

DEVELOPMENT OF AN ONLINE NEWS PORTAL: NARAYANGANJ TODAY

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled “**Development of an Online News Portal: Narayanganj Today**”, submitted by **Mohammad Sagar Raihan ID: 151-15-5261** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on *date*.

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DECLARATION

I hereby declare that, this project has been done by me under the supervision of **Md. Tanvir Rahman, Senior Lecturer, Department of CSE** Daffodil International University. I also mandate that no degree or diploma has been given to either this or any part of this project somewhere else.

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List of Abbreviation

ICT-	<i>Information Communication and Technology</i>
CSS-	<i>Cascading Style Sheets</i>
PHP-	<i>Hypertext Preprocessor</i>
SQL-	<i>Structured Query Language</i>
DFD-	<i>Data-Flow diagram</i>
RAM-	<i>Random Access Memory</i>
HTML-	<i>Hyper Text Markup Language</i>
ODBC-	<i>Open Database Connectivity</i>
ERD-	<i>Entity Relationship Diagram</i>

ABSTRACT

IngeniumBD is one of Bangladesh's reputable IT companies. The project's main objective is to develop a website for the news management. The portal offers a convenient and easy view to learning or knowing the world for the largest population in the world. It is a daily that produces crowds. The idea is to send your news item with your web-based gadget, which the administrator responsible for the mass visualization in the editor panel is responsible for. The portal was created using HTML, PHP & CSS and SQL Server technology.

Chapter One

Introduction

1.1 Introduction

Now-a-days we live in age of Information Communication and Technology (ICT). We can't think a single moment without technology. We need technology help from morning to night. This is the computer technology's revolutionary time. Most of the works are web-based. That's why anyone can access a website at low cost anytime, anywhere, and we can find our expected and most updated website information. Currently, information is one of the world's most valuable resources. We've developed our project to make people aware of it.

1.2 Objective of the Study

- The objective of this project is to develop a web application for Online News Paper website that can aware the people
- The objective of this project is to provide the daily news.
- The objective of this project is to provide the breaking news.
- It makes use of various technologies to get required crime oriented information more quickly, easily, colorfully and attractively.
- To do this for more widely coverage of distribution and faster dissemination of information in a more timely manner.
- Anytime, anywhere, anyone can know about the news or information by internet at low

1.3 Development Methodology

A simple Web development life cycle will be followed. This website will be developed using the Object Oriented Technology. This would help us for the future expandability as well as increase the robustness of the website. After these modules have been incorporated this website would be very easier to add additional modules in future.

1.4 Tools

The website has been developed on the latest relational database system technology Microsoft Access and Visual Basic 6.0

Website name: Narayananj today
Front End: html, CSS, Laravel
Back End: Database Microsoft SQL

1.5 Website Process Model

The website design and development process involves numerous steps. From collecting initial information, creating our website, and finally maintaining our website to keeping it up to date and up-to-date. The exact process varies slightly from designer to developer, but the fundamentals are the same. Information Gathering

- Planning
- Design
- Development
- Testing and Delivery
- Maintenance

Chapter Two

System Analysis

2.1 Organization of the Project

In this project we have develop an Online News Paper website. It is a dynamic system. It can be maintain and changed easily because it is based on database. It includes web pages which are produced in real time. These pages include Web scripting code, such as PHP. It is fully secured from unauthorized access. In a word it can say that our Online News Paper website is a completely dynamic website [1].

To create the software, we have worked on all possible types of basic codes used for principle design based on mainly on PHP, CSS and HTML. Here we have used incremental model to create the software. We have collected all kinds of information related to this software from the customer. Actually it is one kind of Customized software products.

The project background model specially designed on the basis of certain web programming language like PHP, MYSQL, CSS etc. In following section here, we are going to give a brief description about this language in this project [1].

2.2 Programming Language [9]

PHP

- PHP stands for PHP: Hypertext Preprocessor
- PHP is a server-side scripting language, like ASP
- PHP scripts are executed on the server
- PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, Generic ODBC, etc.)
- PHP is an open source Software
- PHP is free to download and use

MYSQL

- MYSQL is a database server
- MYSQL is ideal for both small and large applications
- MYSQL supports standard SQL
- MYSQL compiles on a number of platforms
- MYSQL is free to download and use

CSS

- Cascading Style Sheets (CSS)
- Simple mechanism
- Easy for adding style (e.g., fonts, colors, spacing) to Web documents.

2.3 Development Models

There are some Software Process Models these are listed below—

- Waterfall model.
- Prototype model.

2.3.1 Water fall Model

As far as software development process models are concerned, the waterfall model is probably the oldest and best known model. As important as its role in software testing is the role of the waterfall model in software engineering. Of course, there are a number of other software process models that have been designed and implemented over the years, but what's true is that many of them (in some way or the other) are based on the waterfall model's fundamental principle. [1,2,9].

On that note, let us examine the waterfall model in detail

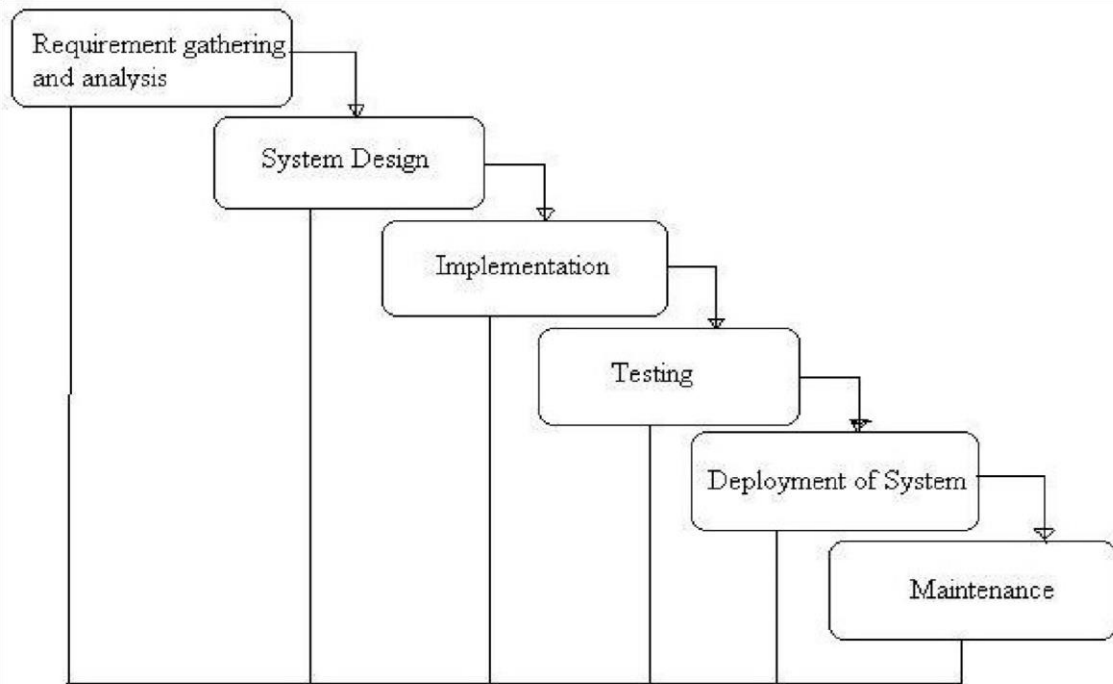


Figure 2.1: Waterfall Model

Advantages of waterfall model:

- ❖ Simple and usable to reflect.
- ❖ Easy to manage, because of the rigidity of the model – each phase has specific results and an examination process.
- ❖ Taking phases one at a time are processed and finished.
- ❖ Works well on minor projects with very well - understood requirements.

Disadvantages of waterfall model:

- ❖ When an application is at the testing stage, something that is not well thought out during the concept phase is very difficult to reverse and to change.
- ❖ Too late in the life cycle no software is produced.
- ❖ To High risk and insecurity quantities.
- ❖ Not a good model for complex projects with a focus on objects.
- ❖ There Poor model for ongoing and protracted projects.
- ❖ Not suitable for projects where there is a moderate to high risk of change in requirements.
- ❖ Up The project is short.

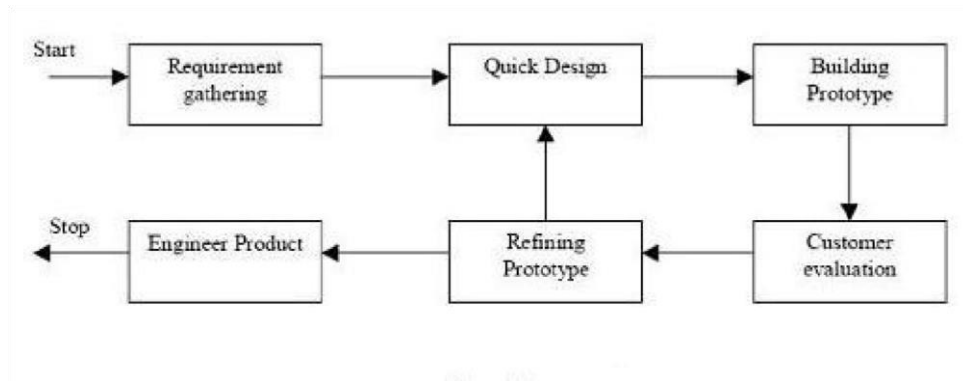


Figure 2.2: Prototype Model.

2.3.2 Prototype Model

The basic idea here is to construct a throwaway prototype to understand the requirements instead of freezing the requirements before a design or coding can proceed. This prototype is developed on the basis of the requirements currently known. The client can get an "actual feel" of the system by using this prototype, as the interactions with the prototype can allow the client to better understand the system requirements. Prototyping is an attractive idea for complicated and large systems to help determine the requirements for which there is no manual process or existing system. The prototypes are not generally complete systems and many of the details are not included in the prototype. [1,2,10].

Benefits of Prototype model:

- Although this analysis provides a working model of the system, users get a better understanding of the system that is being developed. It is possible to detect errors much earlier.
- Quicker user feedback for better solutions is available.
- Missing functionality can be easily identified to identify any confusing or difficult function.
- Validation of requirements, Quick implementation of application, incomplete but functional.

Adverse effects of Prototype model:

- Leads the implementation and repair of construction systems.
- Practically speaking, this methodology may increase the system's complexity as the system's scope may extend beyond the original plans.
- Incomplete application may cause application not to be used as the complete system has been designed.

When to use Prototype model:

- ❖ Prototype model should be used when the desired system needs to have a lot of interaction with the end users.
- ❖ Typically, online systems and web interfaces have an excessive number of interactions with end users. A system that allows easy use and requires minimal training for the end user may take sometime to be built.
- ❖ Prototyping ensures that the end users constantly work with the system and provide a feedback which is incorporated in the prototype to result in a useable system. They are excellent for designing good human computer interface systems.

2.4 Software Testing

Software testing process for running a program to detect errors in a program makes it possible to find the errors (which are presumed to occur) in a program. Because the process is destructive. We use the software testing process to develop our project [9,15].

Chapter Three

Software Planning & Design

After our departments have approved the feasibility report we tried to understand the system proposed by studying the different operations carried out with the system in detail. System analysis is the study of an existing system to determine its functioning and how it meets the requirements of the user. System analysis provides the basis for system improvements. The analysis includes a study that usually involves establishing a connection with the client and the user of the system for whom the analysis is performed. More of a thinking process, this analysis phase. At this stage the logical aspects of the system have been improved [17].

We have to consider a key question in order to develop the system, "What should be done to solve this problem? 1,2] In this phase, we studied system processes, collected operational data, understand the flow of information, identified weaknesses and developed systems for overcoming system weaknesses in order to achieve the objectives.

We have dealt with this during the analysis phase:

- ❖ Data gathering
- ❖ Data analysis

3.1 Data gathering

To complete this project, our supervisors, our respective teachers, friends, students of the department and the Internet first collected necessary data or information. It was difficult, because we have a unique system that does not have the necessary data[9]. It was also costly and took a lot of time and work. We have used certain sources to collect information:

- Documentation
&
- Onsite observations

3.1.1 Documentation

During data gathering we searched related information in Google. We found various procedures, manual, reports, create account forms, loan request form, and many other materials but all information was difficult to assess. We spend lot of time by reading manual or reports.

3.1.2 Data Flow Diagram

A data flow diagram represents the way data moves through the existing system in a short way. In the design process, we used data flow diagram. The data flow chart makes communication between us and the user easier. DFD displays the type of information to and from the system, the location from which the data is sent and to and the location of data. The information on process timing and on whether processes are running sequentially or in parallel does not appear [11].

Circle

The processes are represented by circle shows what the action take on the data- checking. A process accepts input data needed for the process to be carried out and produces data that it passes on to another part of the DFD.

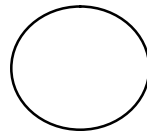


Figure 3.1: circle.

Arrow

Arrow defines direction of the data flow. It shows the direction between a data store to another data store, source to processes.

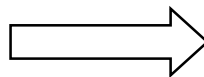


Figure 3.2: Arrow.

Square

Square indicate the source and destination of the system.



Figure 3.3: Square.

Open Rectangle

A database is a repository of data here it represented by open-ended box. This information may be stored either temporarily or permanently by admin .Data may be changed or updated.



Figure 3.4: Open Rectangle.

Data flow diagram of Online News Paper for the Admin & User:

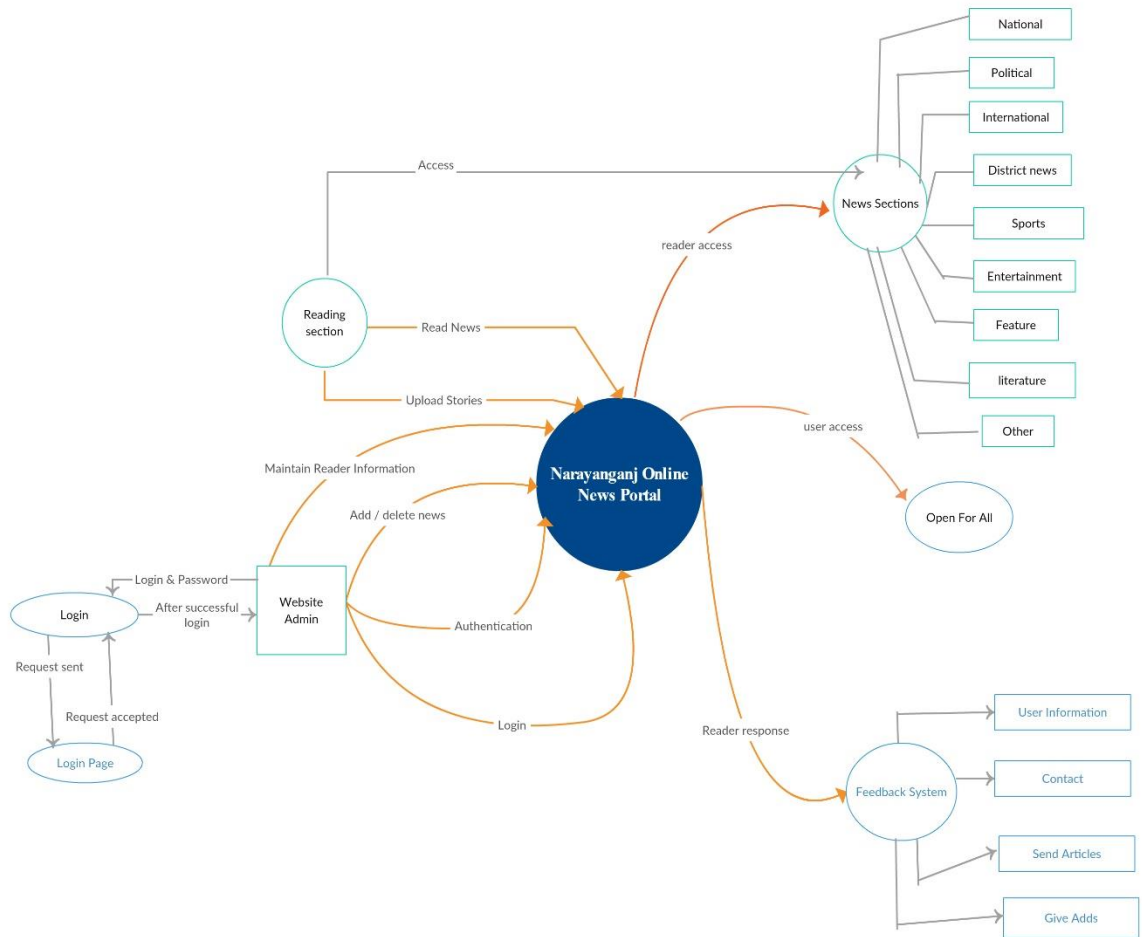


Figure 3.5: A data flow diagram of Online News Paper for the Admin & User.

❖ Sequence Diagram(Admin):

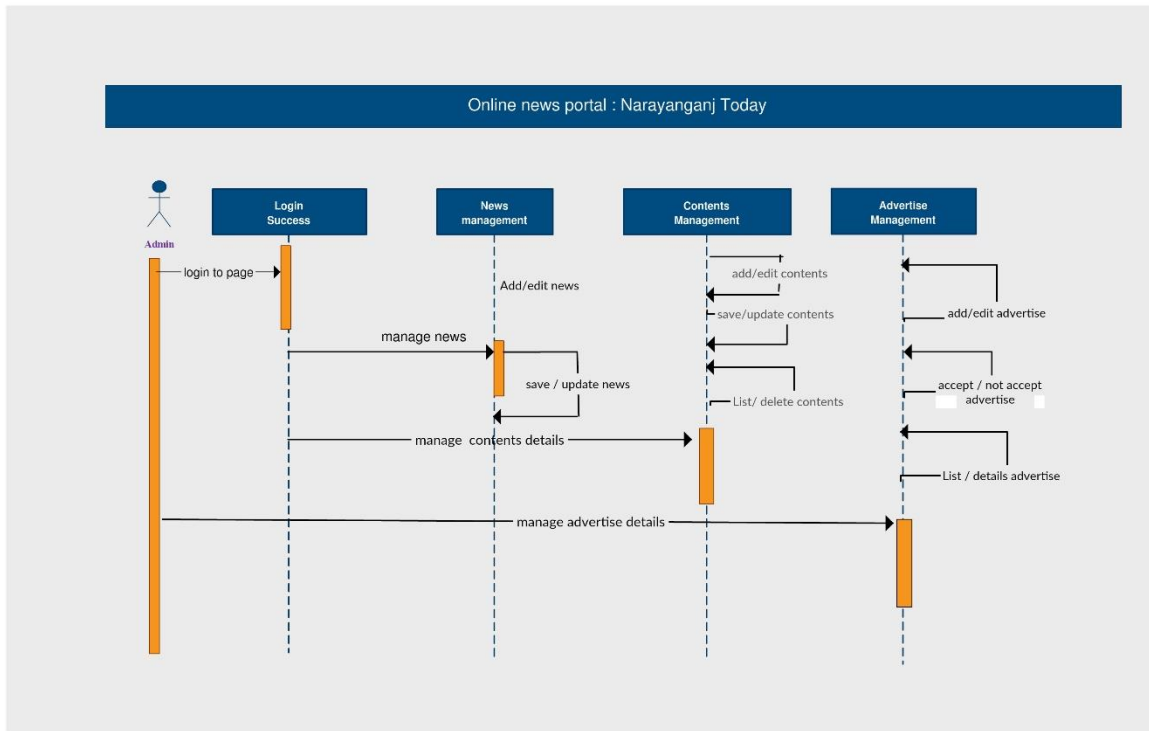


Figure 3.6: Sequence Diagram(Admin)

❖ Sequence Diagram(User):

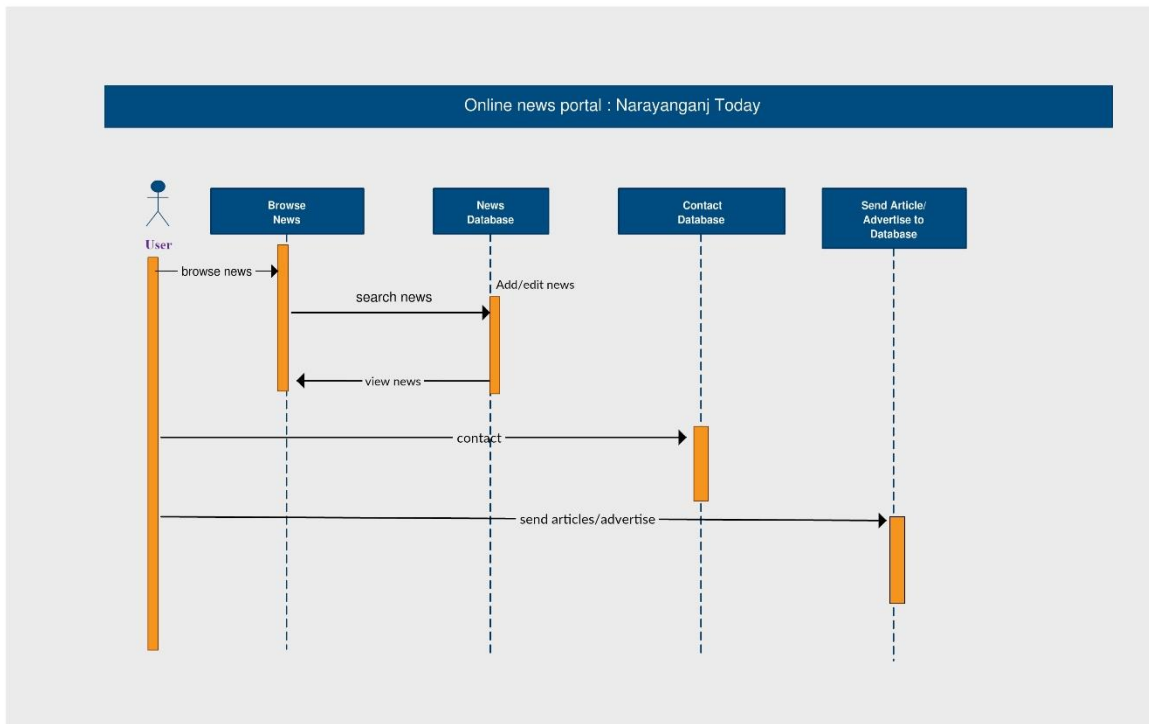


Figure 3.7: Sequence Diagram(User)

Chapter Four System Front End Design

Based on system analysis, the system is built to comply with the user requirements. We move from logical to physical aspects in system design. The requirements identified in the requirements analysis phase are converted into a system design document that accurately describes the system design and can be used in the next stage as an entry in the system development. We have to consider a key question during the design phase: "How should the problem be alleviated?"

4.1 System Design

The system design is the most creative and challenging. The system design document describes system requirements, operational environment, system and subsystem architecture, data and files and design, input formats, output layouts, human-machinery interfaces, detailed design, logical processing and external interfaces. [9].

4.1.1 Use Case Diagram

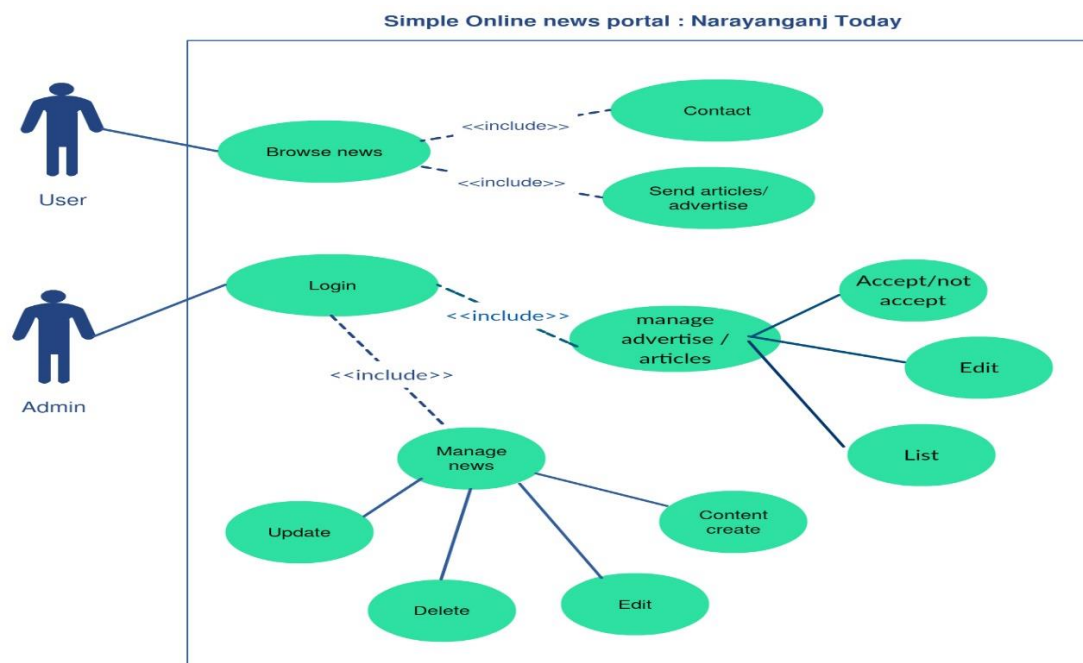


Fig 4.1.1: Use Case Diagram

4.1.2 ER-Diagram of Narayanganj Today

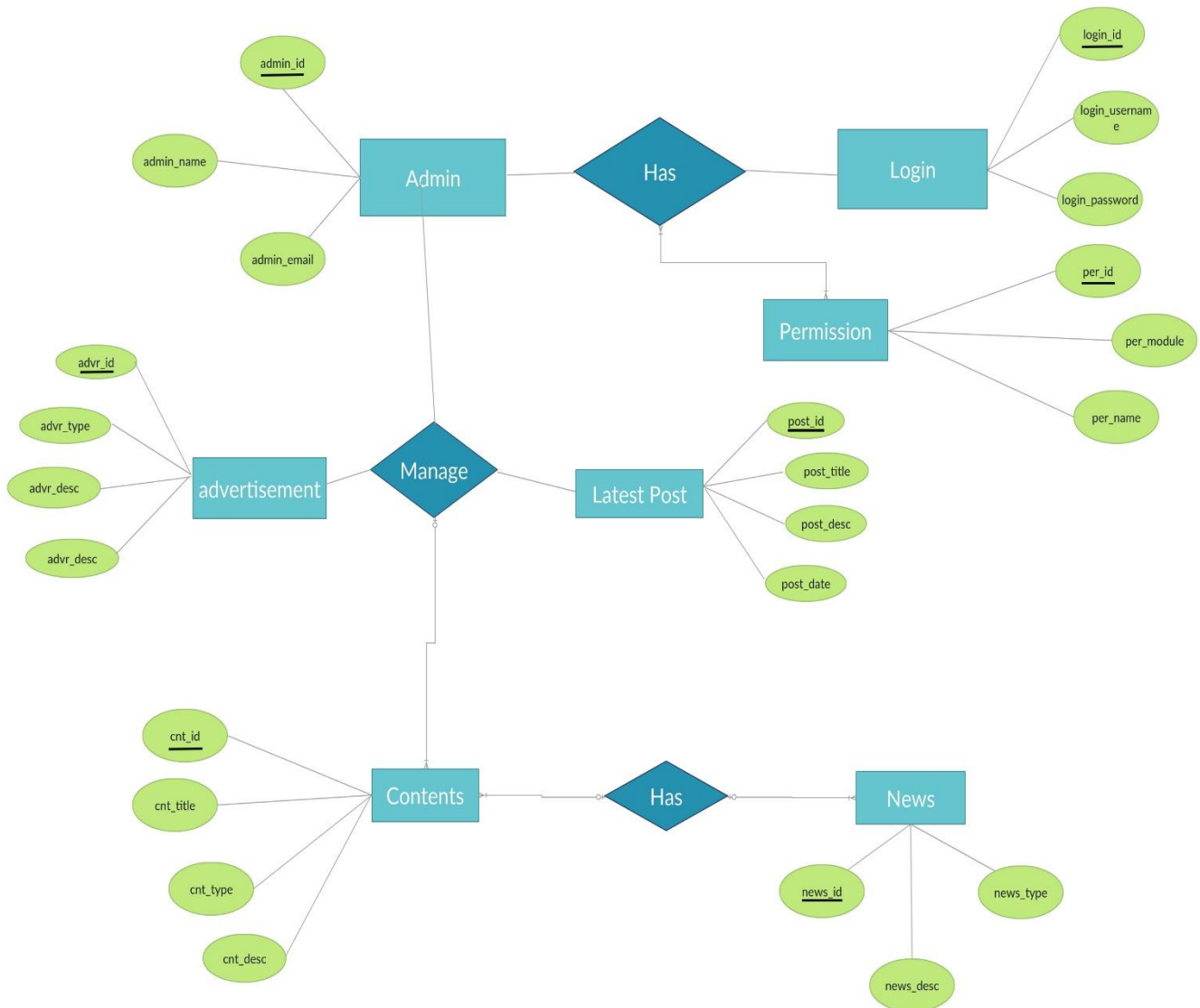


Fig 4.1.2: ER-Diagram of Narayanganj Today news portal

4.2 Before Start Deign

To make web application for Online News Paper website it is need to select a standard PC that can support XAMPP [1][2].

4.2.1 Hardware Requirements

XAMPP Software installs on a standard PC system. Minimum Hardware Requirements are as follows:

- ❖ Processor–Celeron(R)Dual–Core CPUT3100@1.90GHz 1.90 GHz;
- ❖ Installed Memory (RAM) – at least 350 MB;
- ❖ System type-32/64 bit Operating System;
- ❖ Resolution-1080/720;

4.2.2 Software requirements

➤ XAMPP

- ❖ The Apache distribution with MySQL, PHP and Perl can be easily installed in XAMPP.
- ❖ The XAMPP can be installed and used very easily - download, extracting and starting.

The distribution for Windows 2000, 2003, XP, Vista, 7, 8 and 10. This version contains: Apache, MySQL, PHP + PEAR, Perl, mod_php, mod_perl, mod_ssl , php My Admin, Webalizer, Mercury Mail Transport System for Win32 and NetWare Systems v3.32, Ming, FileZilla FTP Server, mcrypt, SQLite, and WEB-DAV + mod_auth_mysql.

- Apache 2.4.4
- MySQL 5.5.32
- PHP 5.4.16
- phpMyAdmin 4.0.4
- Strawberry Perl 5.16.3.1 Portable

Programming Language

- ❖ HTML
- ❖ CSS
- ❖ JQuery
- ❖ Raw PHP

Chapter Five

Task Project & Activities

5.1 Activities of the System Development

We divided system development phase's activities into three categories. These provide components of the program development phase and include a listing of programs required to achieve the system targets and complete documentation. We have 3 types of specifications in order to complete our system development. [10].

These are:

- User specification.
- Admin specification.
- Files and database.

5.1.1 User Specification

The proposed systems are physically developed in this stage. User specification or output specification provides the proposed system goals. User specification stage fulfilled the user need by preparing building blocks of the system. User specifications are developed by based on output design. It provides total outlook of the system and offer various features for user [4,18].

Image of Home Page:



Figure. 5.1: Home Page [5].

Image Online News Paper Political Page [16]:

জাতীয় রাজনীতি আন্তর্জাতিক জেলাজুড়ে খেলাধুলা বিনোদন ফিচার সাহিত্য কলাম অন্যান্য

রাজনীতি

আমাকে দুইবার মন্ত্রী হইতে বলেছিলো আমি হই নাই : শামীম ওসমান

হয়তো বা আমি আর নির্বাচনই করবো না। আমি গতানুগতিক এই রাজনীতি পছন্দ করতে পারছি না। আমাকে অনেকেই বলেন মিনিস্টার হন নাই কেন? আমাকে দুইবার মন্ত্রী হইতে বলেছিলো আমি হই নাই। আমি স্বাধীনচেতা মানুষ, খাচার ভেতরে থাকা পাখি হইতে চাই না।

কাউকে ছাড় দেয়া হবে না : শামীম ওসমান

নারায়ণগঞ্জে কাউকে টেক্স দিয়ে রাজনীতি করবো না : শামীম ওসমান

শামীম ওসমান উন্নয়নের জন্য নিরলস ভাবে কাজ করছে : শাহ নিজাম

ফের নির্বাচন দাবিতে হাইকোর্টে আজাদের মামলা দায়ের

সর্বশেষ জনপ্রিয়

ঘাতক পিষ্টুর পরকীয়া প্রেমিকা রত্নার দাবি 'আমি নির্দোষ, ফেরসে গেছি'

৩ নারীর চুল কেটে, গাছে বেঁধে নির্ধাতন মধ্যযুগীয় বর্বরতাকেও হার মানায়

আলোচিত প্রবীর হত্যায় স্বাক্ষর গ্রহণ শুরু, স্বপন খুনে চার্জ গঠন

ইংল্যান্ডের বিপক্ষে উইন্ডিজের ১৪ সদস্যের স্কোয়াডে গেইল-ত্রাথওয়েট

ইডেনের নায়ক কেকেআর মাতাবেন আইপিএলে

জাতির কাছে ক্ষমা চাওয়ায় সেই সানাইকে ছেড়েছে পুলিশ

মদনপুরের বিতর্কিত সেই খলিল মেসারসহ ১১ জন কারাগারে

Figure 5.2: Political Page.

Online News Paper International Page:

জাতীয় রাজনীতি আন্তর্জাতিক জেলাজুড়ে খেলাধুলা বিনোদন ফিচার সাহিত্য কলাম অন্যান্য

আন্তর্জাতিক

জন্মদিনে বাবার হাতে মেয়ে খুন

জন্মদিনে বাবার হাতে মেয়ে খুন হয়েছে। ঘটনাটি ঘটেছে কানাডার টরন্টোতে। গত বৃহস্পতিবার রাতে বাবার ঘর থেকেই উদ্ধার করা হয়েছে মেয়েটির মৃতদেহ।

সাত সন্তানের জন্ম দিলেন ইরাকি নারী

রোহিঙ্গাদের জন্ম আরো ৯২০ মিলিয়ন ডলার তহবিলের আবেদন জাতিসংঘের

চাকরিচ্যুত হয়ে প্রতিষ্ঠানের ৫ সহকর্মীকে খুন!

পাকিস্তানকে একঘরে করার ঘোষণা ভারতের

সর্বশেষ জনপ্রিয়

ঘাতক পিষ্টুর পরকীয়া প্রেমিকা রত্নার দাবি 'আমি নির্দোষ, ফেরসে গেছি'

৩ নারীর চুল কেটে, গাছে বেঁধে নির্ধাতন মধ্যযুগীয় বর্বরতাকেও হার মানায়

আলোচিত প্রবীর হত্যায় স্বাক্ষর গ্রহণ শুরু, স্বপন খুনে চার্জ গঠন

ইংল্যান্ডের বিপক্ষে উইন্ডিজের ১৪ সদস্যের স্কোয়াডে গেইল-ত্রাথওয়েট

ইডেনের নায়ক কেকেআর মাতাবেন আইপিএলে

জাতির কাছে ক্ষমা চাওয়ায় সেই সানাইকে ছেড়েছে পুলিশ

মদনপুরের বিতর্কিত সেই খলিল মেসারসহ ১১ জন কারাগারে

Figure 5.3: International Page [17].

Online News Paper National Page:



Figure 5.4: National Page.

Online News Paper Sports Page:

a) Cricket

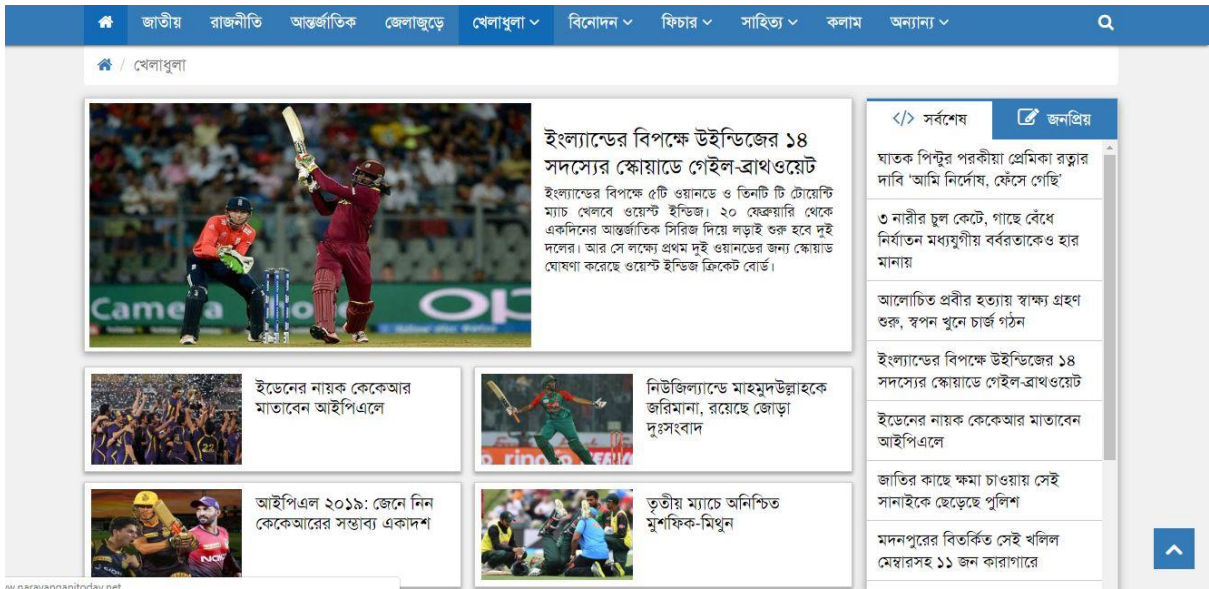


Fig: 5.5 Sports (Cricket) Page

b) Football

Fig: 5.6 Sports (Football) Page

Image of Entertainment Page:

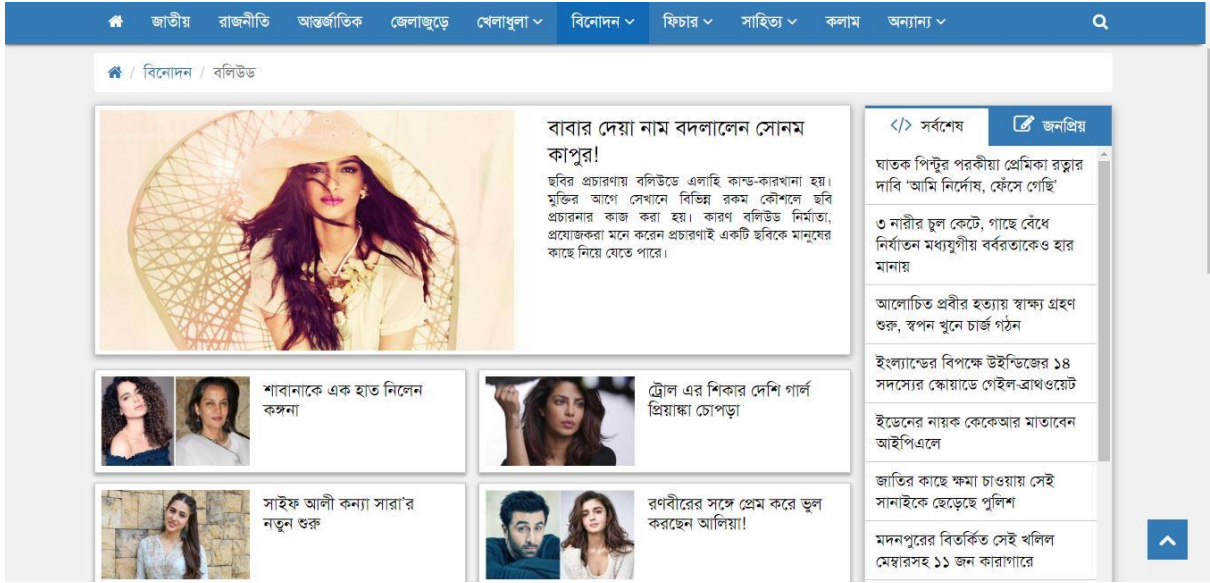


Figure: 5.7: Entertainment Page

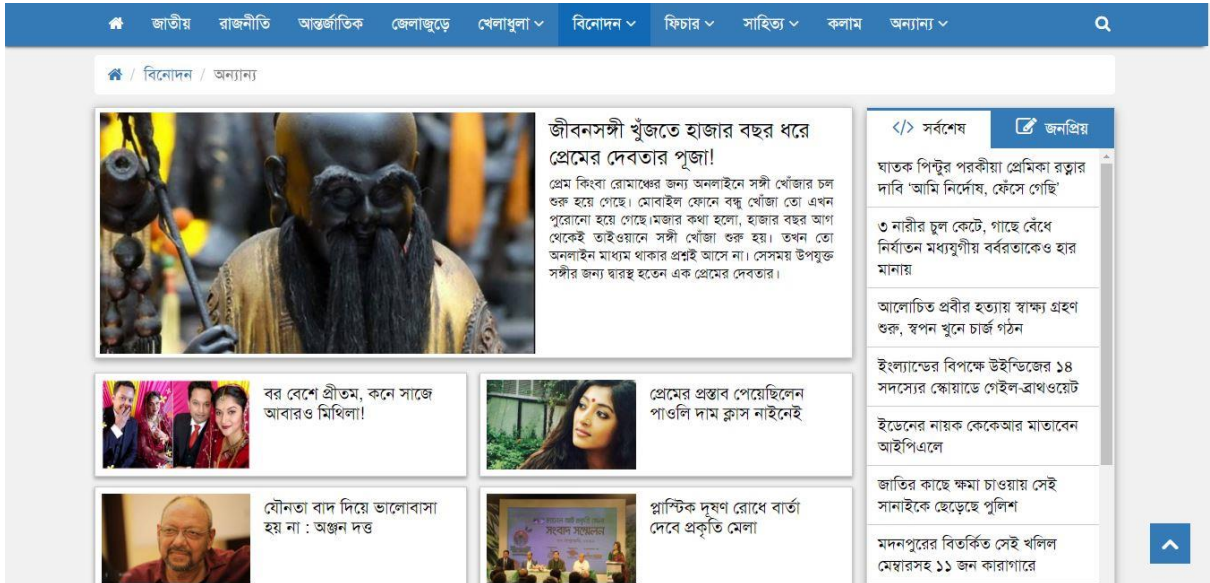


Figure. 5.8: Entertainment Page.

Image of District News of BD:

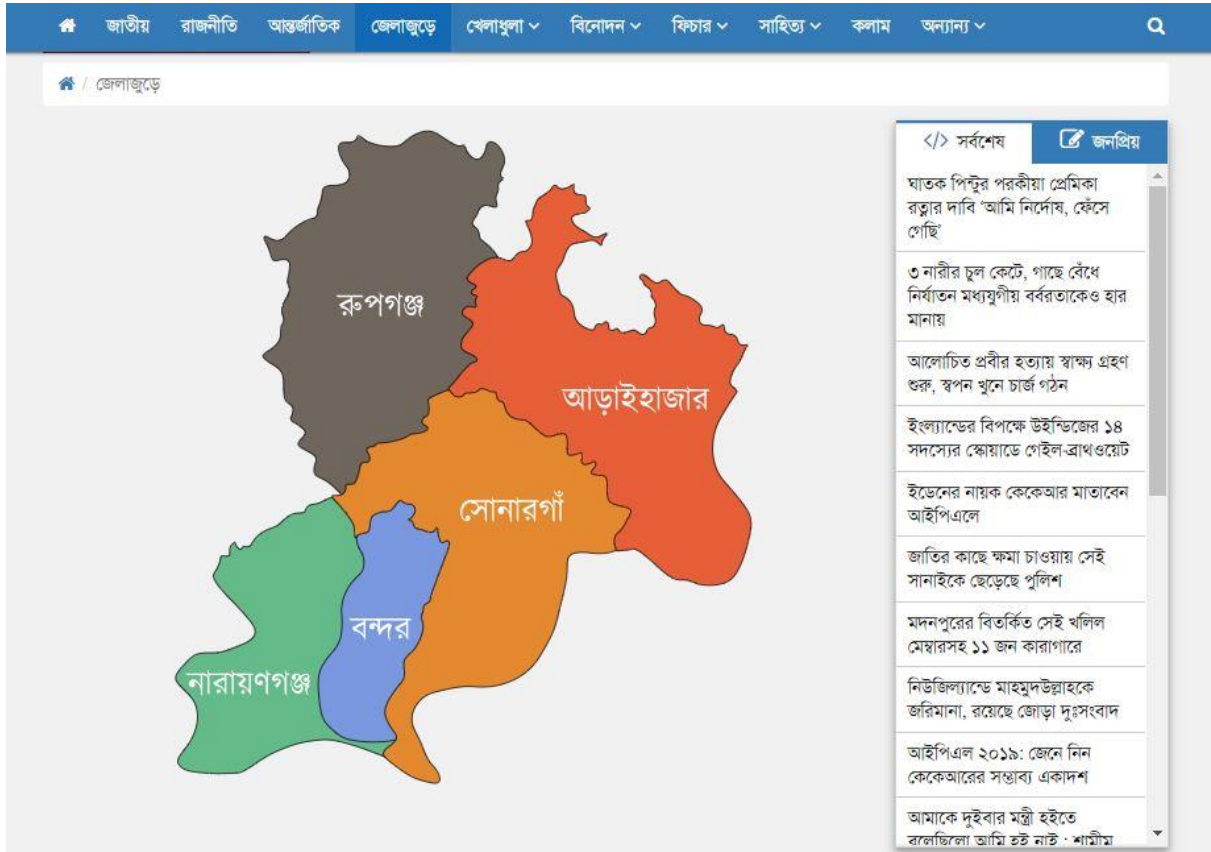


Figure: 5.9: District News Page

Image of Feature Page:



Figure: 6.0: Feature News Page

Image of Literature News Page:

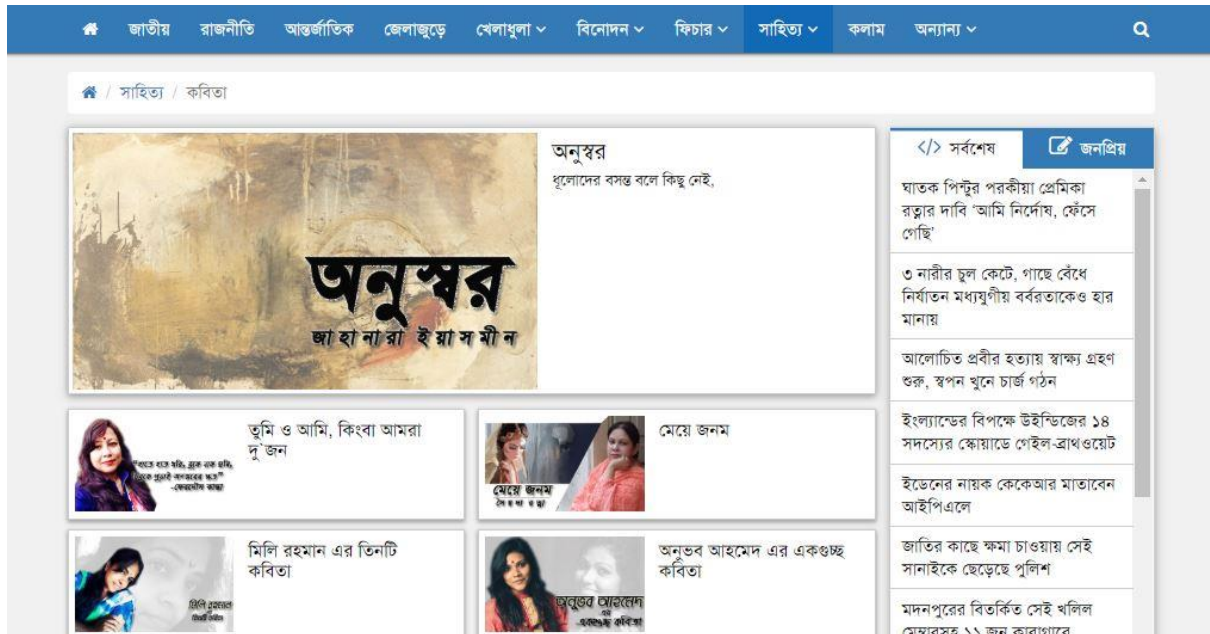


Figure 6.1: Literature New Page.

Image of Others News Page:



Fig 6.2: Others News Page

Image of bottom navigation bar

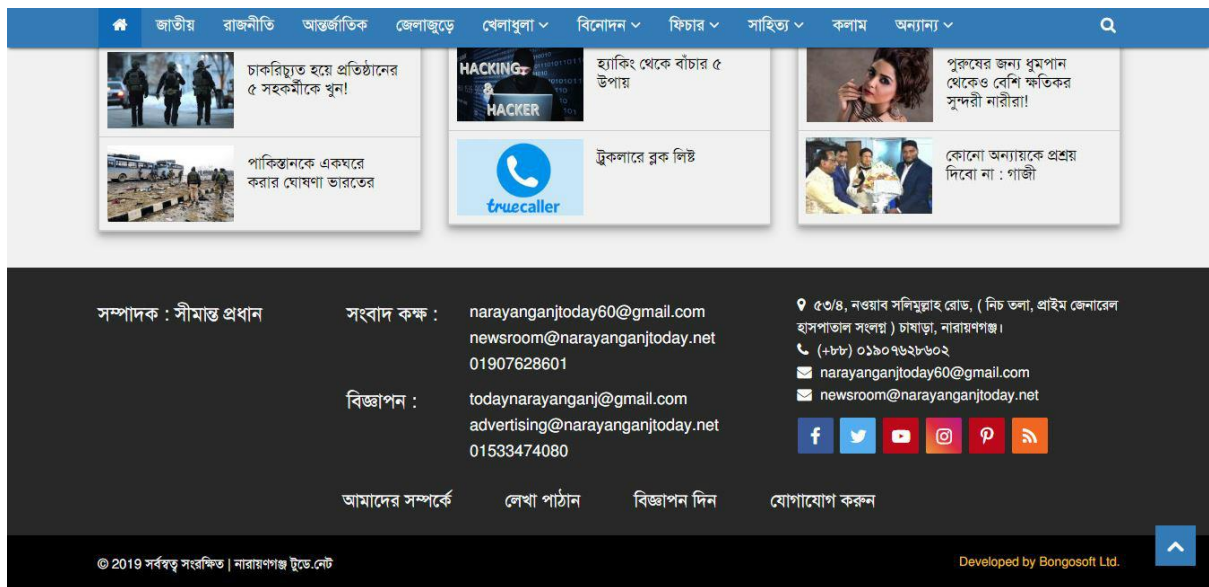


Fig 6.3: Bottom navigation bar

Image of About US

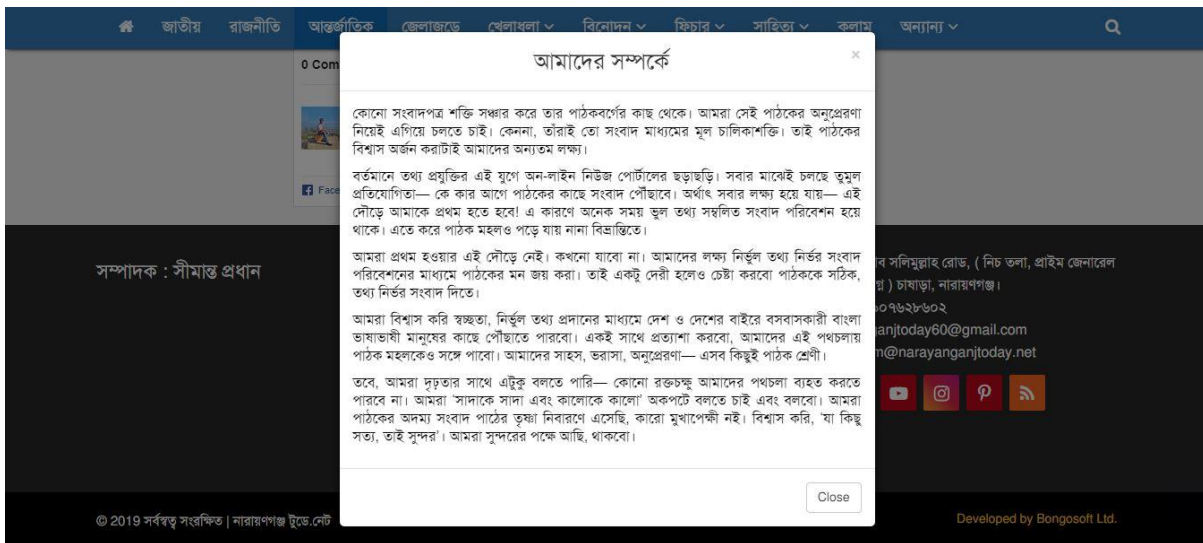


Fig 6.4: About US

Image of articles sending Process

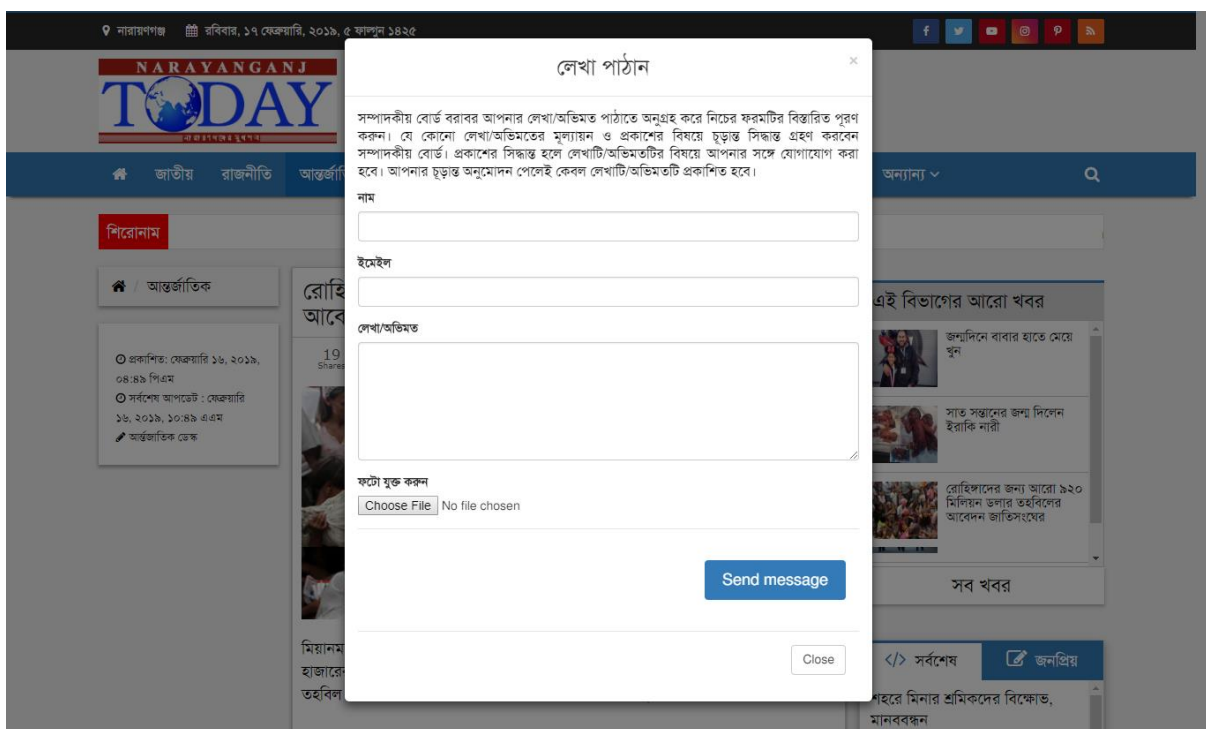


Fig 6.5: Articles sending Process

Online News Paper Contact Us Page

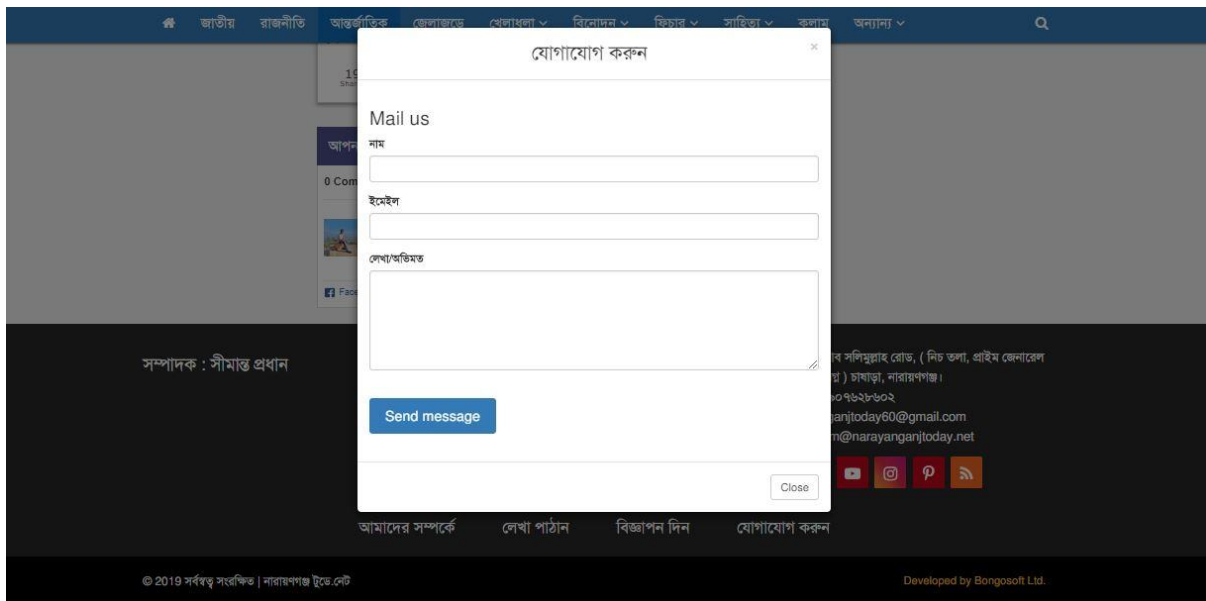


Fig 6.6: Contact Us Page.

5.1.2 Admin Specification

This is the input panel of the Online News Paper. We have developed this panel so that we can dynamically control the Online News Paper. It is fully secured system. Without being admin or knowing user name and password no one can access it. It is fully protected from unauthorized access [5,7].

Image of Admin Panel:

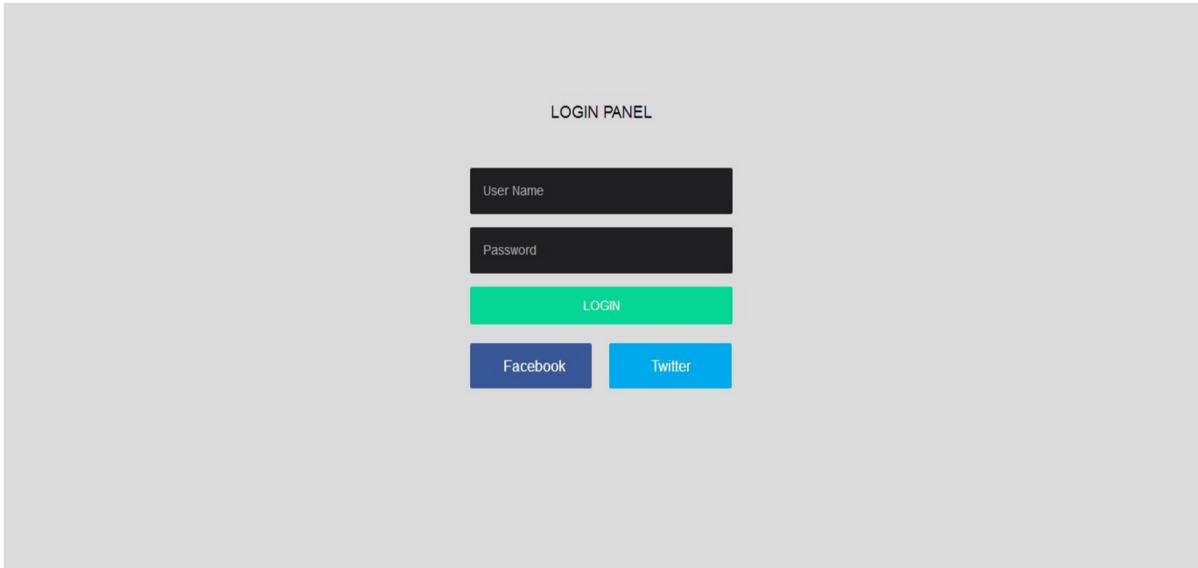


Fig 6.7: Admin Panel.

Image of Admin Panel Home Page:

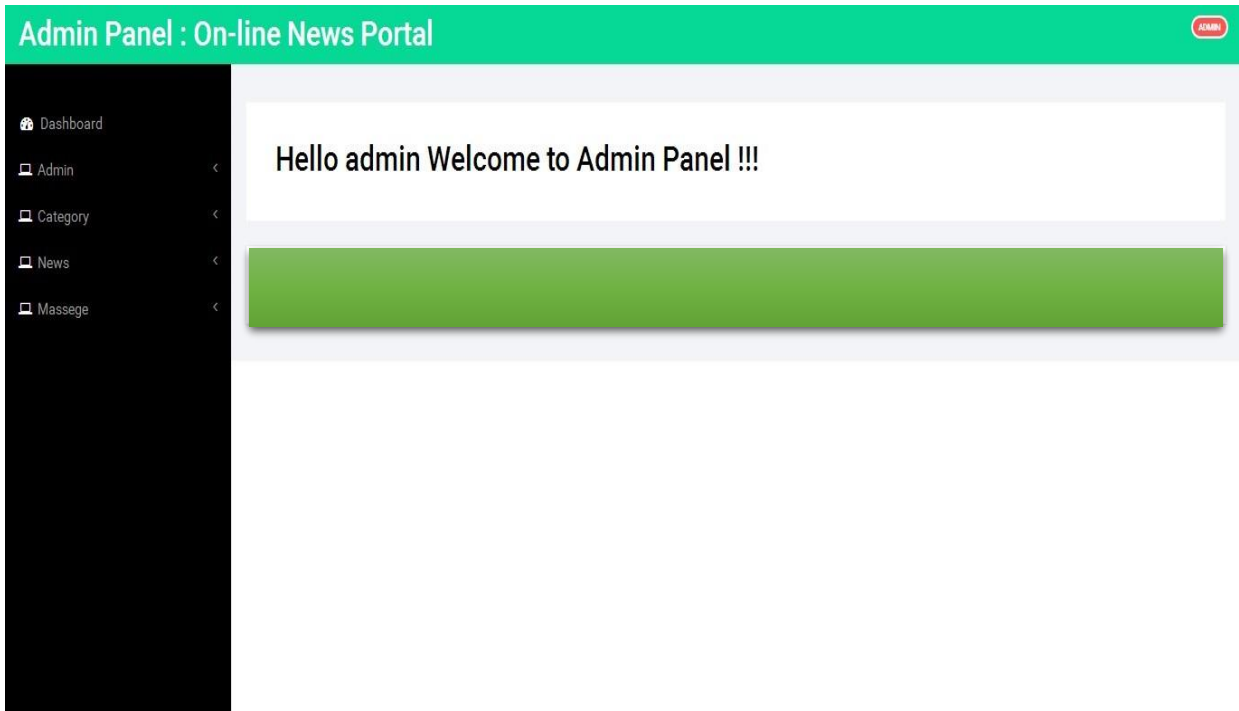


Fig 6.8: Admin Panel Home Page.

5.1.3 Files and Database

We have stored all data in database so that we can dynamically edit, delete all the data [8].

Files and Database:

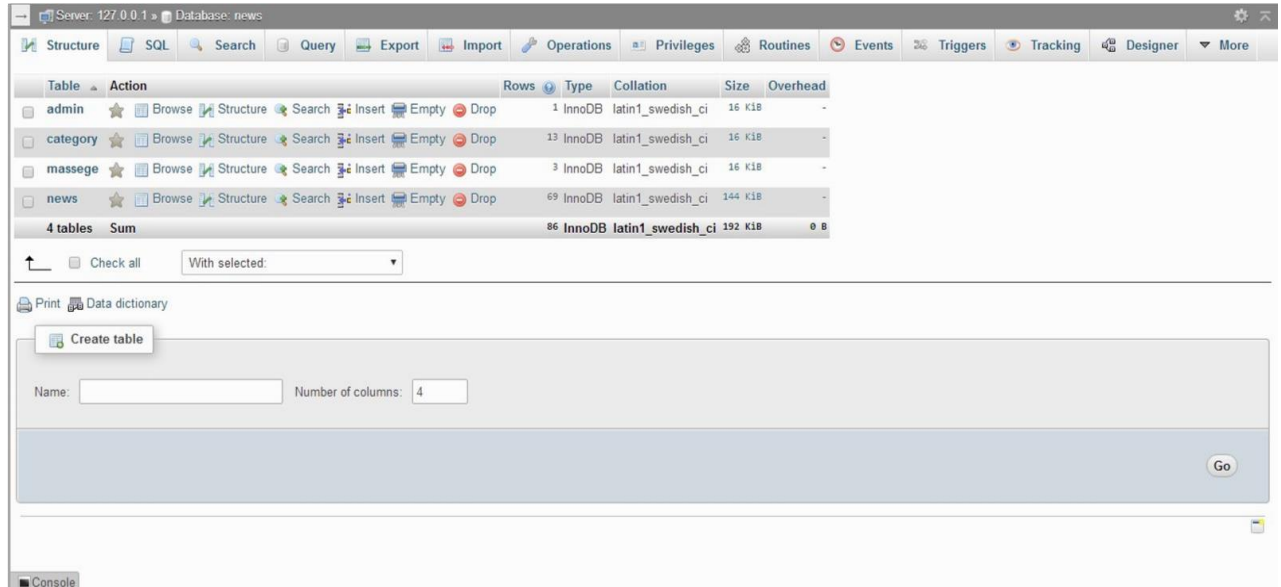


Fig 6.9: Files and Database

Chapter Six

Goals and Limitation of News Portal

6.1 Goals

- ❖ Easy to access news about Domestically and Internationally
- ❖ Time to time make update news worldwide
- ❖ Increases the effectiveness of the day by day news.

6.2 Limitations

Limitations The current system has certain limitations, to which solutions as a future development can be provided:

- ❖ We don't manage news reporting system.
- ❖ Searching system is not more flexible.
- ❖ Sensibility level could not add.
- ❖ We didn't develop the site of advertisement

6.3 Future scope

The future scope of our project is valuable. Our project time duration was only one years. In this time interval we developed our project. It was very difficult to complete project within this time duration. In future if we get chance we will develop this website for large volume. As for other future developments, the following can be done:

- ❖ We will manage news reporting system.
- ❖ We can make video conferencing system.
- ❖ We update our database.
- ❖ We can Make Searching system more flexible.
- ❖ Sensibility level could add be added.

Conclusion

Online News Portal Narayananj Today provides the benefits of slick operations, enhanced administration and control and improved profitability. The website increases profits and reduces costs considerable by handling information in an efficient and effective way. It reduces manpower and increases the efficiency of the daily news, maintain data consistency and store the details of viewer information. Main benefits of this project is that it can maintain the whole system very easily and effectively. It also provides proper security of the database and maintains the integrity of the data. In near future, the website will be offline newspaper for the purpose of easy and effective use and cans be marketed commercially for the purpose of proper benefits.

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