modules in this project are login, tourist management, complaints and reports.


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