



Blogging Website

A MINI-PROJECT REPORT

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Web Programming Lab

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Course Code: (16CS471)

Submitted to:

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CERTIFICATE

This is to certify that Bharat Nilam and Dhruva Santosh bearing USNs ENG17CS0050 and ENG17CS0070 has satisfactorily completed his Web Programming Lab Mini Project as prescribed by the University for the 7th Semester B.Tech programme in Computer Science & Engineering for the Web Programming Lab (16CS471) course during the year 2020 at the School of Engineering, Dayananda Sagar University, Bangalore.

Date:

Signature of Supervisor

Max Marks	Marks Obtained

Signature of Chairman
Department of Computer Science & Engineering

Abstract

The importance of blogging is huge on the Internet. Blogging helps teachers to connect with students. Blogging helps business owners to engage with customers. Blogging connects similar thinkers and communities of people worldwide. Blogging helps to get more website traffic from search engines. Blogging helps journalists to share personal views on the cause with their fans. Blogging helps politicians to connect with citizens.

Blogging helps students to explore a new solution to the old problem. Blogging helps search engine users to find appropriate and effective information and knowledge. Blogging help individual and companies to earn passive income.

Blogging helps Google to display run their own search business or display quality search results, and also to earn money by displaying relevant or native ads on blogs monetized with Google Adsense

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1 Introduction

A blog (a shortened version of “weblog”) is an online journal or informational website displaying information in reverse chronological order, with the latest posts appearing first, at the top. It is a platform where a writer or a group of writers share their views on an individual subject.

In 1994, when blogs began, a blog was more of a personal diary that people shared online. In this online journal, you could talk about your daily life or share about things that you were doing. Then, people saw an opportunity to communicate information in a new way online.

2 Problem Definition

To design a blogging website that can be deployed to the internet to be more of an informational website or it can be kept private to be a personal journal.

3 Operational Definition

- The website contains the posts in reverse chronological order.
- The user needs to type the post in a Markdown file according to a set syntax (Format: “year-month-day-name.md”, where year is a four-digit number, and month and day are two-digit numbers. “Name” can be anything you want, that will help you remember what this post was about. The “md” extension is for markdown documents) which is uploaded onto the GitHub repository dedicated to the blog website.
- The posts (Markdown files) are stored in a folder called Posts on the repository.
- The website refreshes as more posts are uploaded or whenever the repository is edited.

4 Scope of the Project

Promote blogging through an easy to make and easy to deploy blogging website using Git and Jekyll.

5 Existing System

Existing systems consist of multiple themes and customizable and dynamic web pages and can also include different widgets that can be integrated with the web page.

6 Proposed Solution

The Proposed project is to promote blogging as a form of catharsis which can improve mental health, it can be used as a journal which can help to keep track of activities and can also be useful/informational to the people who read the posts.

7 Software and Hardware Requirements

- Software Requirements:
 - OS: OS X, Windows, Linux
 - Language: Ruby, HTML, CSS, JS
 - Browser: Chrome or Firefox
- Hardware Requirements:
 - Processor: Core 2 Duo or Better
 - RAM: 1 GB
 - Storage: 100MB or above

8 Pseudo-code

default.html

```
<!DOCTYPE html>
<html lang="{{ page.lang | default: site.lang | default: "en" }}">

  {%- include head.html -%}

  <body>

    {%- include header.html -%}

    <main class="page-content" aria-label="Content">
      <div class="wrapper">
        {{ content }}
      </div>
    </main>

    {%- include footer.html -%}

  </body>

</html>
```

home.html

```
<!DOCTYPE html>
<html lang="{{ page.lang | default: site.lang | default: "en" }}">

  {%- include head.html -%}

  <body>

    {%- include header.html -%}

    <main class="page-content" aria-label="Content">
      <div class="wrapper">
        {{ content }}
      </div>
    </main>

    {%- include footer.html -%}

  </body>

</html>
```


page.html

```
---
layout: default
---
<article class="post">

  <header class="post-header">
    <h1 class="post-title">{{ page.title | escape }}</h1>
  </header>

  <div class="post-content">
    {{ content }}
  </div>

</article>
```

post.html

```
-----
layout: default
-----
<article class="post h-entry" itemscope itemtype="http://schema.
  org/BlogPosting">

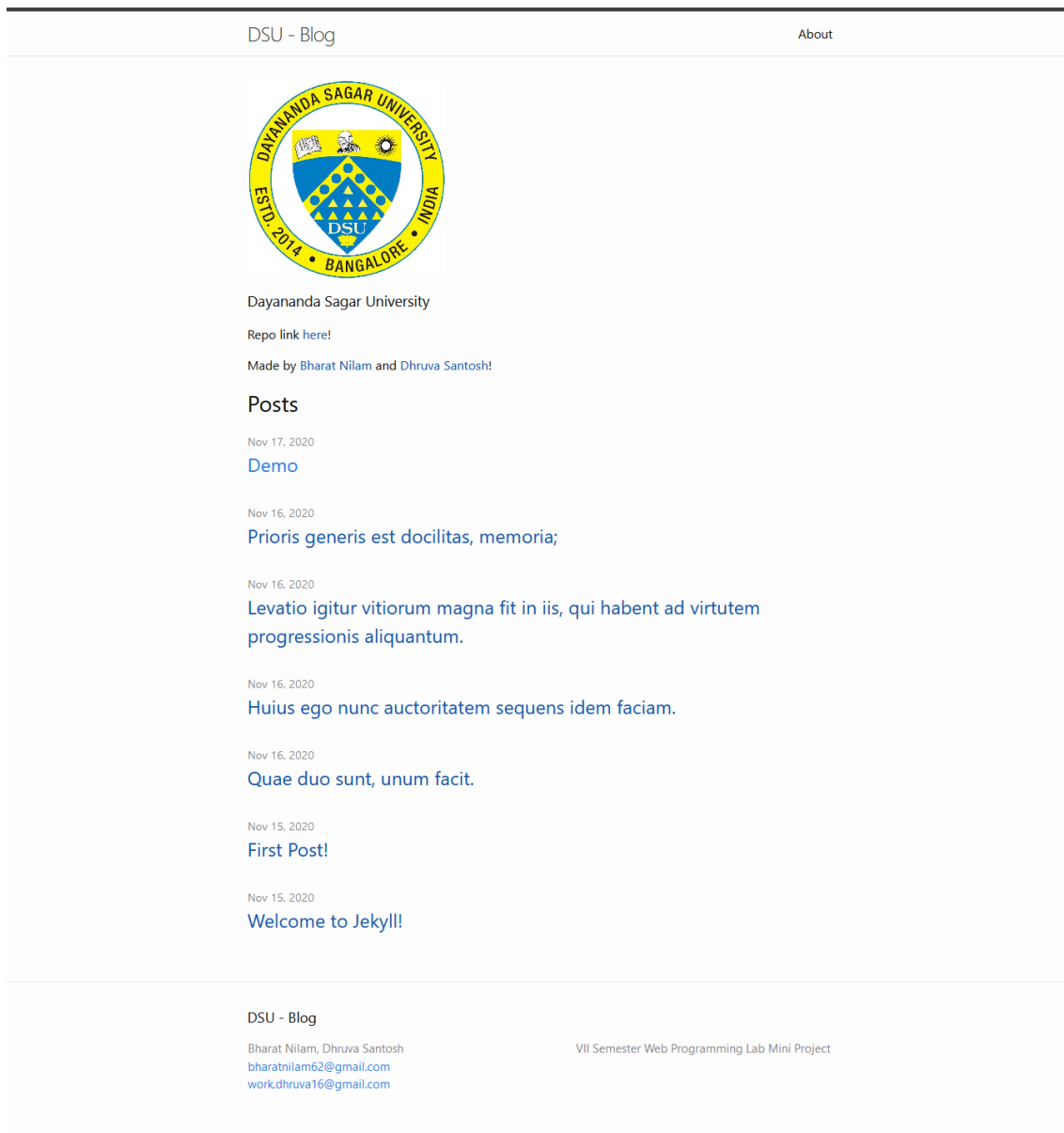
  <header class="post-header">
    <h1 class="post-title p-name" itemprop="name headline">{{
      page.title | escape }}</h1>
    <p class="post-meta">
      <time class="dt-published" datetime="{{ page.date |
        date_to_xmlschema }}" itemprop="datePublished">
        {%- assign date_format = site.minima.date_format |
          default: "%b %-d, %Y" -%}
        {{ page.date | date: date_format }}
      </time>
      {%- if page.author -%}
        <span itemprop="author" itemscope itemtype="http://
          schema.org/Person"><span class="p-author h-card"
            itemprop="name">{{ page.author }}</span></span>
      {%- endif -%}</p>
    </header>

    <div class="post-content e-content" itemprop="articleBody">
      {{ content }}
    </div>

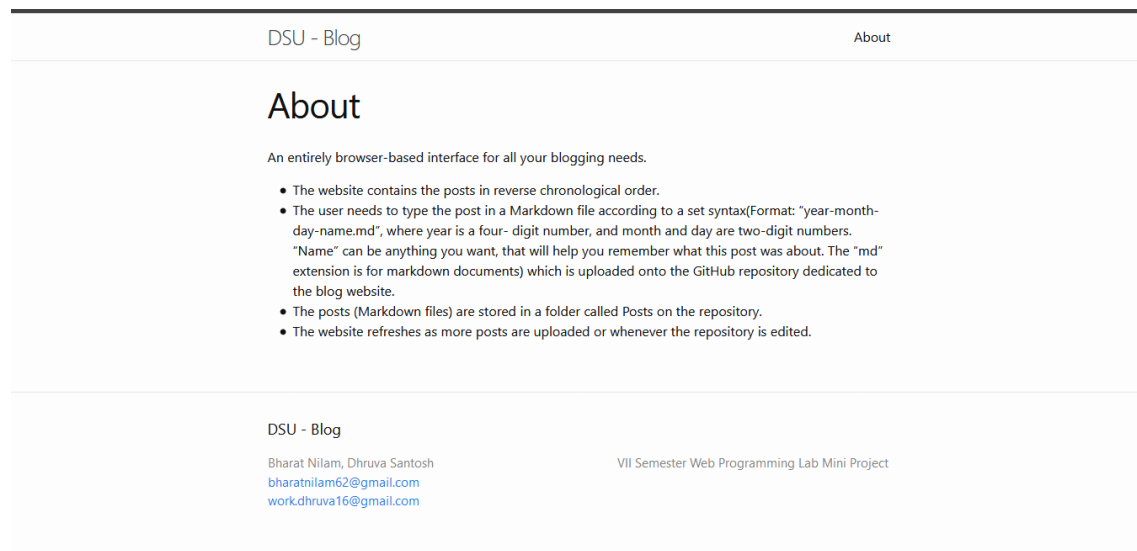
    {%- if site.disqus.shortname -%}
      {%- include disqus_comments.html -%}
    {%- endif -%}
```

```
{%- endif -%}  
  
<a class="u-url" href="{{ page.url | relative_url }}" hidden  
  ></a>  
</article>
```

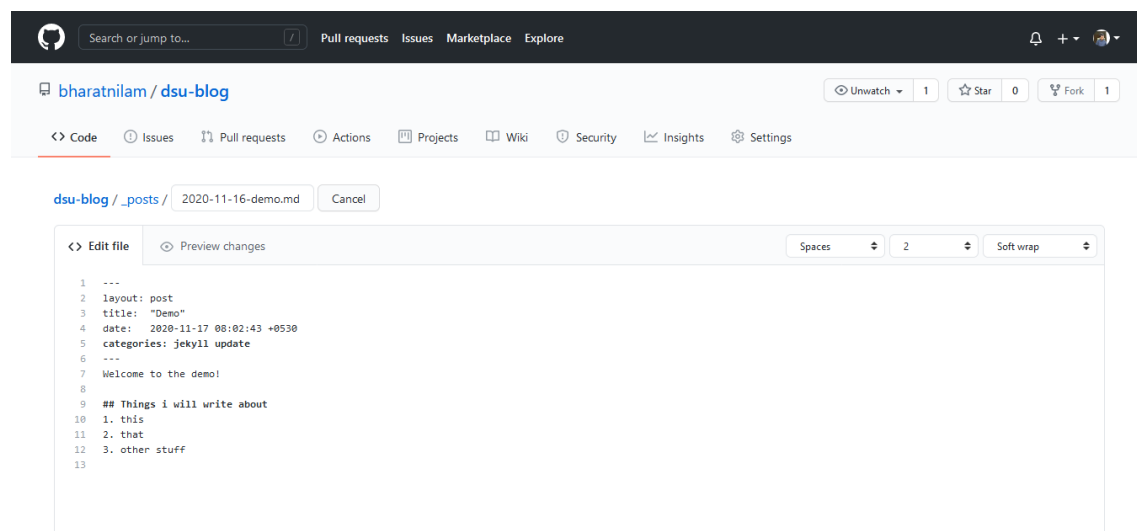
9 Output Screenshots



Home Page



About Page



Creating post on GitHub

Prioris generis est docilitas, memoria;

Nov 16, 2020

The quick brown fox jumps over the lazy dog

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sin aliud quid voles, postea. Si longus, levis; Odium autem et invidiam facile vitabis. Duo Reges: constructio interrete. Nobis aliter videtur, recte secusne, postea; Atqui reperies, inquit, in hoc quidem pertinacem;

Quid sequatur, quid repugnet, vident.

Efficiens dici potest. *Quae sequuntur igitur?*

In primo enim ortu inest teneritas ac mollitia quaedam, ut nec res videre optimas nec agere possint.

Non perfecti autem homines et tamen ingeniis excellentibus praediti excitantur saepe gloria, quae habet speciem honestatis et similitudinem.

Illa tamen simplicia, vestra versuta. Quid me istud rogas? **Peccata paria.** **Quorum altera prosunt, nocent altera.** Quis istud, quaeso, nesciebat? Tecum optime, deinde etiam cum mediocri amico.

Neque enim civitas in seditione beata esse potest nec in discordia dominorum domus;

DSU - Blog

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Post Screenshot 1

Huius ego nunc auctoritatem sequens idem faciam.

Nov 16, 2020

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Erit enim mecum, si tecum erit. Si enim ad populum me vocas, eum. Cum audissem Antiochum, Brute, ut solebam, cum M. Duo Reges: constructio interrete. Equidem e Cn.

Haec dicuntur inconstantissime.

Idemque dividerunt naturam hominis in animum et corpus.

Istic sum, inquit.

Si quicquam extra virtutem habeatur in bonis.

Etiam beatissimum?

Consequentia exquirere, quoad sit id, quod volumus, effectum.

A mene tu?

Non enim iam stirpis bonum quaeret, sed animalis.

1. Qui non moveatur et offensione turpitudinis et comprobatione honestatis?
2. Quae similitudo in genere etiam humano apparet.
3. Itaque nostrum est-quod nostrum dico, artis est-ad ea principia, quae accepimus.
4. Quid est, quod ab ea absolvi et perfici debeat?
5. Si alia sentit, inquam, alia loquitur, numquam intellegam quid sentiat;

Nec lapathi suavitatem acupenseri Galloni Laelius anteponebat, sed suavitatem ipsam neglegebat;

Sed ad bona praeterita redeamus. Quodsi ipsam honestatem undique perfectam atque absolutam. Aliter enim nosmet ipsos nosse non possumus. Sit sane ista voluptas. Comprehensum, quod cognitum non habet? Itaque fecimus.

DSU - Blog

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Post Screenshot 2

References

- [1] Jekyll Documentation: Blog -aware, static site generator written in Ruby.
<https://jekyllrb.com/docs/>
- [2] CSS (Cascading Style Sheets): CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed.
<https://devdocs.io/css/>
- [3] HTML: Markup language for documents designed to be displayed in a web browser.
<https://devdocs.io/html/>
- [4] GitHub Pages: Website hosting from GitHub repository.
<https://docs.github.com/en/free-pro-team@latest/github/working-with-github-pages>
- [5] Git: Git is a distributed version-control system for tracking changes in source code during software development.
<https://git-scm.com/doc>