ONLINE NEWS PORTAL

\mathbf{BY}

MANOBENDRONATH HALDAR

ID: 162-15-7986

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

Supervised By

Ms. Zakia Zaman

LECTURER

Department of CSE

Daffodil International University

Co-Supervised By

Moushumi Zaman Bonny

Senior Lecturer

Department of CSE

Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY DHAKA, BANGLADESH 2020

APPROVAL

This project Titled "Online News Portal" submitted by Manobendronath Haldar, ID: 162-15-7986 to the department of Computer Science and Engineering, Daffodil International University, has been accepted by as satisfactory for the partial fulfillment of the requirements for the Degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The Presentation has been held on 2020.

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Professor and Head

Department of CSE

Faculty of Science & Information Technology

Daffodil International University



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Internal Examiner

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

X Halile

Md. Tarek Habib

Internal Examiner

Assistant Professor

mit

Department of Computer Science and Engineering

Faculty of Science & Information Technology

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Dr. Mohammad Shorif Uddin

External Examiner

Professor

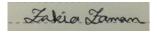
Department of Computer Science and Engineering

Jahangirnagar University

DECLARATION

I hereby declare that, this project has been done by me under the supervision of **Ms. Zakia Zaman, Lecturer, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by:



Ms. Zakia Zaman

Lecturer

Department of CSE

Daffodil International University

Co-Supervised by:

Moushumi Zaman Bonny

Senior Lecturer

Department of CSE

Daffodil International University

Submitted by:



Manobendronath Haldar

ID: - 162-15-7986

Department of CSE

Daffodil International University

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I would like to express our heartiest gratitude to **Prof. Dr. Syed Akhter Hossain,** Head, Department of CSE, for his kind help to finish my project and also to other faculty member of CSE department of Daffodil International University.

Finally, I would like to thank those who helps me to complete this project.

ABSTRACT

In the busy life, where we can't spend any single moment without being in online and without technology. From morning to night, we need help of the technology. This is the revolutionary time of computer technology. Most of the works depends on web application. For this reason, anytime, anywhere, anyone can access a website by internet at low cost and we can find our expectable and most update information from website. At present information is one the most valuable resource of the current world. We have developed our "Online News Portal" project so that we can aware the people about recent events that are currently happening in our surrounding life day-by-day.

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Chapter 1

Introduction

1.1 Introduction

Now we live in the age of information communication and technology. This is the revolutionary time of computer technology. Much of the work depends on the web application. Information is one of the most valuable resources in the world today. We have created our project so that we can make people aware of the information. The online news system allows subscribers to read news related to many fields, such as entertainment, national, international, business, Bollywood, Hollywood, politics, sports, education, etc., without paying or logging in. He or she can also contact us for suggestions and can also give advice on our website. New news can be added or posted only by the administrator and only an administrator is allowed to update or delete any news. Administrators have the right to authorize others to update, add or remove news.

1.2 Motivation

In a developing country like Bangladesh online news portal will help escaping or finding a diversion from problems and will help to manage entertainment. It will fulfill the systematic reading of news or accessing news at specific times of day or through preferred news media. It also helps gaining insight into oneself by finding models of behavior or reinforcement for personal attitudes. It helps for social empathy and learning about relevant conditions and events in society as well as in the country.

1.3 Objectives

The goal of this project is to develop an online application for an online news portal that can let people know about the daily news. It can get required criminal orientation information faster, easier, colorful and attractive as well as other news. The goal of this project is to develop an online application for an online news website that can let people know about the daily news. It can get required criminal orientation information faster, easier, colorful and attractive as well as other news.

1.4 Expected Outcome

Attempts have been made to develop a news portal or an information-based website. We are developing this project to help people and make them aware so that they can find out any news every day. Our project has many features that make people aware. Some of the new and important features of this project are weather, google translator, scientific news. It is also quick to access and customized.

1.5 Organization

The website development project of Online News Portal is described in more detail in the following chapters. Such as, for example, in chapter 2 "Background Study", in chapter 3 "Specification of Requirement", in chapter 4 "Specification of Project", in chapter "5 Implementation and Testing" and in chapter 6 "Conclusion". References and Appendices are also included for further research on this project.

Chapter 2

Background Study

2.1 Introduction

This portion presents the background study of my project, problems and its significance and the scope of the study. The proposed project is a web app along with android based mobile application which helps the users in getting current and important news instantly through internet. The purpose of this project is to provide daily and expedient news for users. Users can choose to read different type of news by selecting category which is managed by the database.

2.2 Related Works

There will some new features like weather, google translator, scientific news in the online news portal which will help to achieve more information according to the requirement of users in their native languages. Which will also be a cause of their satisfaction. Users will prefer to use the same app which fulfill their requirements.

2.3 Comparative Studies

Now a days there are different type of web page related to online news portal which included news with only English translator and those are updated currently but not mentioned according time. In this project most recent news will show according to their update time and google translator will be added which will help to read the newspaper from anywhere in the world in any language.

2.4 Scope of the Problem

In this project, there will be a weather option which will not be able to display without internet connection. One person can read the news in any language by using google translator. But comment option in this project is not controlled by the google translator which may create problem to read the comments for other people and admin.

2.5 Challenges

2.5.1 Reliability

When a user used the system, the system need to respond correctly and need to fulfill the requirements of user.

2.5.2 Availability

The system must be available at all times for the requirement of a user. The system must be operational and capable of delivering a useful service to the user.

2.5.3 Maintainability

According to user's need the system requirement may emerge. The system need to be changeable to accommodate the requirements when new requirements are emerged.

2.5.4 Performance

When the user called the system, system performance should use the CPU most efficiently. The user should complete the operation at the shortest possible interval.

2.5.5 Reparability

If the user used the system, a system failure is inevitable. Malfunctions caused by a failure can be minimized if the system can be repaired quickly.

Chapter 3

Requirement Specification

3.1 Introduction

This section gives a description and overview of everything included in the document. Also the purpose for this document is described and a list of abbreviations and definitions is provided.

3.2 Requirement Collection and Analysis

This system will consist of two parts: web portal and mobile application. The mobile application will used to read newspaper and writing comments while web portal will used to manage those news and comments. An online news portal system stores the following information as shown below.

3.2.1 News Details

It includes the news that viewer can read with details information. It also has comment writing facility where readers can write their comments. It helps readers with image and description of news with comment writing facility.

3.2.2 News Category

It includes title, category, description and image of a particular news.

3.2.3 Search

It includes search option for viewers who can search any news according to category or news title.

3.3 Specific Requirements

This function contains all the functional and quality requirements of the system. It provides a detailed description of the system and all its features.

3.4 Functionality

3.4.1 User

News List

User can view the full page including different types of news where they can choose to read the specific news.

View Category

User can view the category listed for specific news and also can read news according to the news category.

Search

User can search for the specific news they want to read for their required information.

Comment

User can comment on a specific news if they like or dislike the news or their personal opinion on the specific news.

3.4.2 Admin

Add or Delete News

Admin can add news when recent news arrived and also can delete news if the news is irrelevant.

Add or Delete Category

Admin can add category for specific type of news and also can delete news category if those are not needed anymore.

Manage Post

Admin can edit or delete post if required and place them in trash.

Manage Comment

Admin can control the comment section written by a user by approving or not approving those comments.

3.5 E-R Diagram

E-R diagram

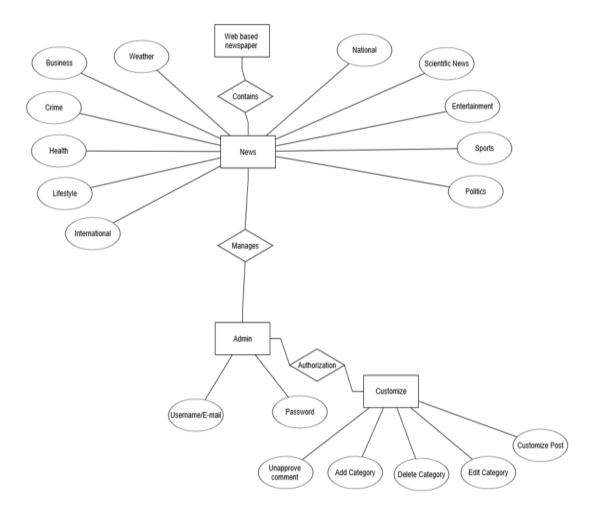


Fig 3.5: E-R Diagram

3.6 Non-Functional Requirements

The system must be web based system as well as mobile application system. User should access the system using via internet or mobile application. Thus, if they need to know the weather information they must have internet connection.

Chapter 4

Design Specification

4.1 Developing Life Cycle of the System

Preliminary Investigation

It is important to determine if a new system is needed. If needed then some primary task needed to be performed. By observation and interview, it is needed to determine what information is needed by whom, when, where and why. Then suggesting alternative solution a short report needed to be prepared.

4.1.1 System Analysis

This will help identify the costs, benefits, resource requirements, and specific user needs required for completion. The development process can only continue once the management has approved the background study recommendations.

4.1.2 System Design

In system design, the function and operation of design are described in details. The system design include with layout of screen, rules of business, diagrams and other documents.

4.1.3 System Development

System development is the process of defining, designing, testing, and deploying a new software application or program. This may include the development of custom systems at intervals.

4.1.4 Implementing the system

A new system may be used to verify the success of the system. The implementation stages of the system provide users with confidence. This procedure is designed so that most problems can be managed.

4.1.5 System Maintenance

The maintenance phase takes place after the system has been put into operation. This includes implementing changes that the software may make over a period of time, or implementing new requirements after the software is implemented at the customer's location. The maintenance phase also includes dealing with residual errors that may occur in the software even after the testing phase. This phase also monitors system performance, corrects errors, and makes required changes.

4.2 Front-end Design

The front-end is everything the user sees, including the layout and some languages such as HTML, PHP, JS, CSS, boot text. The user interface (UI) designer is generally a visual designer and focuses on design.

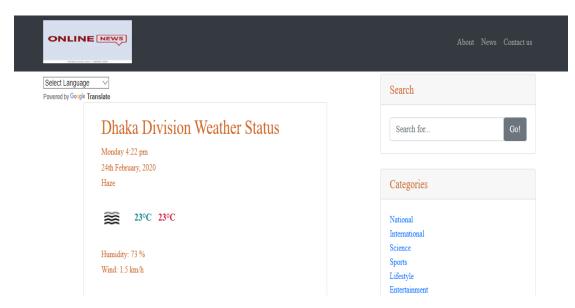


Fig 4.2.1: Weather





Fig 4.2.2: Front page

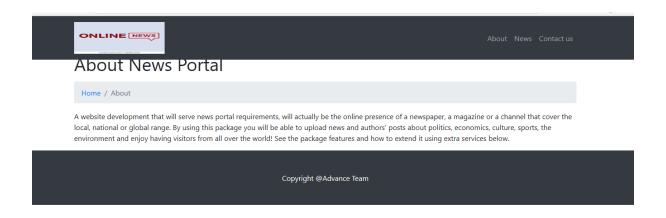


Fig 4.2.3: About page

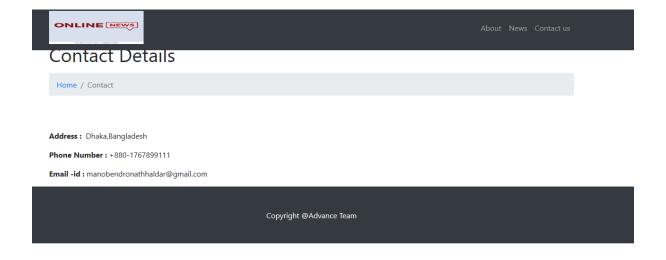


Fig 4.2.4: Contact page

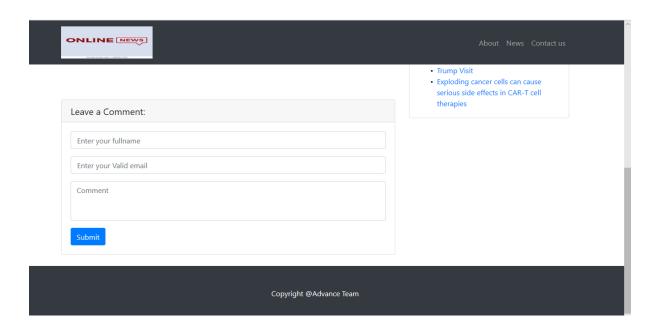


Fig 4.2.5: Comment page

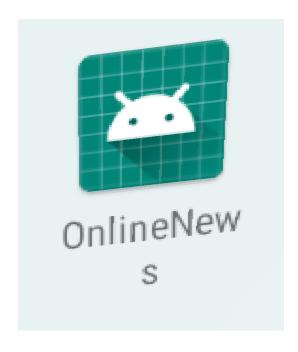


Fig 4.2.6: Online News Mobile app

4.3 Back-End Design

Back-end or "server-side", basically how the site works, updates and edits. This refers to everything that the client cannot see in a browser, such as a database and server. Generally, people who provide back-end services are called programmers or developers.

Back-end developers are often concerned with issues such as security, structure, and content behavior. They generally know and can use suitable languages like HTML, PHP, JS, CSS, Bootstrap.

CHAPTER 5

Implementation and Testing

Testing is an integral part of the system development process. The main standard for software testing is contained in the ANSI / IEEE, a standard for software programming.

5.1 Unit Test

Every part of the website needs to be tested to ensure that the detailed design is properly executed and functioning properly.

5.2 Link Test

All linked pages of the website should be tested several times to ensure that the user can visit each page without any problem.

5.3 Integration Test

A hierarchical method is used to control the integration of the pages within the site. It is seen that it is possible for a user to navigate to and from the pages of the website.

5.4 System Test

System testing completed prior to installation. It has been observed that the system works as needed and there are no problems.

5.5 Usability Test

The usability test was done by users. These verify that the system provides the required business functionality and accurately generates the expected business information.

5.6 Implementation test

Implementation is the process of action for the formulated plan. Before we implement it, the plan should be finalized and our goals should be clear. Each of these actions formulated in the plan is tested as an implementation test. Malware developers often worry about things like security, structure, and content behavior. They generally know and can use appropriate languages like HTML, PHP, JS, CSS, Bootstrap.

CHAPTER 6

CONCLUSION

The Online News Portal is an application where anyone can easily find and decide where they can read a newspaper online. From my web or android application users can not only can read the daily updated news but also knowing about the weather condition and submitting their opinion about specific topic in the comment section. So, users can be the part of the life events that are occurring in our daily life. This type of application should be available to help people with proper information.

Above all, this application is totally free for everyone if they have internet connection. Anyone can visit the website and comment in the comment section with their email id.

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https://en.wikipedia.org/wiki/Software_testing

Last Access Date – 06.07.2020[online]

[3] Important Necessary Information

Google

https://www.google.com/

Last Access Date – 06.07.2020[online]

APPENDICES

APPENDIX A: PROJECT REFLECTION

HTML AND CSS BASED CODE:

Fig 1: Admin Login Code

Fig 2: Admin Login Code

Fig 3: Admin Login Code

```
| Implied | Impl
```

Fig 4: View Page Code

```
cody>
cloudy>
cloudy
class="container">
cdiv class="container">
cdiv class="container">
cdiv class="container">
cdiv class="container">
cdiv class="col-md-8">
cdiv class="col-md-
```

Fig 5: View Page Code

```
63
64
65
66
67
68
69
          if (isset($_GET['pageno'])) {
70
71
                $pageno = $ GET['pageno'];
              } else {
                $pageno = 1;
             $no_of_records_per_page = 8;
$offset = ($pageno-1) * $no_of_records_per_page;
             $total_pages_sql = "SELECT COUNT(*) FROM post";
             $result = mysqli_query($con,$total_pages_sql);
             $total_rows = mysqli_fetch_array($result)[0];
             $total_pages = ceil($total_rows / $no_of_records_per_page);
81
83
84
     $query=mysqli_query($con,"select post.id as pid,post.PostTitle as posttitle,post.PostImage,category.CategoryName as category,category.id as cid,subcategory.Subc
    while ($row=mysqli_fetch_array($query)) {
85
86
88
               <div class="card mb-4">
89
       <img class="card-img-top" src="admin/postimages/<?php echo htmlentities($row['FostImage']);?>" alt="<?php echo htmlentities($row['posttitle']);?>">
                 <div class="card-body">
                   <h2 class="card-title"><?php echo htmlentities($row['posttitle']);?></h2>
                      Category : </b> <a href="category.php?catid=<?php echo htmlentities($row['category']);?></a>
```

Fig 6: View Page Code

```
88
             <div class="card mb-4">
      <img class="card-img-top" src="admin/postimages/<?php echo htmlentities($row['PostImage']);?>" alt="<?php echo htmlentities($row['posttitle']);?>">
89
90
               <div class="card-body">
91
                <h2 class="card-title"><?php echo htmlentities($row['posttitle']);?></h2>
92
                   Category :  <a href="category.php?catid=<?php echo htmlentities($row['cid'])?>"><?php echo htmlentities($row['category']);?></a> 
93
94
                <a href="news-details.php?nid=<?php echo htmlentities($row['pid'])?>" class="btn btn-primary">Read More &rarr;</a>
95
96
97
               Posted on <?php echo htmlentities($row['postingdate']); ?>
98
99
               </div>
             </div>
     <?php } ?>
102
104
105
106
108
109
        <a href="?pageno=1" class="page-link">First</a>
             page-item">
              <a href="<?php if($pageno <= 1){ echo 'f'; } else { echo "?pageno=".($pageno - 1); } ?>" class="page-link">Prev</a>
            114
            = $total_pages){ echo 'disabled'; } ?> page-item">
115
              <a href="<?php if($pageno >= $total_pages){ echo '‡'; } else { echo "?pageno=".($pageno + 1); } ?> " class="page-link">Next</a>
            <a href="?pageno=<?php echo $total_pages; ?>" class="page-link">Last</a>
        119
            </div>
```

Fig 7: View Page Code

```
cul class="pagination justify-content-center mb-4">
cli class="page-item">c href="pageno=1" class="page-link">First</a>/li>
cli class="page-item">c href="pageno=1" class="page-link">First</a>/li>
cli class="c?php if(pageno <= l) ( echo 'disabled'; ) ?> page-item">
cli class="c?php if(pageno <= l) ( echo '#t') elso ( echo "pageno=".(pageno = l); ) ?>" class="page-link">Prev</a>
cli class="c?php if(pageno >= $total_pages) ( echo 'disabled'; ) ?> page-item">
cli class="c?php if(pageno >= $total_pages) ( echo '#t') elso ( echo "pageno=".(pageno + l); ) ?> " class="page-link">Next</a>
cli class="page-link">Next</a>
cl
```

Fig 8: View Page Code

APPENDIX B: RELATED DIAGRAM

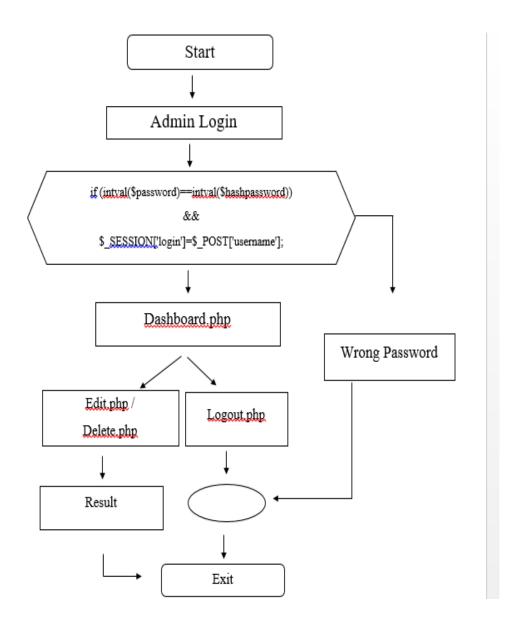


Fig 9: Flow Chart

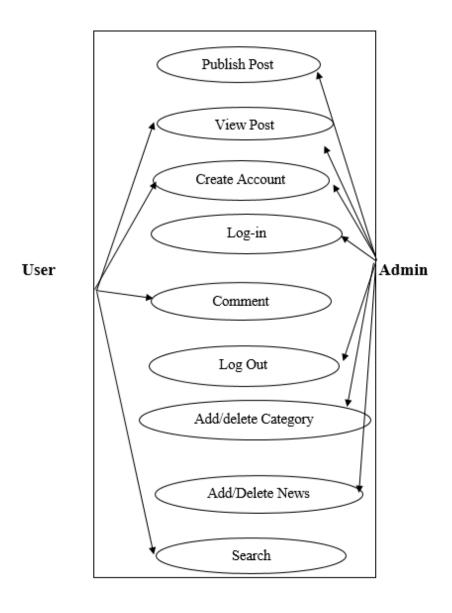


Fig 10: Use Case Diagram

Online News portal

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