

A Progress Report

on

NODEBUS

*carried out as part of the WEB TECH
Submitted by*

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COMPONENTS OF A PROJECT REPORT

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Introduction

A blog(a blend of the term web log) is a type of website or part of a website, which is the publication of regular articles over time in some area of personal or professional interest. Blogs are usually maintained by an individual with regular entries of commentary, descriptions of events, or other material such as graphics or video. Blog can also be used as a verb, meaning to maintain or add content to a blog. There are many different types of blogs, differing not only in the type of content but also in the way that content is delivered or written. The personal blog, an ongoing diary or commentary by an individual, is the traditional, most common blog. Personal bloggers usually take pride in their blog posts, even if their blog is never read. Blogs often become more than a way to just communicate; they become a way to reflect on life, or works of art. Blogging can have a sentimental quality. Few personal blogs rise to fame and the mainstream but some personal blogs quickly garner an extensive following. One type of a personal blog, referred to as a microblog, is extremely detailed and seeks to capture a moment in time. Some sites, such as Twitter, allow bloggers to share thoughts and feelings instantaneously with friends and family, and are much faster than emailing or writing. It helps build a strong relationship with your readers and potential customers and ultimately leads to increased sales without the need for traditional hard selling. One very popular form of content marketing is to post great content to your blog on a regular basis. The purpose of a blog is to provide content on your website that answers your prospective customers' questions and helps them learn about your product or service. It expands your brand's visibility by giving Google and other search engines content to index and serve up in search results. Individual expression has evolved into a new and useful form. Blogs have become an important form of emotional and informational release for a growing proportion of the population. Commencing with an overview of the development of the blog, this paper takes the reader through a journey of understanding, explaining why blogs are important, how they work, who writes, and who reads them. Ultimately, the paper explains how blogs can be used for research, the opportunities of using blogs as research input, as well as the problems this usage involves.

1.1. Problem Statement

Blogging provides anyone with the opportunity to publish content and the potential to make money. Because of this, there are hundreds or thousands of new blogs launched every day. Unfortunately, there are some significant challenges that most new bloggers face, and in many cases the challenges are significant enough to lead the blogger to give up.

In this post we'll look at five problems that many bloggers face, especially in the early days of their blog, and we'll also look at some ways that these problems can be overcome

1.1.1 No Comments from Visitors/Readers

It can be very frustrating to dedicate time creating a blog post, only to sit and wait for comments that never come. The interactive aspect of blogging is what draws many people to get started with their own blog, but in reality many new blogs have trouble attracting comments. If you find that your blog posts don't usually get the attention or feedback that you had hoped for, you're not alone.

1.1.2. Respond to the Comments that we Get

You can show the commenters that you appreciate their comments by responding, and you can also take a moment to visit their blog and leave a comment. Many commenters will enter a URL of their blog when posting their comment, and they'll appreciate seeing that you have taken the time to visit their site and leave a comment. This helps to build the community of a new blog, and once the community has been developed other things get much easier.

1.1.3. Ask Questions (comment section)

In your post content, especially at the end of posts, ask questions to your readers. Make it clear that you are seeking their feedback, and even ask

for their opinion. One of the best ways to increase the number of comments that you get is to simply encourage it in this way.

1.1.4. No Clear Purpose

Every blog should have a clear purpose. If you're maintaining a personal blog your focus is probably just to communicate with friends and family, so you can pretty much post whatever you want. But if you are blogging for business purposes you should have an idea of what you want to get out of blogging. Many people start blogs because other people are doing it and they feel that it is important, but they don't always know specifically why. If your blog does not have a clear purpose it will be difficult to retain the interest of your visitors. They may like one post that they stumble across, but the other content may not be of any interest to them, so they'll stop coming back.

1.2.Objective

By my analysis on website, I was expected that for common people to develop website , they have to face many problems and also they want to share their knowledge, technology, articles, etc.

The objective of our Project is to provide all its user with easy access to relevant, and by using provide them Choosing facility to component.

People will make their blog using choose their style, template, etc.

1.3.Scope of Project

The first activity in the project planning is the determination of software scope. Function and performance allocated to software during system engineering should be assessed to establish a project scope that is unambiguous and understandable at the management and technical levels.

Software scope describes the data and control to be processed, function, performance, constraints, interfaces, and reliability. Functions described in the statement.

The availability of historical information has a strong influence on estimation risk. By looking back, we can emulate things that worked and improve areas where problems arose.

When comprehensive software metrics are available for past projects, estimates can be made with greater assurance, schedules can be established to avoid past difficulties, and overall risk is reduced.

Defining the software scope for this project we have to collect information from the company networking person by asking some questions. These questions includes like from which server, how many clients, solutions to connect client to server etc.

2.Analysis

Feasibility Study

2.1Time Schedule Feasibility

- The estimated time duration based on the complexity of the project requires about 10 months.
- The organisation and The University allow us to develop our project work within the specified time duration.

2.2.Operational Feasibility

- **Performance:** - Current mode of operation of the web-portal provides instantaneous actions & responses such as getting registered and taking appointments by SMS and E-Mail. It also provides room for donating organ by willing user and getting its authority.
- **Information:** - The web-portal provides all the information to the Administrator.
- **Economy:** - Instantaneous actions can save lot of time as well as information is presented in digital form so can reduce the cost of stationary items of information archive.
- **Control:** - Authentication based access to the system. Prevents also from SQL Injection attacks. Information is available only to the authorised users of the system.

- **Efficiency:** - All the available resources can be utilised at maximum.
- **Services:-**All the facilities provided by web-portal are reliable and the system can be expandable for future enhancements.
-

Functional Requirements

User Requirement

User who using this website should have their identity proof (Email id) for registration.

NON FUNCTIONAL REQUIREMENTS

There are lots of features that we have included in the software. But some of them were described over here.

1. Easy to maintain records:

All the records are stored in the site database.

2. Less Time Consuming

All the entries are done easily so it requires less time and also calculation is done automatically through computer so take less time.

3. Editing of Data:

Easy to change the record.

4. No redundancy of data

Not allowed duplicate or fake account

Features Of New System.

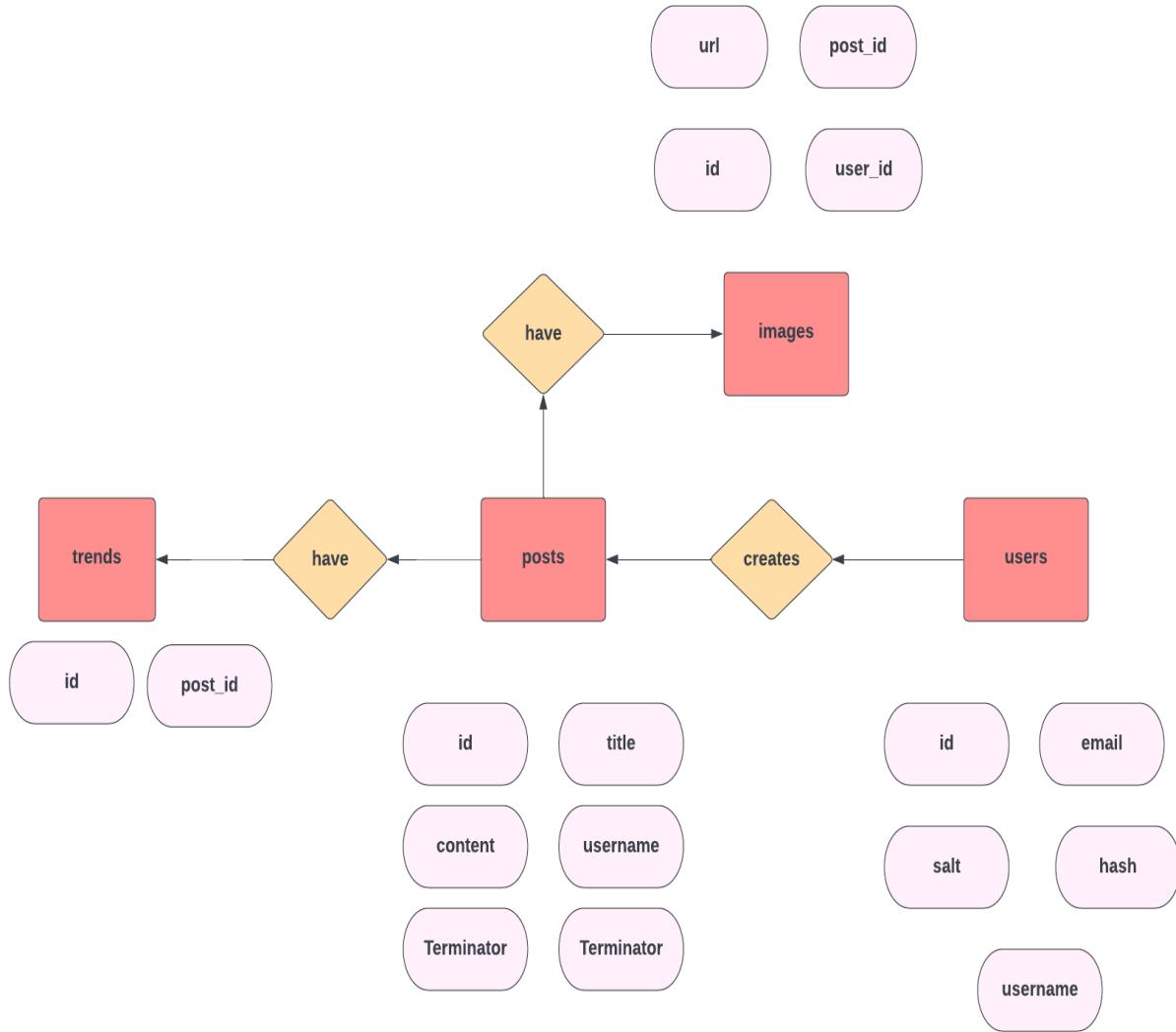
- Tips for the visitors.
- Online help about System.

- Online registration for the visitors to get notified for the various function and activities performed by the organisation through out the year.
- Online comments.
- Mailing system and SMS for the users who are seeking information.
- Optimised search for all users about any Blog.
- Simple and effective service to all its user in very less amount of time.

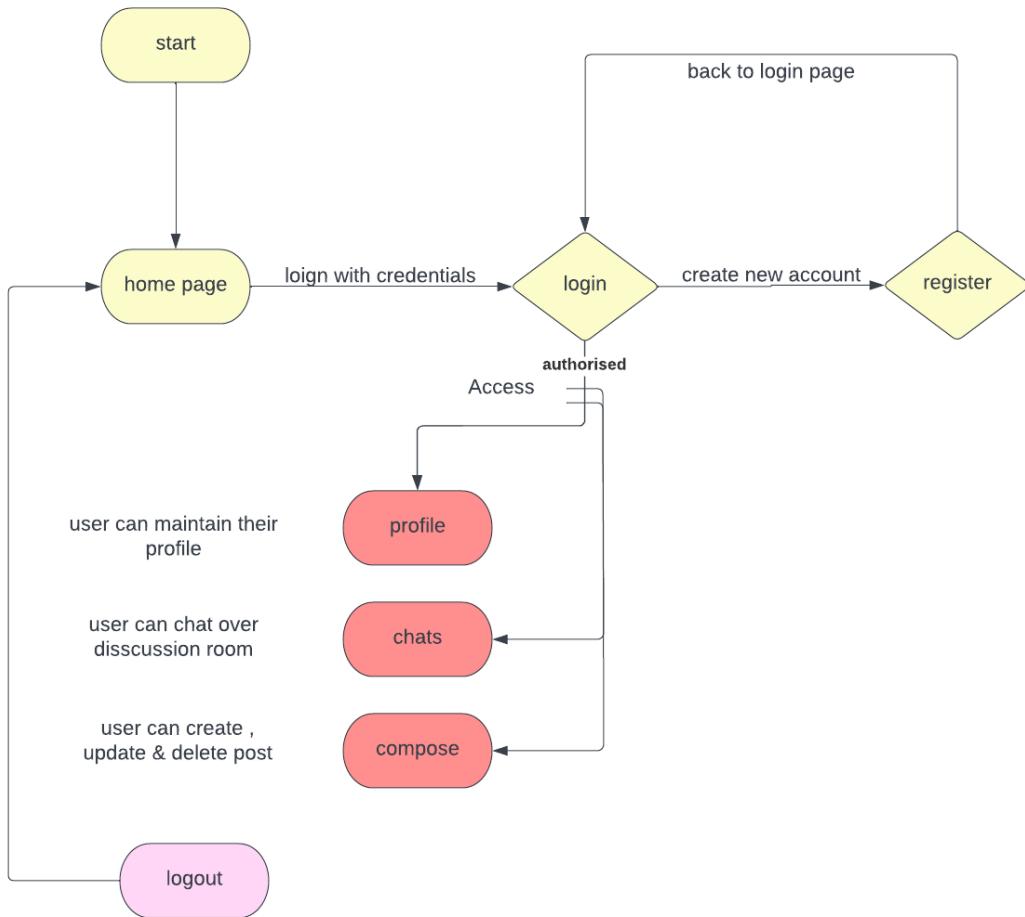
3.System Design & Methodology

1.System Architecture

ER-DIAGRAM



Activity diagram



3.2.Development Environment. (H/w & S/W)

v Tools And Technology

- macOS
- Microsoft visual studio2010.

- .Net FrameWork 4.0.

v Hardware

- Motherboard (pIV).
- core 2 duo.
- RAM of 1GB.
- 80GB HDD.

3.3.Methodology: Algorithm/Procedures

Step 1 : Create all ejs pages for structural pages to be rendered

Step 2: Direct all the routes to the ejs pages using express

Step 3: Create schemas for post and user

Step 4: Build auth and login system using passport js

Step 5: Connection to the database (mongodb)

Step 6: Create clouddinary account and generate url for hosting images

Step 7: Render all the post to home page

Step 8: Create separate user experience interface

Step 9 : Create common chatting rooms for discussion

Step 10: Create search system using AJX and mongodb adaptor

3.4.Detailed Design Methodologies

Search

On this web site two type of user can search the book one is registered and another is unregistered. Registered user have to fill the form and then he/she can search or buy the Products but unregistered can only search the Products not buy the Product until they did not get the registered user.

Registration Form

Shop will place registration form on the site. In this buyer interact with the shop. Buyer will get registration form from the site and fill those forms and submit on the site. Shop will store these registration forms in their database. In this we have to fill first name, last name, address, e-mail, etc.

Entity Relationship Diagram

Entity relationship diagrams are a way to represent the structure and layout of a database. It is used frequently to describe the database schema. ER diagrams are very useful as they provide a good conceptual view of any database, regardless of the underlying hardware and software. An ERD is a model that identifies the concepts or entities that exist in a system and the relationships between those entities. An ERD is often used as a way to visualise a relational database: each entity represents a database table, and the relationship lines represent the keys in one table that point to specific records in related tables.

ERDs may also be more abstract, not necessarily capturing every table needed within a database, but serving to diagram the major concepts and relationships. This ERD is of the latter type, intended to present an abstract, theoretical view of the major entities and relationships needed for management of electronic resources. It may assist the database design process for an e-resource management system, but does not identify every table that would be necessary for an electronic resource management database.

Objects

There are three main objects on an ER Diagram:

1. Entities
2. Relations
3. Attributes.

Entities

An entity is a concept or object in the database. Entities are concepts within the data model. Each entity is represented by a box within the ERD. Entities are abstract concepts, each representing one or more instances of the concept in question. An entity might be considered a container that holds all of the instances of a particular thing in a system. Entities are equivalent to database tables in a relational database, with each row of the table representing an instance of that entity.

Attributes

The Supplier Name, Supplier Address, Telephone Number etc. A given attribute belonging to a given entity occurrence can only have one value. Therefore, if a supplier could have more than one address or telephone number then this should be determined before defining the attributes of that entity type. In this example the defined entity may require two or three address and/or telephone number attributes. It is the maximum practical instances of a given attribute that should be catered for in the entity type definition.

Relationships

Relations are the connections between two or more entities. Relationship lines indicate that each instance of an entity may have a relationship with instances of the connected entity, and vice versa. Each entity type can always be described in terms of attributes, and these attributes will apply to all occurrences of that given entity type

4. Work Done

4.1. Work done till date

Till now we have created a content posting feature ,All of the post are stored in database (mongodb) and rendered to the home page.User can login using google account or either

register for our website using email Account . User can upload title image to its post which is also rendered along with the post content the time at which the post was made is also stored in database and rendered along . A separate chats page has been created so as to further include the discussion room option for the users only a logged user can create post from compose page . Separate blog page is created for every post present in the database, there are likes , seen , save and comment option for users to interact with the blogs. User can also update his profile by getting into the setting section.

4.2. Upcoming work to do

We still need to create search feature and discussion room for the users also we need to add few basic things like to give the option to delete and modify user's own post .

Technologies Used

Front End

1. html

HTML HyperText Markup Language is used to create Web pages and tells the browser how to display them. It designs the basic layout and formatting of Web pages. HTML is made up of elements or tags and attributes which work together to identify document parts and tell the browser how to display them.

2. css

The purpose of CSS is to provide Web developers with a standard way to define, apply, and manage sets of style characteristics. CSS provides these capabilities through a technical model based on a hierarchical scope of effect, the separation of style from content, and a well-defined set of published standards.

3. bootstrap

Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use, yet features numerous HTML and

CSS templates for UI interface elements such as buttons and forms. Bootstrap also supports JavaScript extensions.

4. Javascript

JavaScript is a light-weight object-oriented programming language that is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language. JavaScript enables dynamic interactivity on websites when it is applied to an HTML document.

Javascript helps the users to build modern web applications to interact directly without reloading the page every time. JavaScript is commonly used to dynamically modify HTML and CSS to update a user interface by the DOM API. It is mainly used in web applications.

Back End

1. NodeJs

Node.js, written by Ryan dahl in 2009, is an amalgamation of the V8 JavaScript chrome engine, a I/O (Input/Output) API and an event loop [12]. Node.js utilizes event driven, non-blocking I/O model making it lightweight, coherent and ideal for data-intensive real-time web applications that run across distributed devices [13]. V8 provides Node.js with a boost in performance by performing straight compilation into native machine code instead of using an interpreter. [13] Node.js provides JavaScript developers with a unique opportunity as the backend program can be written using JavaScript. It avoids the inconvenience for JavaScript developers to learn other programming languages for the back end\

2. Express

Express JS Express was designed by TJ Holowaychuk who outlined Express as a web framework influenced by Sinatra, a web framework built on Ruby [17]. “Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications” as stated by Express website. [18]It is built upon Node.js core http module and connect components. Express provides libraries for core Node.js modules that are robustly tested and maintained. This helps developers to avoid the inconvenience of writing similar code for the same Node.js module while building applications. Express also allows for sophisticated reuse of code along with a Model-View-Controller (MVC)- like design for web applications.

3. Mongodb

MongoDB MongoDB is a flexible, scalable and document-oriented database. It is not a relational database. [25] It is based on a document data model where data is stored in key-value pairs. [26] The size of data stored by applications are expanding which has brought the need for scaling databases of applications. This leaves developers with two choices, either scaling up or scaling out. Scaling up requires expensive and big machines and in due course even that machine will not be enough. The other option is scaling out for which MongoDB was developed. The document data model of MongoDB helps to slice data across several servers. The maintenance of data and load are taken care of by MongoDB along with rearranging data and routing operations to the expected server. [25] MongoDB not only allows users to perform database operations but also has features that make it unique from other databases. These features are following • MongoDB has common sub-indexes and gives distinct, composite, geospatial and complete text indexing abilities. Sub-indexes on hierarchical design are supported, enabling developers to have the capability to model in procedures that complement their application. • MongoDB offers a platform for data integration built on the principle of data production channels. Aggregation channels allow you to create complex analytics engines by manipulating data on the server side in a sequence of steps, maximizing the benefits of database optimizations. • MongoDB allows time-to-live (TTL) collections for data ought to expire after a specified period, such as meetings, and fixed-size (capped) collections for data that should be retained indefinitely, such as logs. MongoDB also supports fragmented indexes that are restricted to documents that meet a defined requirements filter, which improves performance and reduces the amount of storage needed. • MongoDB provides an intuitive protocol for storing massive files and their metadata. [25]

4. Passportjs

Passport is authentication middleware for Node. js. Extremely flexible and modular, Passport can be unobtrusively dropped in to any Express-based web application. A comprehensive set of strategies support authentication using a username and password, Facebook, Twitter, and more.

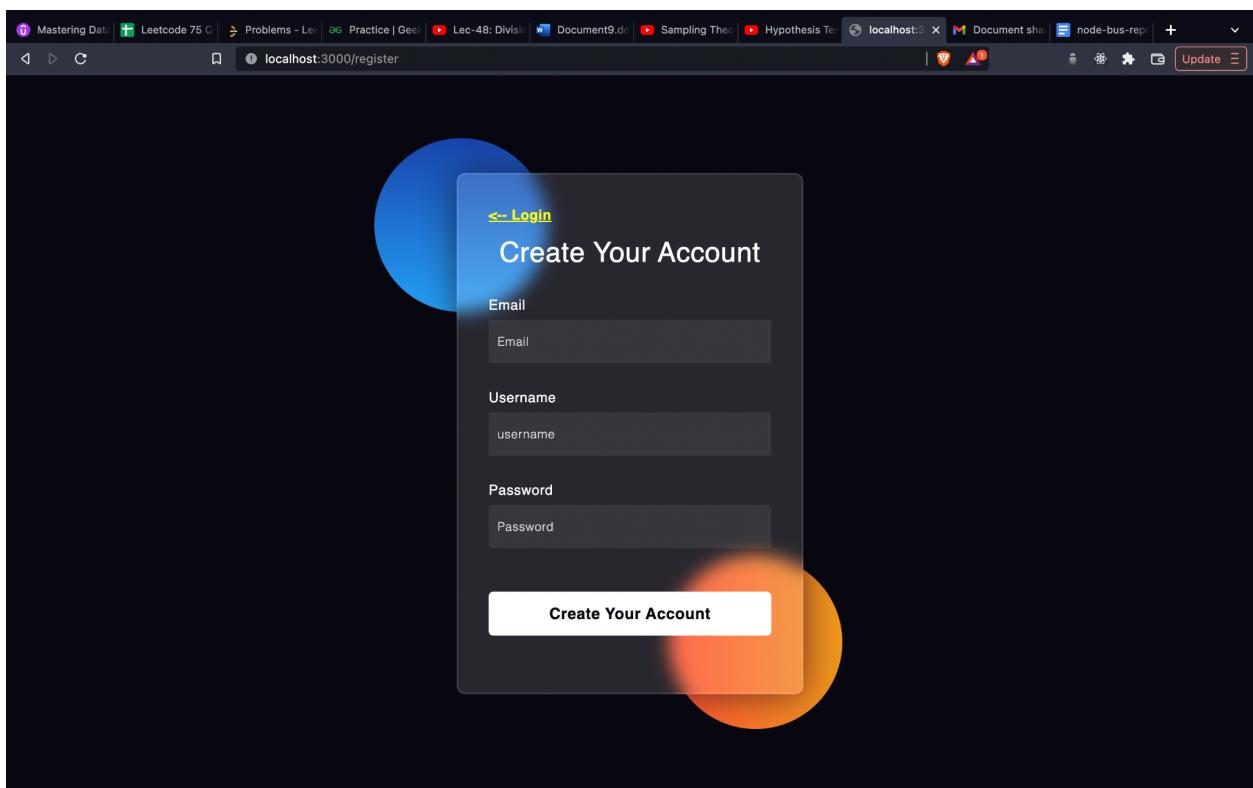
5. EJS

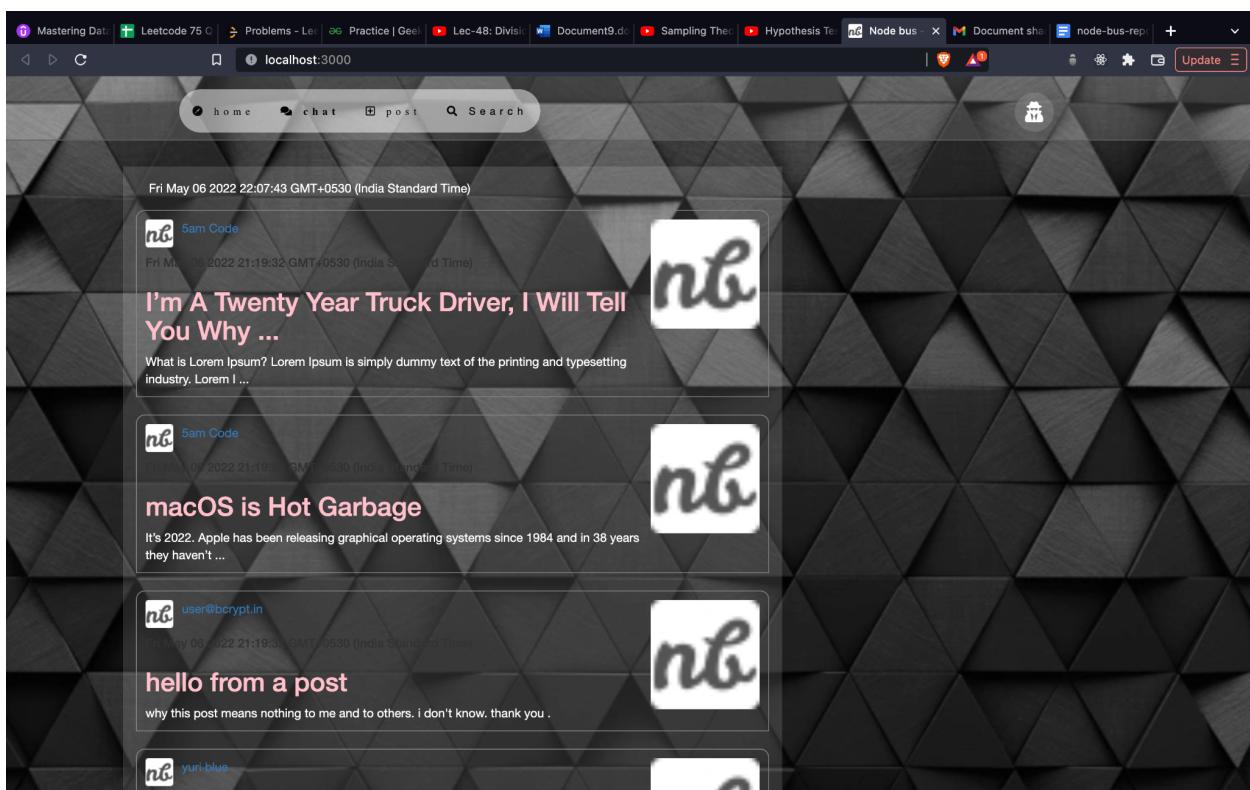
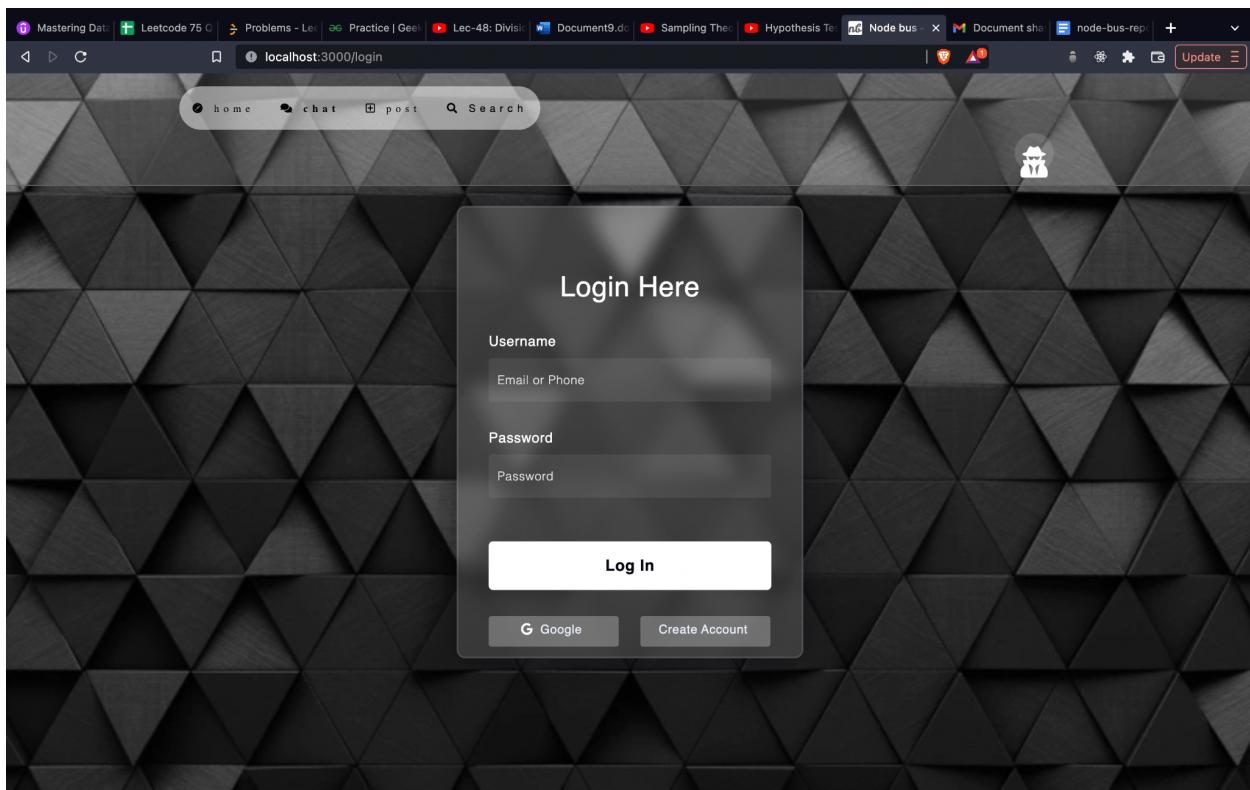
EJS (Embedded JavaScript Templating) is one of the most popular template engines for JavaScript. As the name suggests, it lets us embed JavaScript code in a template language that is then used to generate HTML.

6.Cloudinary

Cloudinary provides an enterprise-grade, media experience platform for all rich media types. Using AI, automation, and advanced image and video processing capabilities, we remove the hassle of manual digital media requirements and provide a clear path for companies to deliver amazing visuals at scale

ScreenShots





I'm A Twenty Year Truck Driver, I Will Tell You Why America's "Shipping Crisis" Will Not End

What is Lorem Ipsum?
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Why do we use it?
It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

Where does it come from?
Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from sections 1.10.32 and 1.10.33 of "de Finibus Bonorum et Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32.

The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those interested. Sections 1.10.32 and 1.10.33 from "de Finibus Bonorum et Malorum" by Cicero are also reproduced in their exact original form, accompanied by English versions from the 1914 translation by H. Rackham

comment bar:

Compose++

Title

PostCard

PUBLISH

Source CODE- <https://github.com/prady8339/node-bus>

or

Source CODE- <https://github.com/ar7aditya/node-bus>