Project Report

Certificate

## ACKNOWLEDGEMENT

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1. **Introduction**

* **Project Description**
* **Project Profile**

* Project Description `
* A blog is a frequently updated online personal journal or diary. It is a place to express yourself to the world. A place to share your thoughts and your passions. Really, it’s anything you want it to be. For our purposes we’ll say that a blog is your own website that you are going to update on an ongoing basis. Blog is a short form for the word we blog and the two words are used interchangeably. Blogs range from the personal to the political, and can focus on one narrow subject or a whole range of subjects.
* It can also play an important role in student’s life. It can help in the promotion of critical and analytical thinking, increased access and exposure to quality content and a combination of solitary and social interactions with peers.
* Currently students in schools or colleges are unable to express their ideas, their talent or anything that can expressed for some benefits for everyone. The reason is, schools or colleges don’t have any proper medium to accomplish it. But proposed online blogging system can help in accomplish these things and even much more. We will cover the objectives of this online blogging system in next section.
* Internet has become reality and usage of internet become very much popular and there is tremendous increase of internet in all over the world for educational purpose. The Online Blogging System is easy to use, full-featured and much more.
* Features:
* Online Blogging System is a perfect platform for students, teachers, institutional , administrative purposes.
* Before take any type of service, User have to register first.
* Home page display all categories of Blog and The Online Blogging System will allow the users to publish the writings, images if he/she should have credentials to login.
* After the user insert the blog, the blog goes to the admin and the admin check and verify the blog and then the blog is displayed to the rest of the users.
* User and admin can forget their password.
* Admin can manage all type operation of system. Admin has every permission.
* Project Profile

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| Field | Details |
| Project Name: | IBlogger |
| Technology: | Node.js, React.js, Express.js, MongoDB, Html, Css, Bootstrap, Javascript. |
| Front End: | React.js |
| Back End: | Node.js / Express.js |
| Browser: | All browsers are supported. |
| Internal Guide: | Prof. Ridhhi Joshi |
| Platform: | Node.js -16.14.0 , React.js -17.0.2 |
| Tool Used For:- | Visual Studio Code, MongoDB Compass,  Postman. |
| Submitted To: | Shree Sambhubhai V Patel College  Of Computer Science & Business  Management |
| Developed By: | Chodvadiya Neel S.  Balar Axit M.  Dhanani Rohan J. |

1. **Environment Description**

* **Hardware and Software Requirements**
* **Technologies Used**
* **Hardware And Software Requirement**

The efficient hardware and software configuration require running the system is as suggest below. The configuration suggested is for better performance. Same functionality or higher configuration will always better.

* **Client Side :**

* Internet enabled device with web-browser.
* **Server side :**
* Node.js - 14.16.1
* MongoDB Database
* **Development Side :**
* **Processor :** Intel core i5 10th generation
* **O.S :** Windows 10
* **Memory :** 8.00 GB
* **Hard disk :** 1TB
* **Web Browser :** Google Chrome (Recommended)
* **Technologies Used :**
* **Overview of React.js :-**
* React is a JavaScript library for building user interfaces.

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* React is a library for building compassable user interfaces. It encourages the creation of reusable UI components, which present data that change over time.
* React abstracts away the DOM from you, offering a simpler programming model and better performance.
* React can also render on the server using Node, and it can power native apps using React Native. React implements one- way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

**React Advantages :-**

* Uses virtual DOM which is a JavaScript object. This will improve apps performance, since JavaScript virtual DOM is faster than the regular DOM.
* Can be used on client and server side as well as with other frameworks.
* Component and data patterns improve readability, which helps to maintain larger apps.
* **Overview of Node.js :-**

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* Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine).
* XAMPP is regularly updated to the latest releases of apache, Maria DB, PHP, and Perl.
* Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.
* **Features of Nodejs** :-

Following are some of the important features that make Node.js the first choice of software architects.

* **Asynchronous and Event Driven** :

All APIs of Node.js library are asynchronous, that is, non-blocking. It essentially means a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call.

* **Very Fast** :

Being built on Google Chrome's V8 JavaScript Engine, Node.js library is very fast in code execution.

* **Overview of JAVASCRIPT** :-
* Java script is a programming language that can be included on web pages to make them more interactive. You can Use it to check or modify the Content of forms, change images. Open new widows and write dynamic page content.
* This allows you make parts of your web pages appear or disappear or move around on the page.
* JavaScript is a client side, interpreted, object oriented, high level scripting language, while Java is a client side, compiled, object oriented high level language.
* JavaScript Feature :-
  + JavaScript is more flexible language.
  + JavaScript make possible all type of validation and security.
  + JavaScript has set of function.
* **Overview of CSS** :-
* CSS is the languages we use to style an HTML document.CSS describe how HTML elements should be displayed. This tutorial will teach you CSS from basic to advance.

## The Benefits of CSS :

* Greater typography and page layout controls
* With style sheets, you can specify traditional typography features that you could never do with HTML alone (even with its presentational extensions).
* Less Work
* Not only can format all similar elements in a document with a single style rule, external style sheets make it possible to edit the appearance of an entire site at once with a single style sheet edit.
* Potentially smaller documents
* Redundant font tags and nested tables make for bloated documents. Stripping Presentational HTML out of the document save on file size.
* **Overview of HTML** :-
* HyperText Markup Language (HTML) is the set of markup symbols or codes inserted into a file intended for display on the Internet. The markup tells web browsers how to display a web page's words and images.
* Each individual piece markup code (which would fall between "<" and ">" characters) is referred to as an element, though many people also refer to it as a tag. Some elements come in pairs that indicate when some display effect is to begin and when it is to end.
* HyperText Markup Language is the computer language that facilitates website creation.
* The language, which has code words and syntax just like any other language, is relatively easy to comprehend and, as time goes on, increasingly powerful in what it allows someone to create.
* **Overview of BootStarp** :-
* Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.
* It would be easy to send you over to their Getting Started page and call it a day. Their setup guide is indeed a host of useful information - links to CDNs, explanations on how to install with Bower, NPM, and Composer, information on integration with Autoprefixer and LESS, a bunch of templates, licenses, and translations.
* Bootstrap employs a handful of important global styles and settings that you’ll need to be aware of when using it, all of which are almost exclusively geared towards the normalization of cross browser styles.
* **Overview of MongoDB :-**
* MongoDB is a [source-available](https://en.wikipedia.org/wiki/Source-available) [cross-platform](https://en.wikipedia.org/wiki/Cross-platform) [document-oriented database](https://en.wikipedia.org/wiki/Document-oriented_database) program. Classified as a [NoSQL](https://en.wikipedia.org/wiki/NoSQL" \o "NoSQL) database program, MongoDB uses [JSON](https://en.wikipedia.org/wiki/JSON)-like documents with optional [schemas](https://en.wikipedia.org/wiki/Database_schema). MongoDB is developed by [MongoDB Inc.](https://en.wikipedia.org/wiki/MongoDB_Inc." \o "MongoDB Inc.) and licensed under the [Server Side Public License](https://en.wikipedia.org/wiki/Server_Side_Public_License) (SSPL).
* MongoDB Atlas also includes powerful features to enhance reliability for your mission-critical production databases, such as continuous backups and point-in-time recovery.
* MongoDB Atlas makes it easy to control access to your database. Your database instances are deployed in a unique Virtual Private Cloud (VPC) to ensure network isolation.
* MongoDB Atlas automates infrastructure provisioning, setup, and deployment so your teams can get the database resources they need, when they need them. Patches and minor version upgrades are applied automatically.

1. **System Analysis and Planning**

* **Existing System and its Drawbacks**
* **Feasibility Study**
* **Requirement Gathering And Analysis**

# Existing System and its Drawbacks

**Our aim is to reach people through the latest news and students also have a way of learning new languages by instant blog.**

* **Following are some drawbacks of existing system :**

**Feasibility Study :-**

All projects are feasible, provided that unlimited resources and infinite time are available. However, in real world that can sound like dream. Especially computer-based systems are likely to be bounded by limited resources as well as time. Feasibility & risk is related in many ways. If the risk is great then feasibility of producing quality software is reduced.

### Technical Feasibility

This project does require that much of higher & advanced technology. It’s requires database Interaction and it requires to be accessed via web or internet. This can be easily done. It must be developed within the four months of period excluding the time period for the testing and validation, verification. Thus, it seems that the project is technically feasible to do.

### Economic Feasibility

In This project, we will require to not purchasing much of the tools like web cameras to take the photograph of a person or shut Video of that person, but as it will be web-enabled we do not have any extra cost of setting up a network. This is also feasible economically.

### Operational Feasibility

The web application can be beneficial only if it satisfies the organization requirement; in such a way that resource utilization & optimum outcome is justified. A web application should not only be robust but should also be able to work Simultaneously with other systems. Operational feasibility means that web application should not affect any existing system during the development phase or even in the implementation phase

### Management Feasibility

Management feasibility ratio and aspect of management News. Here all level of management rise of related basic feasibility and gives their decision for all those feasibilities to use or not is not comes in basic feasibility of system, bus how the requirement of that all, after that all manager.

### Time Feasibility

Time feasibility describes the time cost for converting the existing system to web application. As a for completion. This System is Develop under the time period of just four months so we can say that this system is time Feasible.