

FINAL YEAR PROJECT REPORT

On

"Development of School Website and Online Admission Management System"

For

GYAN GANGA PUBLIC SCHOOL, BHADASI

Submitted in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF COMPUTER APPLICATION (BCA) 6th Semester
(2019 - 2022)



Submitted to

L. N. Mishra Institute of Economic Development and Social Change
Jawaharlal Nehru Marg, Bailey Road, Patna - 800001

Bihar Government Autonomous Institute Affiliated To

ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Approved By AICTE & Recognized And Aided By The H.R.D. Govt. Of India.

UNDER THE GUIDANCE OF :

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Session : 2019 - 2022

DECLARATION

I **Anish Kumar Sinha**, Roll No. **19609**, **BCA (6th Semester)**, **Lalit Narayan Mishra Institute of Economic Development and Social Change, Patna**. Hereby declare that the project report entitled **“Development of School Website and Online Admission Management System”** which is submitted in partial fulfillment of the requirement for the award of the degree of **Bachelor of Computer Application** to **ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA**

I also declare that this project is an authentic record of my original work carried out under the guidance of **Mr. Santosh Kumar Jha**, Asst. Professor, Department of Computer Application, LNMI, PATNA and has not been submitted to any other University or Institution for the award of any degree, or personal favour what so ever. All the details and analysis provided in the report hold true to the best of my knowledge.

(Signature of Student)

Anish Kumar Sinha

ACKNOWLEDGEMENT

First of all, With immense pleasure, we would like to express our deep sense of gratitude to our beloved Director **Dr. S. Siddharth, I.A.S.,** Lalit Narayan Mishra Institute of Economic Development and Social Change, Patna for the valuable guidance and for permitting us to carry out this project.

With Candor and Pleasure, We take opportunity to express our sincere thanks and obligation to our esteemed Project Guide or Sir **Mr. Santosh Kumar Jha,** Asst. Professor, LNMI, Patna. It is because of his able and mature guidance, insights, advises, co-operation, suggestions, keen interest and thorough encouragement extended throughout the period of project work without which it would not be possible for us to complete our project.

We are very grateful to all the faculty members of our college for their precious time and untiring effort spent over our training for acquainting us with the nuances of the entailing work and thanks for the invaluable time they spent training us in the intricacies of the job.

We extend our sincere gratitude towards Principal **Soni Kumari** and the people of **Gyan Ganga Public School, Bhadasi,** for providing the opportunity and resources to work on this project. It has been of great learning to be on the training and doing the project simultaneously, which enriched our knowledge and developed our outlook for becoming a better professional.

We take the opportunity to thank our team members (**Anish Kumar Sinha, Sweta Kumari, Sonu Kumar Kushwaha and Nihal Priyadarshi**) who contributed towards the successful completion of this project.

It is our pleasant duty to thank all the concerned people who have directly or indirectly extended their helping hand during the course of this project report.

Above all, We gratefully acknowledge the constant support, encouragement and patience of our families and friends during the entire duration of our project training. Hopefully, This project would add as an asset to our academic profile. **Thank You!**

Dated: 14th of May 2022

Signature

With Gratitude,

Anish Kumar Sinha

Roll No. : 19609

BCA (6th Semester)

Reg. No. : 19303333008

Session : 2019 - 2022

CERTIFICATE OF ORIGINALITY

I **Anish Kumar Sinha**, Roll No. **19609**, **BCA (6th Semester)**, **Lalit Narayan Mishra Institute of Economic Development and Social Change, Patna**. Hereby declare that the project entitled **"Development of School Website and Online Admission Management System"** submitted to the **Department of Computer Application, LNMI, Patna** in partial fulfillment of the requirement for the award of the degree of **Bachelor of Computer Application** in session **2019 - 2022** is an authentic record of my original work carried out under the guidance of **Mr. Santosh Kumar Jha**, **Asst. Professor, Department of Computer Application, LNMI, Patna** and that the Project has not previously formed the basis for the award of any other degree.

Place : PATNA

Date : 14th of May 2022

(Signature of Student)

Anish Kumar Sinha

PROJECT TITLE

"Development of School Website and Online Admission Management System"
For



GYAN GANGA PUBLIC SCHOOL

Bhadasi, Arwal, Bihar (India) - 804401

CONTENTS

S No.	Topic	Page No.
1	Introduction	7
2	Objective	8
3	Scope of the Project	9
4	System Analysis : <ul style="list-style-type: none"> ● Organisation Overview ● Identification of Need ● Preliminary Investigation ● Feasibility Study 	10 - 12
5	Software Requirement Specifications (SRS) : <ul style="list-style-type: none"> ● Project Perspective ● Project Category ● Hardware and Software Requirement ● Product Functions ● Definitions, Acronyms and Abbreviations ● Constraints ● Assumptions and Dependencies ● Specific Requirements ● Software Development Life Cycle Model ● Gantt Chart/Pert Chart ● System Modules ● Data Flow Diagrams ● E-R Diagrams ● Table Structures 	13 -
6	Implementations : <ul style="list-style-type: none"> ● Codes ● User Interfaces & Designs 	
7	Testing : <ul style="list-style-type: none"> ● Testing Plan Used ● Test Reports 	
8	Maintenance	
9	Future Scope of the Project	
10	Conclusion	
11	Developers	
12	References	

1. INTRODUCTION

As the website of **Gyan Ganga Public School** (www.ggpsarwal.github.io/ggpsarwal) is online the number of students applying for the admission are increasing rapidly, it requires much effort and time to handle the admission system with man power and paperwork. So we are in need of a better system to make the process easier and serves better which could be done by **Computerized Admission Management System** that facilitates the work of the school and at the same time it must reduce the work load of the organization with expected quality. Quality in the sense, the system try to avoid the mistakes that are usually happen during the Admission Process.

The project entitled "**Development of School Website and Online Admission Management System**" is a web application and has been developed to override the problems prevailing in the practicing manual system. This web application is supported to eliminate and, in some cases, reduce the hardships faced by the existing system (manual). Moreover, the system is designed for the particular need of the school to carry out operations in a smooth and effective manner.

The system is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this web application. Thus, by this all it proves it is user-friendly. **Online Admission Management System**, as described above, can lead to error free, secure, reliable, fast and efficient management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help school in better utilization of resources.

Every school, whether big or small, has challenges to mark their online presence and to overcome and managing the information of its enrolled or passed-out students. Every school has different needs. Therefore, we have designed exclusive user interface that are adapted to school managerial and informational requirements. This is designed to assist in strategic planning, and will help admin to ensure that their school is equipped with the right level of information and details for their future goals.

2. OBJECTIVE

The project entitled “*Development of School Website and Online Admission Management System*” has been developed to help the school to mark their online presence and automate the task carried out by different people in the organisation to manage the student admission and enrollment.

The main objective of this web application is to automate the admission process without any flaws. Its basic objectives are to extend their reach to geographically scattered students, reducing time in activities, centralized data handling and paperless admission with reduced manpower. Its other factors are cost cutting and operational efficiency. Main challenges are effectively completing the admission process within the time limit and making the process easier for the students. Hence there is a prerequisite for maintaining a database, to store all the details.

2.1 Other objectives to be fulfilled:

- **Reach to geographically scattered students :**
 - One of the important objectives of this admission management system is to communicate with all the enrolled students scattered geographically.
- **Reducing time in activities :**
 - Reduce the time taken in the processing applications of students, admitting a student, verify student details, and send call letters to selected students.
- **Centralized Data-handling :**
 - Transfer the data smoothly to all the departments involved and handle the data in centralized manner.
- **Paperless admission with reduced manpower :**
 - Reduce the paperwork and manpower needed to manage admissions and enrollment and perform the administrative actions.
- **Cost Cutting :**
 - Reduce the cost involved in the admission and enrollment process.
- **Operational efficiency :**
 - Improving the quality of the process will lead to operational efficiency.

3. SCOPE OF PROJECT

- i. ***Online Admission Management System*** is to store the student admission details which would be accessed only on the registered systems.
- ii. Database is accessed and maintained by the administrator.
- iii. For each event database should be updated and should be ready to provide information to the student in no time
- iv. Students have the only access to database and not authorized to perform modification or deletion in the database.

3.1 Goals to be achieved by this project :

- a. Manage large number of student details.
- b. Manage admission details of students and send appropriate information about school events to the student account.
- c. Create student accounts and maintain the data effectively.
- d. View all the saved details of student.
- e. Create the statistical reports to facilitate the finance department needs and assist in strategic planning.
- f. Reduce the work load in the admission of students.
- g. Activities like updating, modifying and deleting records should be easier.

4. SYSTEM ANALYSIS

This section deals with the processes involved in the of requirement gathering.

4.1 Organisation Overview :

Gyan Ganga Public School is a co-educational Pre-k through 8th grade private school in *Bhadasi, Arwal* registered under *Govt. of Bihar* (Reg. No. - 15AR/PVT/2017). It was founded and established in **2007** by *D. D. Singh* (Director, GGPS) and runs under the supervision of *Soni Kumari* (Principal, GGPS) with employee strength of **50+ People** including *Teaching and No-Teaching Associates*.

4.2 Identification of Need :

As the website of *Gyan Ganga Public School* (www.ggpsarwal.github.io/ggpsarwal) is online the number of students applying for the admission are increasing rapidly, it requires much effort and time to handle the admission system with man power and paperwork. So we are in need of a better system to make the process easier and serves better which could be done by **Computerized Admission Management System** that facilitates the work of the school and at the same time it must reduce the work load of the organization with expected quality. Quality in the sense, the system try to avoid the mistakes that are usually happen during the Admission Process.

4.3 Preliminary Investigation :

In order to proceed further with the development of the project entitled **“Development of School Website and Online Admission Management System”**, Developer team (*Anish Kumar Sinha, Sweta Kumari, Sonu Kumar Kushwaha and Nihal Priyadarshi*) has done preliminary investigation through one-to-one interview with *Soni Kumari*, Principal of *Gyan Ganga Public School, Bhadasi* and gathered some basic information about the project based on the questionnaire attached in this documentation.

QUESTIONNAIRE

Q1. What is the purpose of this system?

Ans. :

Q2. Who will be the user of this system?

Ans. :

Q3. In which language system will be developed?

Ans. :

Q4. What is your immediate need?

Ans. :

Q5. What is your website requirement?

Ans. :

Q6. Deadline of the project?

Ans. :

Q7. What are the goals of your system?

Ans. :

Q8. What are the Admission Form requirements?

Ans. :

Q9. How much cost can you bear for the project infrastructures?

Ans. :

Q10. What type of User-Interface do you want for your school website?? (Decision will be based on the desired prototype)*

Ans. :

EXISTING SYSTEM

In addition to attached questionnaire, developer team has also reviewed the existing system for information purpose and as a result they found specifications mentioned below.

- **Currently, the system is totally manual and requires lot of paperwork.**
- **The manual system is slower than the computerized system.**
- **It is very time consuming and complex to maintain student records.**
- **It requires more clerical work and use of more man power.**
- **The current system is ambiguous and not user-friendly as well.**

4.4 Feasibility Study :

After analyzing flaws of existing system developer team identified and understood the need of a better system. Therefore management decides to convert manual system into electronic I.e. Computerization is required. Which could be done by ***Computerized Admission Management System*** which will make the process easier and serves better in terms it also facilitates the work of the school and at the same time it must reduce the work load of the organization with expected quality. Quality in the sense, the system try to avoid the mistakes that are usually happen during the Admission Process.

The project entitled ***“Development of School Website and Online Admission Management System”*** is a web application and has been developed to override the problems prevailing in the practicing manual system. This web application is supported to eliminate and, in some cases, reduce the hardships faced by the existing system (manual). Moreover, the system is designed for the particular need of the school to carry out operations in a smooth and effective manner.

The system is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. The information can be viewed in Graphical User Interface (GUI) such that easy to understand. No formal knowledge is needed for the user to use this web application. Thus, by this all it proves it is user-friendly. Storing and retrieval of information are so fast that many jobs can be done in respectively lesser time. ***Online Admission Management System***, as described above, can lead to error free, secure, reliable, fast, cost effective and efficient management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. This increases satisfaction level of employees. Also management can generate several reports, which will help him to plan future strategies for organisation behalf. Thus, it will help school in better utilization of resources.

Here for the “Development of School Website and Online Admission Management System”, We as team have worked on the preliminary investigation that accomplished the following objectives :

- Clarify and understand the project request.
- Determine the size of the project.
- Determine the technical and operational feasibility of alternative approaches.

Considering above criteria we also keep in mind that the requirements are clearly understood and can be presented when the clarification or verification of project request is inquired.

Signature of Developer(s)

1) **Anish Kumar Sinha**

2) **Sweta Kumari**

3) **Sonu Kumar Kushwaha**

4) **Nihal Priyadarshi**

5. SOFTWARE REQUIREMENT SPECIFICATIONS (SRS)

The purpose of this SRS document is to specify the specifications regarding functional and non-functional requirement of the system. It is intended to be a complete specification of what functionality the admission provides.

5.1 Project Perspective :

- i. Automate manual paperwork done at the time of students' admission in the school : As the main aim of the system is to reduce the manual efforts needed for Admission Process, so it automatically reduces the man power requirement to perform the entire task and improve the quality of the work.
- ii. Efficiently manage the student details (to retrieve academic details) : To perform any task, time is one of the most important factors to consider. If the system does not utilize time properly, then the entire purpose of system fails and thus the system fails to reach its goal. So time taken to process all these activities should be less but effective output.

5.2 Project Category :

Domain : Web Application

5.3 Hardware & Software Requirement :

- **Hardware Requirements :** *(Recommended)*

Processor - Intel® Core™ i3 7th Gen 2.3 GHz and above

System Architecture - 64-bit operating system, x64-based processor

RAM - 4.00 GB

HDD/SSD - 128 GB

Keyboard, Monitor, Mouse, Printer

- **Software Requirements :** *(Recommended)*

Operation System - Windows 7 or above, Mac-OS, Linux etc.

Supported Browser - Google Chrome.

- **Tools Used :** *(Recommended)*

Code Editor - Visual Studio Code

UI Designing & Prototyping Software - Figma, Adobe Xd and Adobe Illustrator.

- **Programming Languages and Frameworks Used (Front-end):** *(Recommended)*

HTML 5

CSS 3

JavaScript

Bootstrap

- **Technologies Used (Back-end) :** *(Recommended)*

Google Firebase

Continue