

A project report on

PERSONAL BLOGGING WEBSITE

Submitted in partial fulfillment of requirements for the award of degree in

DEPARTMENT OF COMPUTER APPLICATIONS

Of

BENGALURU CITY UNIVERSITY

BENGALURU

Submitted by

Anubhav Lal [R1920620]

Nehal Deb [R1920689]



ACHARYA INSTITUTE OF GRADUATE STUDIES

(NAAC Reaccredited 'A' Grade and Affiliated to Bengaluru City University)

1#89/90, Soladevanahalli, Heseraghatta Road, BENGALURU – 560107

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UNDER THE GUIDANCE OF

Prof. Swetha C V

Assistant Professor

Department of Computer Applications

AIGS, Bengaluru



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UNDERTAKING

Anubhav Lal (R1920620), Nehal Deb (R1920689) studying in 5th Semester BCA at A.I.G.S hereby undertake that the project has been carried out by us as a part of fulfilment of the requirements of the award of the degree as prescribed by Bengaluru City University. The project was carried out at **Acharya Institute of Graduate Studies (A.I.G.S)** under the guidance of **Prof. Swetha C V**. This project has not formed the basis for the award of any other degree of Bengaluru City University.

Signature of the students

1. _____

2. _____

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Soladevanahalli, Heseraghatta Road, Bengaluru-560107

Department of Computer Applications



ACHARYA

CERTIFICATE

This is to certify that the project entitled

Blogger's Den

Submitted in partial fulfilment of the requirement of the degree of
Bachelor of Computer Application is a result of the bonafide work carried out

by

Anubhav Lal (R1920620)

Nehal Deb (R920689)

During the academic year 2021-2022

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Life enhances better opportunity with better blessings with adequate space and time. It was a great blessing for doing this Project titled “BLOGGER’S DEN”, where I have put into all my efforts and dedication towards it resulting in getting undiscovered knowledge, better experiences, and ideas behind. To give brighter and broader measures there has been a few concerns supportive to make this project to be real time application, without which my project would have been meaningless.

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I would also like to extend my thanks and gratitude to every faculty of BCA Department and to my family inmates and friends who were concerned for the project.

Thank you everyone.

Anubhav Lal (R1920620)

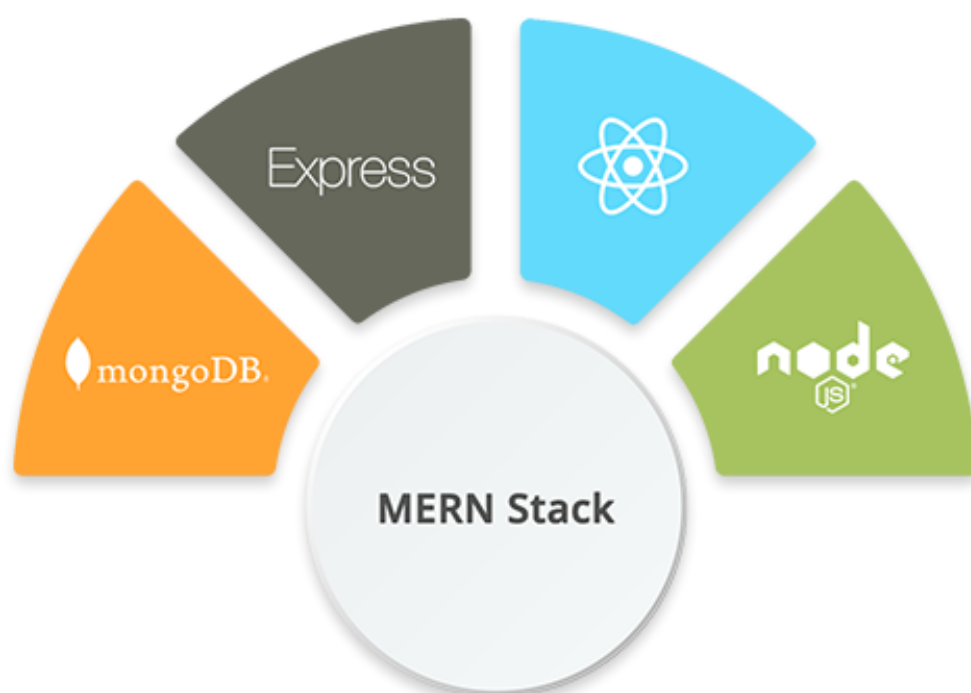
Nehal Deb (R1920689)

ABSTRACT

Blogs normally consists of a collection of posts. It is a type of website that is like a diary or journal. Blog organizes content in the form of categories and posts. Posts on a blog are presented in reverse chronological order. That means your latest post goes to the top of the page. That way, when you make a new post, it will come first and the first post will go below it. Bloggers (a word for people who write on blogs) often write about their opinions and thoughts. “**Blogger’s Den**” is a web-based project/application for creating personal blogs. The main objective of this project is to build an app where a user can express their own thoughts. It can be updated with new information on an ongoing basis. Blogs may be short, informal, controversial, or more professional. Blogs can be updated consistently and provides the option for readers to comment or ask questions on individual posts. This encourages the readers to engage with the author.

“Blogger’s Den” is a simple and easy to use application with a very clean user interface to ensure the user does not face any difficulty in operating the application.

It is a MERN stack application which means it uses ReactJS with Material-UI (framework) for the front-end styling and for the back-end NodeJS with ExpressJS (framework) is used. The data is stored on a serverless database called MongoDB.



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1. INTRODUCTION

1.1 Project Introduction

The “Blogger’s Den” is developed to overcome the problems prevailing in the practicing manual system. This application is supported to eliminate and, in some case, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of a single user to carry out operations in a smooth and effective manner.

The main challenges to overcome were managing the updated information of Blogs and Images. Every person likes to have different category of blogs which he/she would like to write on.

The application is reduced as much as possible to avoid errors while entering the data. No formal knowledge is needed for the user to use this system. Thus, by this all proves it is user friendly. It assists the user to concentrate on their productivity.

1.2 Purpose of the project

The purpose of this project is to create a blog application by the help of computerized equipment and full-fledged computer software, fulfilling their requirements so that their valuable data/information can be stored for a longer period with the easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

The project, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. That means that the user need not be distracted by the information that is not relevant, while being able to reach the information.

2. LITERATURE SURVEY

2.1 EXISTING SYSTEM

The existing system for online blogs includes traditional methods like just writing texts without images or comments, which are too slow and unpleasant to watch. With the advancement of internet, writing blogs online is very interesting and fun thing to do., which makes the blog writing a common thing now a days. Again, most of these are limited to the have technical skills, the writers are required to have the knowledge of the technologies for putting the logs online in the internet.

2.1.1 PROPOSED SYSTEM

Bloggers Den is developed to provide an effective means for the writers to post blogs to their page without any hassle. In addition, Writers can view and update their blogs, title and image at any time. This makes the application user-friendly. Blogger's Den is web-based application providing flexibility for the users.

2.2 FEASIBILITY STUDY

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential. Three key considerations involved in the feasibility analysis are:

2.2.1 Economic Feasibility

This study is carried out to check the economic impact will have on the system will have on the organization. The amount of fund that the company can pour into the research and development of the system is limited. The expenditures must be justified. Thus, the developed system was within the budget and this was achieved because most of the technologies used are freely available. Only the customized products have to be purchased.

2.2.2 Technical Feasibility

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This will lead to high demands being placed on the client. The developed system must have a modest requirement, as only minimal or null changes for the implementing this system.

2.2.3 Operational Feasibility

The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods that are employed to educate the user about the system and to make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive criticism, which is welcomed, as he is the final user of the system.

2.3 TOOLS AND TECHNOLOGIES

MONGODB: [MongoDB: Cross-platform Document-Oriented Database]

MongoDB is a NoSQL database where each record is a document comprising of key-value pairs that are similar to JSON (JavaScript Object Notation) objects. MongoDB is flexible and allows its users to create schema, databases, tables, etc. Documents that are identifiable by a primary key make up the basic unit of MongoDB. Once MongoDB is installed, users can make use of Mongo shell as well. Mongo shell provides a JavaScript interface through which the users can interact and carry out operations (e.g.: querying, updating records, deleting records).

Why use MongoDB?

- Fast – Being a document-oriented database, easy to index documents. Therefore, a faster response.
- Scalability – Large data can be handled by dividing it into several machines.
- Use of JavaScript – MongoDB uses JavaScript which is the biggest advantage.
- Schema Less – Any type of data in a separate document.

Data stored in the form of JSON –

- Objects, Object Members, Arrays, Values, and Strings
- JSON syntax is very easy to use.
- JSON has a wide range of browser compatibility.
- Sharing Data: Data of any size and type (video, audio) can be shared easily.

Simple Environment Setup – It's really simple to set up MongoDB.

Flexible Document Model – MongoDB supports document-model (tables, schemas, columns & SQL) which is faster and easier.

Express: Back-End Framework:

Express is a Node.js framework. Rather than writing the code using Node.js and creating loads of Node modules, Express makes it simpler and easier to write the back-end code. Express helps in designing great web applications and APIs. Express supports many middlewares which makes the code shorter and easier to write. Why use Express?

- Asynchronous and Single-threaded.
- Efficient, fast & scalable
- Has the biggest community for Node.js
- Express promotes code reusability with its built-in router.
- Robust API
- Create a new folder to start your express project and type below command in the command prompt to initialize a package.json file. Accept the default settings and continue.

React: Front-End Library

React is a JavaScript library that is used for building user interfaces. React is used for the development of single-page applications and mobile applications because of its ability to handle rapidly changing data. React allows users to code in JavaScript and create UI components. Why use React?

- Virtual DOM – A virtual DOM object is a representation of a DOM object. Virtual DOM is actually a copy of the original DOM. Any modification in the web application causes the entire UI to re-render the virtual DOM. Then the difference between the original DOM and this virtual DOM is compared and the changes are made accordingly to the original DOM.
- JSX – Stands for JavaScript XML. It is an HTML/XML JavaScript Extension which is used in React. Makes it easier and simpler to write React components.
- Components – ReactJS supports Components. Components are the building blocks of UI wherein each component has a logic and contributes to the overall UI. These components also promote code reusability and make the overall web application easier to understand.
- High Performance – Features like Virtual DOM, JSX and Components makes it much faster than the rest of the frameworks out there.
- Developing Android/iOS Apps – With React Native you can easily code Android-based or IOS-Based apps with just the knowledge of JavaScript and ReactJS.

Node.js: JS Runtime Environment

Node.js provides a JavaScript Environment which allows the user to run their code on the server (outside the browser). Node pack manager i.e., npm allows the user to choose from thousands of free packages (node modules) to download. Why use Node.JS?

- Open-source JavaScript Runtime Environment
- Single threading – Follows a single-threaded model.
- Data Streaming
- Fast – Built on Google Chrome's JavaScript Engine, Node.js has a fast code execution.
- Highly Scalable
- Initialize a Node.js application by typing running the below command in the command window.
Accept the standard settings.

Advantages of MERN Stack

There are a lot of advantages of MERN Stack, some of them are mentioned below -

- For a smooth development of any web application or mobile app, it supports MVC (Model View Controller) architecture; the main purpose of this architecture is to separate the presentation details with the business logic.
- It covers all the web development stages starting from front-end development to backend development with JavaScript.
- It is an open-source framework mainly used to develop web-based or mobile applications and is supported by the community.

3. SOFTWARE AND HARDWARE REQUIREMENTS

3.1 INTRODUCTION

To be used efficiently, all computer software needs certain hardware components or the other software resources to be present on a computer. These pre-requisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to existing computer systems than technological advancements.

3.2 SYSTEM REQUIREMENTS

3.2.1 HARDWARE REQUIREMENTS

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

HARDWARE REQUIREMENTS FOR PRESENT PROJECT:

PROCESSOR: Intel i3 or higher

RAM: 4 GB

HARD DISK: 80 GB

3.2.2 SOFTWARE REQUIREMENTS:

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

SOFTWARE REQUIREMENTS FOR PRESENT PROJECT:

OPERATING SYSTEM: Windows 8 or higher / Linux (Ubuntu 20.04 LTS)

FRONT-END: ReactJS, Material-UI (Framework)

SERVER-SIDE SCRIPT: NodeJS, ExpressJS (Framework)

DATABASE: mongo DB

3.3 MODULES

This project has the following modules: -

3.3.1 BLOG MANAGEMENT MODULE

- The user can create a blog with title, description and an image.
- The user can update the content of the blog along with the title and image.
- The user can delete the blog if it is of no longer use.

3.3.2 CATEGORY MANAGEMENT MODULE

- There are multiple categories from which the user can select the genre of his/her choice.
- The categories are displayed in a lexicographical order.
- The blogs can be filtered out according to the categories selected on the home page.

3.3.3 COMMENT MANAGEMENT MODULE

- This module handles the comments posted on the blog.
- The comments posted in the blog gets stored in the database and gets updated in real time on the browser.
- The comments can be deleted from the blog and it is reflected back to the database.

3.3.4 IMAGE MANAGEMENT MODULE

- This module manages the images uploaded to the website.
- The images when gets uploaded on the database, it gets converted in the forms of chunks to save the bandwidth and the space.
- The image after getting uploaded in the database, it again gets converted back to the image from the chunks and gets displayed back on the browser.

4 SYSTEM DESIGN

4.1 INTRODUCTION TO UML:

4.1.1 UML Design

The Unified Modeling Language (UML) is a standard language for specifying, visualizing, constructing, and documenting the software system and its components. It is a graphical language, which provides a vocabulary and set of semantics and rules. The UML focuses on the conceptual and physical representation of the system. It captures the decisions and understandings about systems that must be constructed. It is used to understand, design, configure, maintain, and control information about the systems.

The UML is a language for:

- Visualizing
- Specifying
- Constructing
- Documenting

Visualizing

Through UML we see or visualize an existing system and ultimately, we visualize how the system is going to be after implementation. Unless we think, we cannot implement. UML helps to visualize, how the components of the system communicate and interact with each other.

Specifying

Specifying means building, models that are precise, unambiguous and complete UML addresses the specification of all the important analysis design, implementation decisions that must be made in developing and deploying a software system.

Constructing

UML models can be directly connected to a variety of programming language through mapping a model from UML to a programming language like JAVA or C++ or VB. Forward Engineering and Reverse Engineering is possible through UML.

Documenting

The Deliverables of a project apart from coding are some Artifacts, which are critical in controlling, measuring and communicating about a system during its developing requirements, architecture, design, source code, project plans, tests, prototypes, releases, etc.

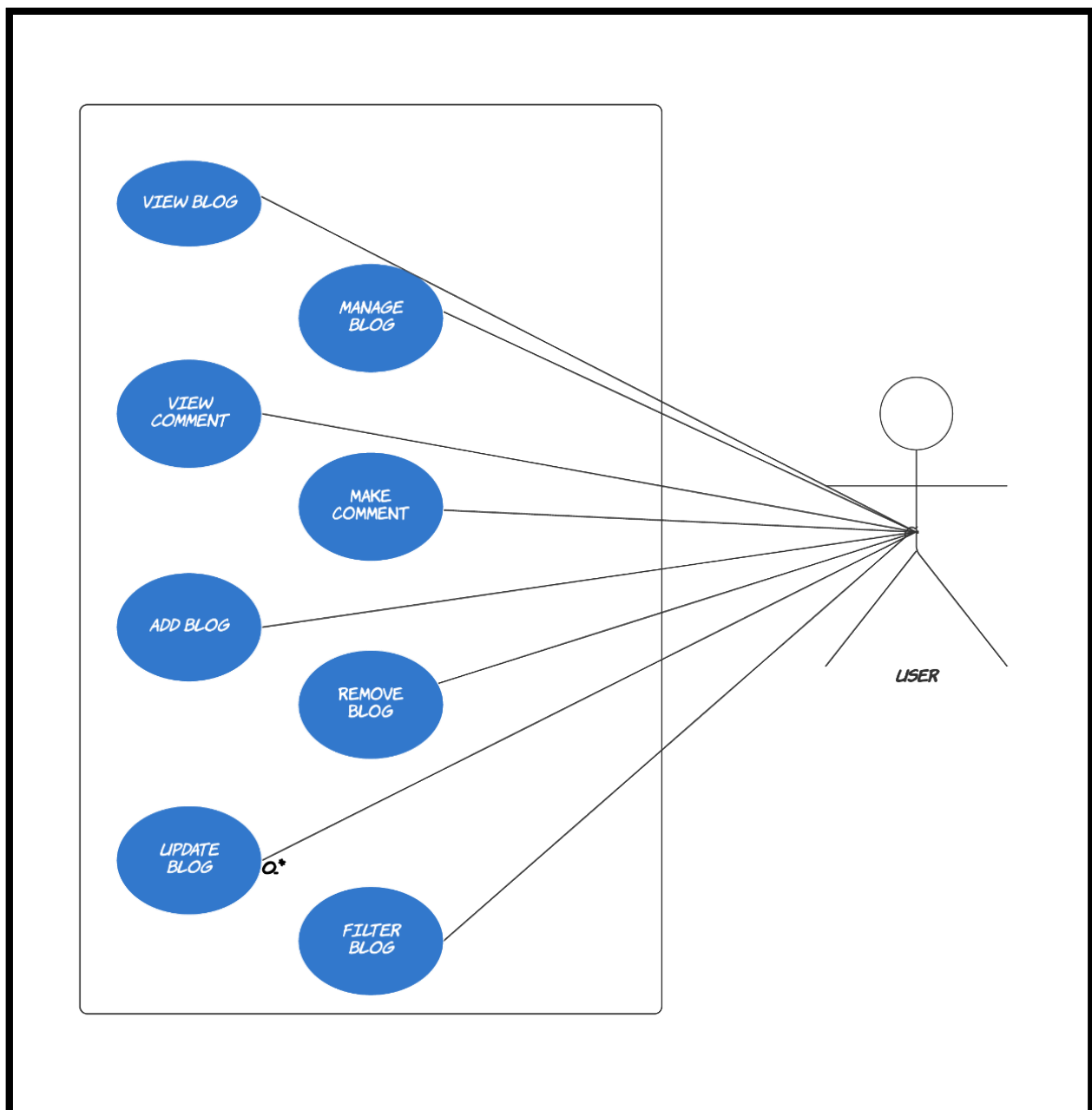
4.1 USE CASE DIAGRAM

A use case diagram in the Unified Modeling Language (UML) is type of behavioral diagram defined by and created from a use-case analysis. its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases.

Use case diagrams are formally included in two modeling languages defined by the OMG:

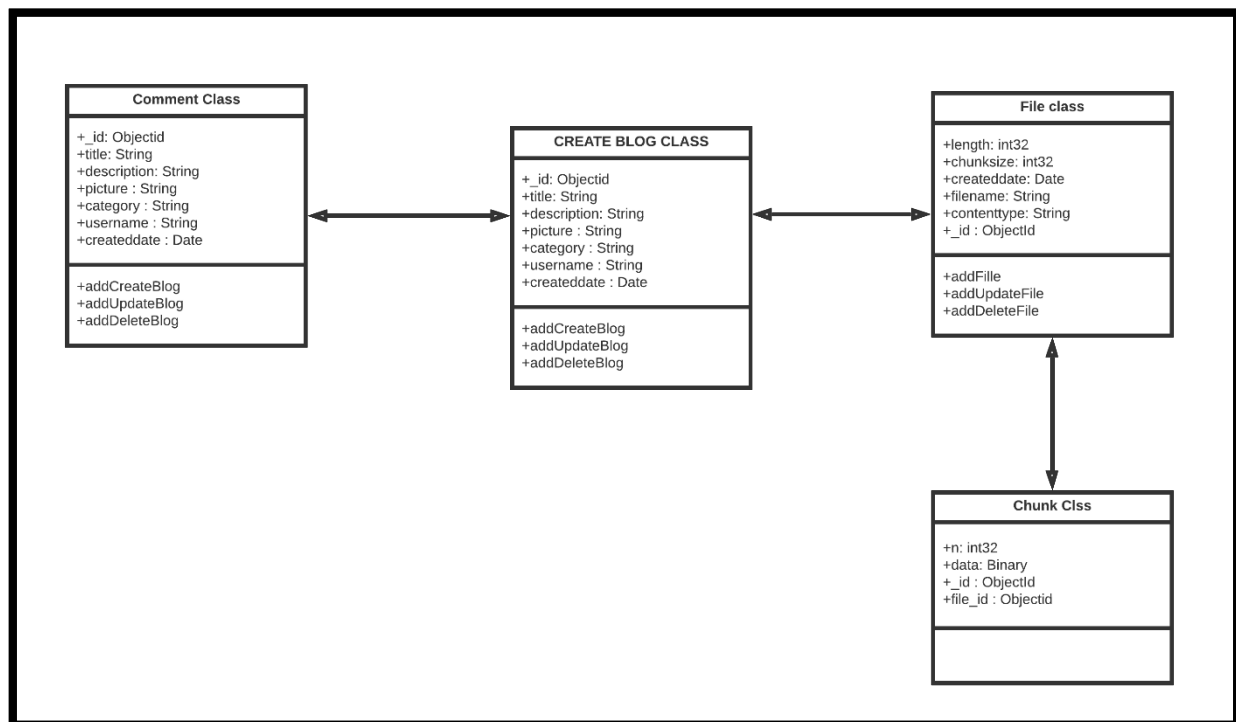
the unified modeling language (UML) and the systems modeling language (sys ML)

Use case diagram of our project: Use Case Diagram: User

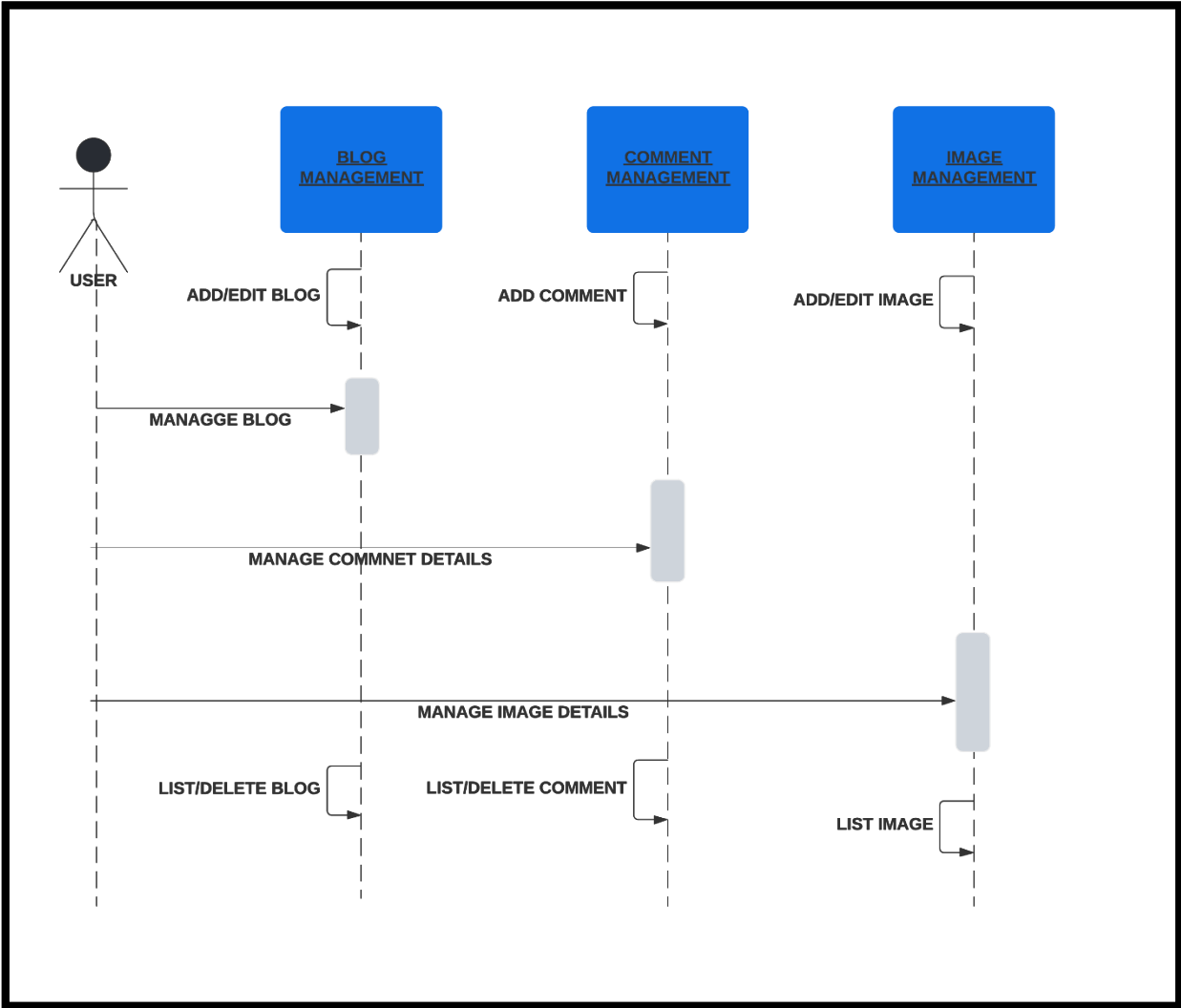


4.2 Class Diagram:

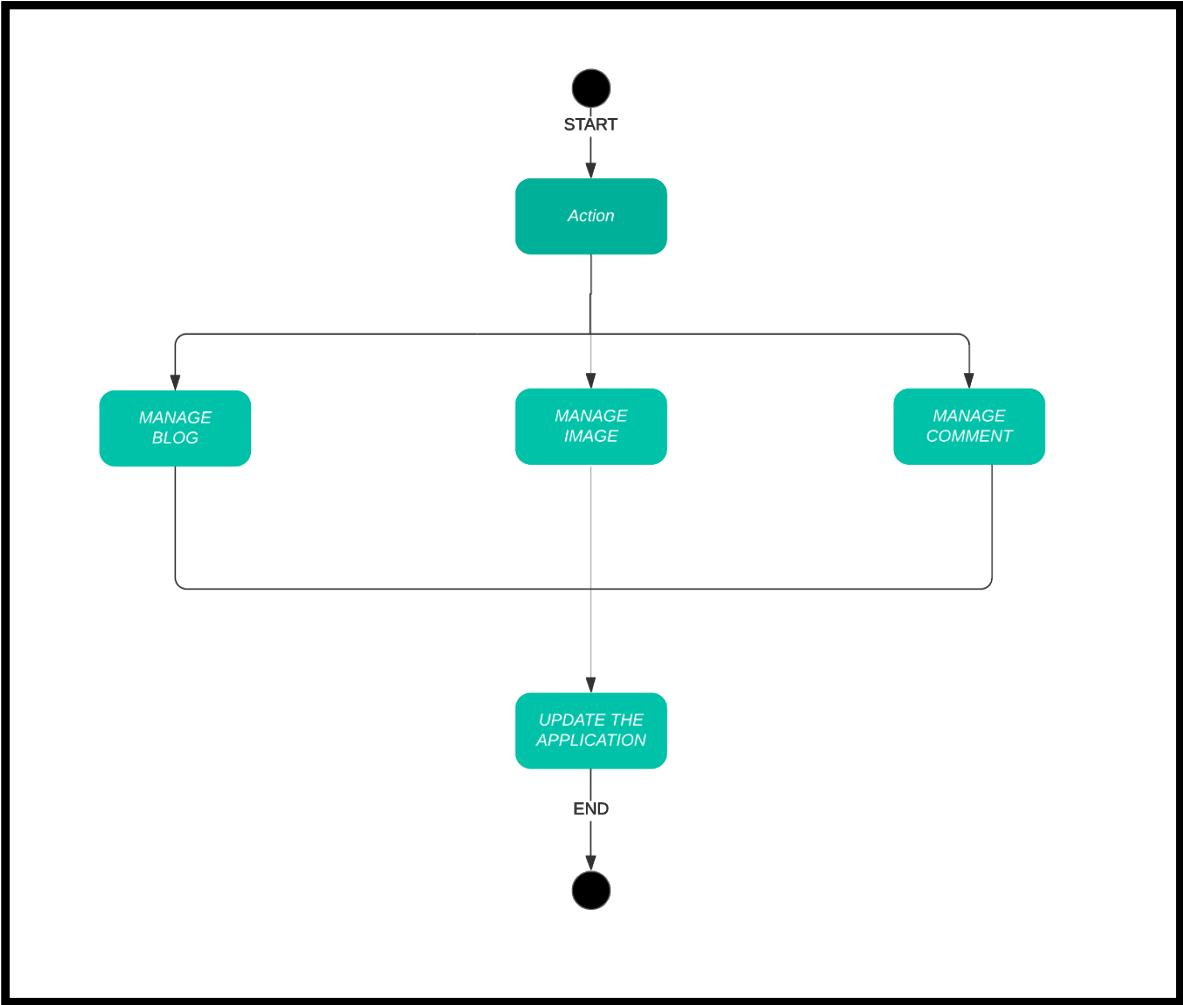
A Class is a category or group of things that has similar attributes and common behavior. A Rectangle is the icon that represents the class it is divided into three areas. The upper most area contains the name, the middle; area contains the attributes and the lowest areas show the operations. Class diagrams provides the representation that developers work from. Class diagrams help on the analysis side, too.



4.3 Sequence Diagram



4.4 Activity Diagram



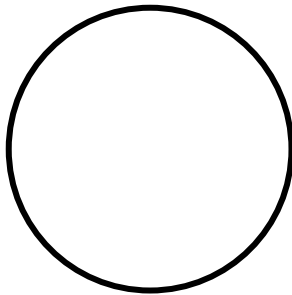
4.5 Data flow diagram

A DFD does not show a sequence of steps. A DFD only shows what the different process in a system is and what data flows between them.

The following are some DFD symbols used in the project.



External Entities



Process: A transaction of information that resides within the bounds of the system to be module



Dataflows



DATASTORE: A repository of data that is to be stored for use by one or more processes, may be as simple as buffer of queue or as a relational database.

RULES FOR DFD:

- Fix the scope of the system by means of context diagrams.
- Organize the DFD so that the main sequence of the actions reads left to right and top to bottom.
- Identify all inputs and outputs.
- Identify and label each process internal to the system with rounded circles.
- A process is required for all the data transformation and transfers. Therefore, never connect a data store to a data source or the destinations or another data store with just a data flow arrow.
- Do not indicate hardware and ignore control information.
- Make sure the names of the processes accurately convey everything the process is done.
- There must not be unnamed process.
- Indicate external sources and destinations of the data, with squares.
- Number each occurrence of repeated external entities.
- Identify all data flows for each process step, except simple Record retrievals.
- Label data flow on each arrow.
- Use details flow on each arrow.
- Use the details flow arrow to indicate data movements.
- There can't be unnamed data flow.
- A data flow can't connect two external entities.

LEVELS OF DFD:

The complexity of the business system means that it is a responsible to represent the operations of any system of single data flow diagram. At the top level, an Overview of the different systems in an organization is shown by the way of context analysis diagram. When exploded into DFD

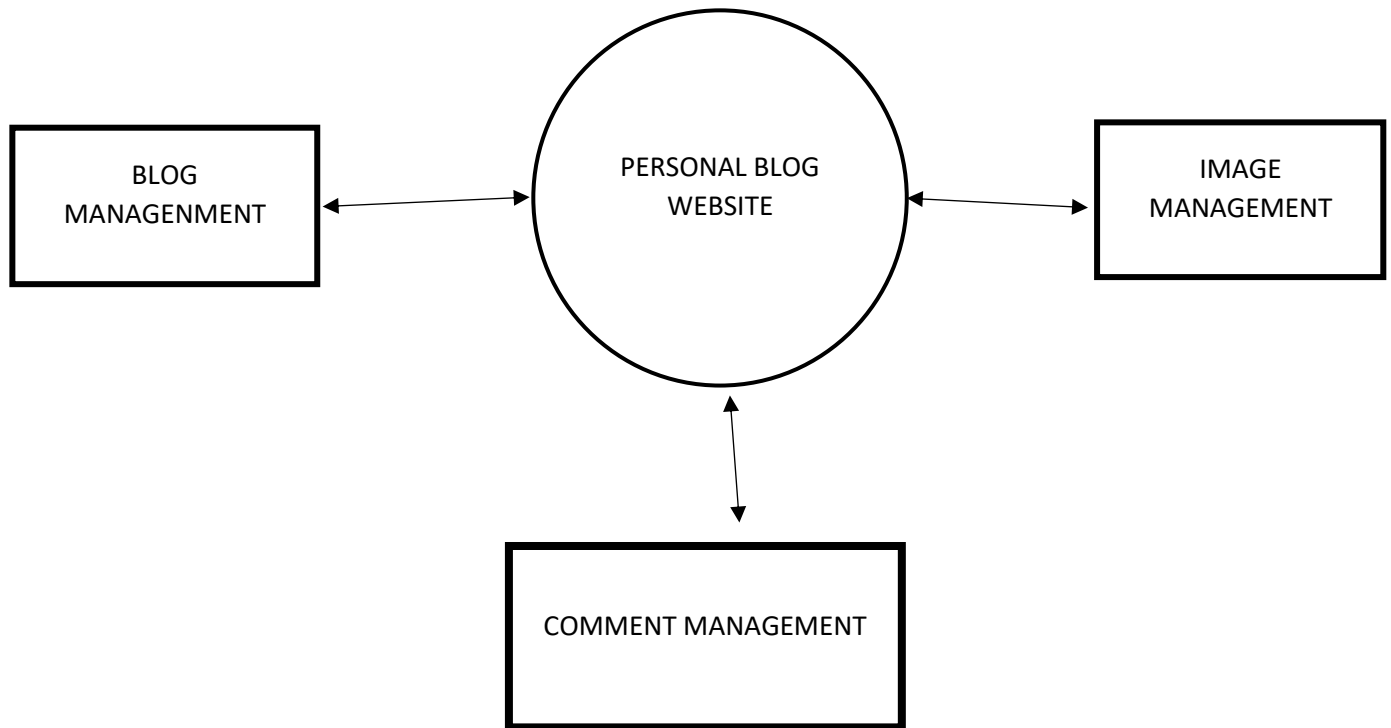
They are represented by:

- LEVEL-0: SYSTEM INPUT/OUTPUT
- LEVEL-1: SUBSYSTEM LEVEL DATAFLOW FUNCTIONAL
- LEVEL-2: FILE LEVEL DETAIL DATA FLOW.

The input and output data shown should be consistent from one level to the next.

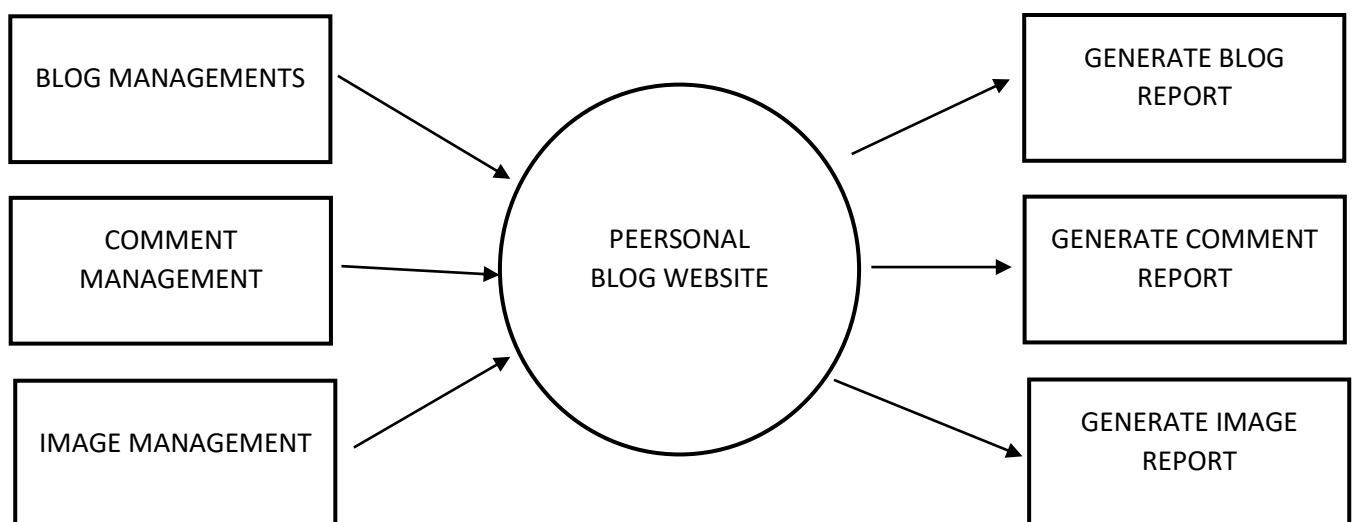
LEVEL-0: SYSTEM INPUT/OUTPUT LEVEL

A level-0 DFD describes the system-wide boundaries, dealing inputs to and outputs from the system and major processes. This diagram is similar to the combined user-level context diagram.



LEVEL-1: SUBSYSTEM LEVEL DATA FLOW

A level-1 DFD describes the next level of details within the system, detailing the data flows between subsystems, which makeup the whole.



4.6 ER DIAGRAM

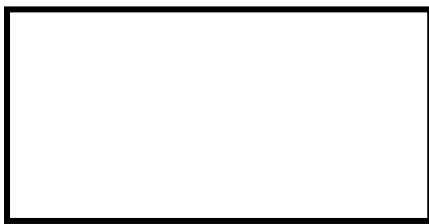
ENTITY-RELATIONSHIP Diagrams

E-R (Entity-Relationship) Diagram is used to represents the relationship between entities in the table.

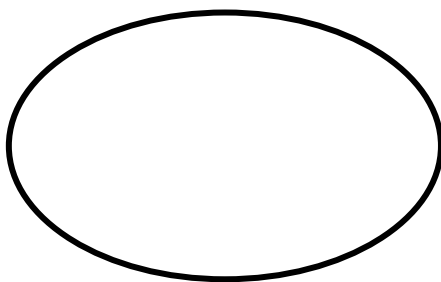
The symbols used in E-R diagrams are:

SYMBOLS

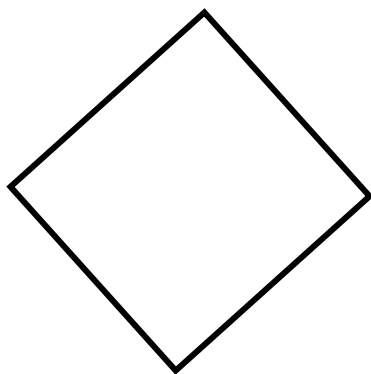
PURPOSE



Represents Entity Set



Represent attributes



Represents Relationship Set

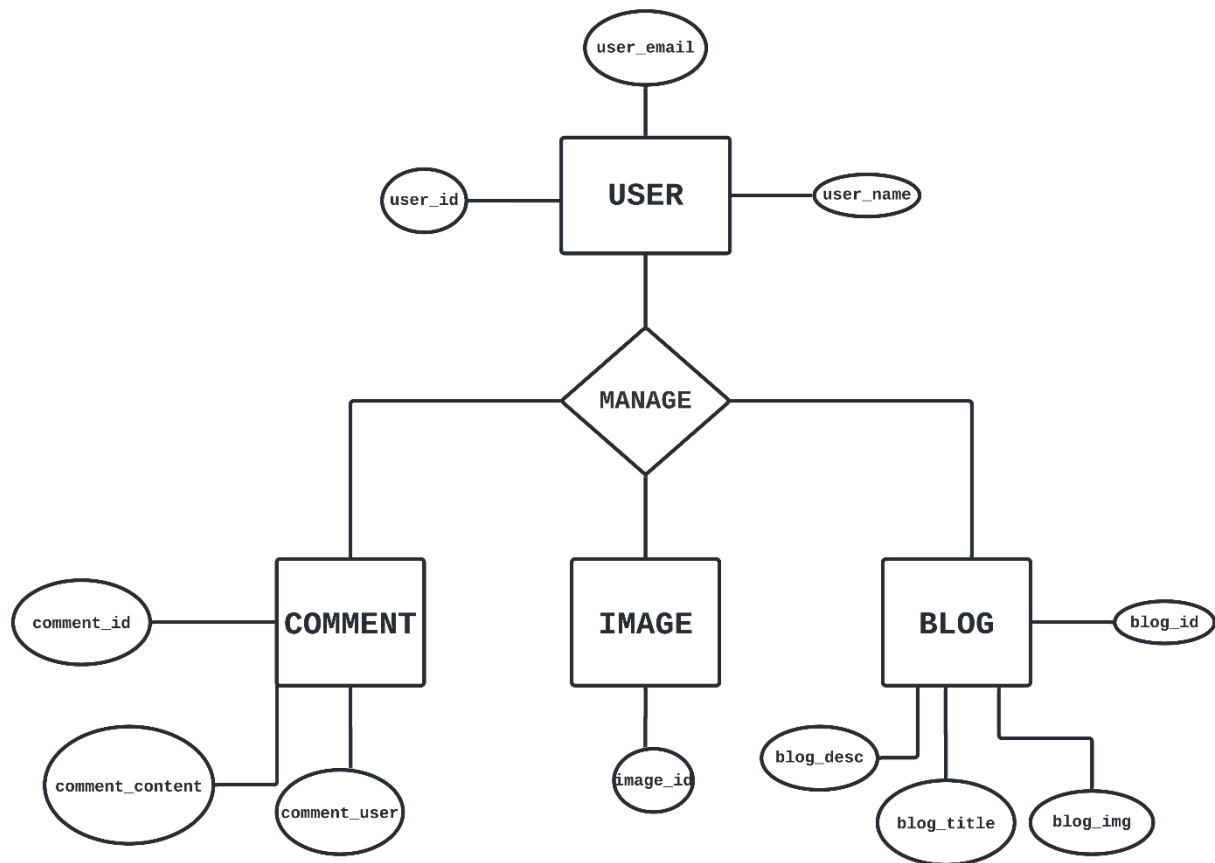


Represents Line flow

Structured analysis is a set of tools and techniques that the analyst.

To develop a new kind of a system:

The traditional approach focuses on the cost benefit and feasibility analysis, Project management, and hardware and software selection a personal consideration.



5. IMPLEMENTATION

5.1 Introduction:

Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus, it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective. The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve changeover and evaluation of changeover methods.

5.2 Codes

5.2.1 Index.html [client -> public -> index.html]

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="utf-8" />

  <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />

  <meta name="viewport" content="width=device-width, initial-scale=1" />

  <meta name="theme-color" content="#000000" />

  <meta name="description" content="Web site created using create-react-app" />

  <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />

  <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />

  <link rel="preconnect" href="https://fonts.googleapis.com">

  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

  <link href="https://fonts.googleapis.com/css2?family=Dongle&family=Special+Elite&family=Ubuntu&
display=wap   rel="stylesheet">

  <title>Blog Website</title>

</head>

<body>

  <noscript>You need to enable JavaScript to run this app.</noscript>

  <div id="root"></div>

</body>

</html>
```

5.2.2 About.jsx [client->scr->component->about->about.jsx]

```
import { Box, makeStyles, Typography } from "@material-ui/core";

const useStyles = makeStyles({
  banner: {
    backgroundImage: `url("${https://www.wallpapertip.com/wmimgs/23-236943_us-wallpaper-for-website.jpg}")`,
    width: "100%",
    height: "50vh",
    backgroundPosition: "left 0px bottom 0px",
    backgroundSize: "cover",
  },
  wrapper: {
    padding: 20,
    "& > *": {
      marginTop: 50,
    },
  },
  text: {
    color: "#878787",
  },
});

const About = () => {
  const classes = useStyles();
  return (
    <Box>
      <Box className={classes.banner}></Box>
      <Box className={classes.wrapper}>
        <Typography variant="h3">Anubhav Lal & Nehal Deb</Typography>
        <Typography variant="h5" className={classes.text}>
          We are the students of Acharya Institute of Graduate Studies,
          Bangalore, India.
        <br />
        <br />
      </Box>
    </Box>
  );
}
```

The “Blogger’s Den” is developed to overcome the problems prevailing in the practicing manual system. This application is supported to eliminate and, in some case, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of a single user to carry out operations in a smooth and effective manner.

The main challenges to overcome were managing the updated information of Blogs and Images. Every person likes to have different category of blogs which he/she would like to write on.

The application is reduced as much as possible to avoid errors while entering the data. No formal knowledge is needed for the user to use this system. Thus, by this all proves it is user friendly. It assists the user to concentrate on their productivity.

</Typography>

</Box>

</Box>

);

};

export default About;

5.2.3 Comment.jsx [client->scr->component->commnets->comment.jsx]

```
import { Typography, Box, makeStyles } from "@material-ui/core";
```

```
import { Delete } from '@material-ui/icons';
```

```
import { deleteComment } from '../services/api';
```

```
const useStyles = makeStyles({
```

```
  component: {
```

```
    marginTop: 30,
```

```
    background: '#F5F5F5',
```

```
    padding: 10
```

```
  },
```

```
  container: {
```

```
    display: 'flex',
```

```

      marginBottom: 5
    },
    name: {
      fontWeight: 600,
      fontSize: 18,
      marginRight: 20
    },
    date: {
      fontSize: 14,
      color: '#878787'
    },
    delete: {
      marginLeft: 'auto',
      cursor: 'pointer'
    }
  })
const Comment = ({ comment, setToggle }) => {
  const classes = useStyles();
  const removeComment = async () => {
    await deleteComment(comment._id);
    setToggle(prev => !prev);
  }
  return (
    <Box className={classes.component}>
      <Box className={classes.container}>
        <Typography className={classes.name}>{comment.name}</Typography>
        <Typography className={classes.date}>{new
Date(comment.date).toDateString()}</Typography>
        <Delete className={classes.delete} onClick={() => removeComment()} />
      </Box>
      <Typography>{comment.comments}</Typography>
    </Box>
  )
}
export default Comment;

```

5.2.4 Comments.jsx [client->scr->component->commnets->comments.jsx]

```
import { useState, useEffect } from 'react';
import { Box, TextareaAutosize, Button, makeStyles } from '@material-ui/core';
import { newComment, getComments } from '../services/api';
//components
import Comment from './comment';
const useStyles = makeStyles({
  container: {
    marginTop: 60,
    display: 'flex',
    '& > *': {
      padding: '10px '
    }
  },
  image: {
    width: 50,
    height: 50,
    borderRadius: '50%'
  },
  textarea: {
    height: 100,
    width: '100%',
    margin: '0 20px'
  },
  button: {
    height: 40
  }
})
const initialValue = {
  name: "",
  postId: "",
  date: new Date(),
  comments: ""
```

```

}

const Comments = ({ post }) => {
  const classes = useStyles();
  const url = 'https://static.thenounproject.com/png/12017-200.png'
  const [comment, setComment] = useState(initialValue);
  const [comments, setComments] = useState([]);
  const [data, setData] = useState();
  const [toggle, setToggle] = useState(false);
  useEffect(() => {
    const getData = async () => {
      const response = await getComments(post._id);
      setComments(response);
    }
    getData();
  }, [toggle, post]);
  const handleChange = (e) => {
    setComment({
      ...comment,
      name: post.username,
      postId: post._id,
      comments: e.target.value
    });
    setData(e.target.value);
  }
  const addComment = async() => {
    await newComment(comment);
    setData("")
    setToggle(prev => !prev);
  }
  console.log(post);
  return (
    <Box>
      <Box className={classes.container}>
        <img src={url} className={classes.image} alt="dp" />
        <TextareaAutosize

```

```

        rowsMin={5}
        className={classes.textarea}
        placeholder="What's on your mind?"
        onChange={(e) => handleChange(e)}
        value={data}
      />
      <Button
        variant="contained"
        color="primary"
        size="medium"
        className={classes.button}
        onClick={(e) => addComment(e)}
      >Post</Button>
    </Box>
    <Box>
      {
        comments && comments.map(comment => (
          <Comment comment={comment} setToggle={setToggle} />
        ))
      }
    </Box>
  </Box>
)
}
export default Comments;

```

5.2.5 Contact.jsx [client->scr->component->contact->contact.jsx]

```

import { Box, makeStyles, Typography, Link } from "@material-ui/core";
import { GitHub, Instagram, Email } from "@material-ui/icons";
const useStyles = makeStyles({
  banner: {
    backgroundImage: `url("${http://mrtaba.ir/image/bg2.jpg}")`,
    width: "100%",
    height: "50vh",
    backgroundPosition: "left 0px top -100px",

```

```

    backgroundColor: "cover",
  },
  wrapper: {
    padding: 20,
    "& > *": {
      marginTop: 50,
    },
  },
  text: {
    color: "#878787",
  },
});

const Contact = () => {
  const classes = useStyles();
  return (
    <Box>
      <Box className={classes.banner}></Box>
      <Box className={classes.wrapper}>
        <Typography variant="h3">Getting in touch is easy!</Typography>
        <Typography variant="h5" className={classes.text}>
          Need something built or simply want to have chat? Reach out to me on
          <Box component="span" style={{ marginLeft: 5 }}>
            <Link
              href="https://www.instagram.com/_anu_bhav/"
              color="inherit"
              target="_blank"
            >
              <Instagram />
            </Link>
          </Box>
          or send me an Email
          <Link
            href="mailto:anubhavlal.15@gmail.com"
            target="_blank"
            color="inherit"

```



```

    >
    <Email />
  </Link>
  . If you are interested, you can view my portfolio here
  <Box component="span" style={{ marginLeft: 5 }}>
    <Link
      href="https://anubhavlal07.github.io/Portfolio/"
      color="inherit"
      target="_blank"
    >
      <GitHub /> - Anubhav Lal
    </Link>
  </Box>
</Typography>
</Box>
</Box>
);
};
export default Contact;

```

5.2.6 Banner.jsx [client->scr->component->home->banner.jsx]

```

import { makeStyles, Box, Typography } from "@material-ui/core";
const Styles = makeStyles((theme) => ({
  image: {
    background: `url(/peakpx.jpg) #000`,
    width: "100%",
    height: "35vh",
    display: "flex",
    flexDirection: "column",
    alignItems: "center",
    justifyContent: "center",
    "& :first-child": {
      fontSize: 80,
      fontFamily: 'Special Elite,cursive',
      color: "black",

```

```

    [theme.breakpoints.down("sm")]: {
      // lineHeight: 1,
      fontSize: 40,
    },
  },
},
));

const Banner = () => {
  const classes = Styles();
  // const url = 'https://images.pexels.com/photos/768474/pexels-photo-768474.jpeg'
  return (
    <Box className={classes.image}>
      <Typography>BLOGGER'S DEN</Typography>
      { /* <Typography>| 5th Semester Project |</Typography> */ }
    </Box>
  );
};

export default Banner;

```

5.2.7 Categories.jsx [client->scr->component->home->categories]

```

import {
  Button,
  makeStyles,
  Table,
  TableHead,
  TableCell,
  TableRow,
  TableBody,
} from "@material-ui/core";
import { categories } from "../../constants/data";
import { Link } from "react-router-dom";

const Styles = makeStyles({
  create: {
    margin: 15,

```

```

background: "#b82e1f",
color: "#ffffff",
width: "80%",
},
table: {
  border: "1px solid rgba(224,224,224,1)",
},
link: {
  textDecoration: "none",
  color: "inherit",
},
});

const Categories = () => {
  const classes = Styles();
  return (
    <
      <Link to="/create" className={classes.link}>
        <Button variant="contained" className={classes.create}>
          Create Blog
        </Button>
      </Link>
      <Table className={classes.table}>
        <TableHead>
          <TableRow>
            <TableCell>
              <Link to="/" className={classes.link}>
                All Categories
              </Link>
            </TableCell>
          </TableRow>
        </TableHead>
        <TableBody>
          {categories.map((category) => (
            <TableRow>
              <TableCell>

```

```

      <Link to={`/?category=${category}`} className={classes.link}>
        {category}
      </Link>
    </TableCell>
  </TableRow>
))}
</TableBody>
</Table>
</>
);
};
export default Categories;

```

5.2.8 Home.jsx [client->scr->component->home->home]

```

// Components import
import { Grid } from "@material-ui/core";
import Banner from "./Banner";
import Categories from "./Categories";
import Posts from "./Posts";
const Home = () => {
  return (
    <>
      <Banner />
      <Grid container>
        <Grid item lg={2} sm={2} xs={12}>
          <Categories />
        </Grid>
        <Grid container item lg={10} sm={10} xs={12}>
          <Posts />
        </Grid>
      </Grid>
    </>
  );
};
export default Home;

```

6.2.9 Post.jsx [client->scr->component->home->post]

```
import { Box, Typography, makeStyles } from "@material-ui/core"

const Styles = makeStyles({
  container: {
    height: 400,
    margin: 10,
    border: '1px solid #d3cede',
    borderRadius: 10,
    display: 'flex',
    flexDirection: 'column',
    alignItems: 'center',
    '& > *': {
      padding: '0px 5px 5px 5px'
    }
  },
  image: {
    borderRadius: '10px 10px 0px 0px',
    height: 150,
    width: '100%',
    objectFit: 'cover'
  },
  text : {
    fontSize: 14,
    fontWeight: 550,
    color: 'grey'
  },
  heading: {
    fontSize: 19,
    fontWeight: 600,
    color: 'black',
    textAlign: 'center'
  },
  details: {
    fontSize: 14,
    fontWeight: 550,
```

```

    color:'#2A272E',
    wordBreak: 'break-word'
  }
})
const Post = ({ post }) => {
  const classes = Styles();
  const url = post.picture || 'https://images.pexels.com/photos/5077047/pexels-photo-5077047.jpeg';
  const addElipsis = (str,limit) => {
    return str.length > limit ? str.substring(0, limit) + ' ...' : str;
  }
  return (
    <Box className= {classes.container}>
      <img src={url} alt='Bannerimage' className= {classes.image}/>
      <Typography className= {classes.text}>{post.categories}</Typography>
      <Typography className= {classes.heading}>{addElipsis(post.title,25)}</Typography>
      <Typography className= {classes.text}>Author: {post.username}</Typography>
      <Typography className= {classes.details}>{addElipsis(post.description,200)}</Typography>
    </Box>
  );
};
export default Post;

```

5.2.10 Posts.jsx [client->scr->component->home->posts]

```

import { Grid, Box } from "@material-ui/core";
import { useEffect, useState } from "react";
import { Link, useLocation } from "react-router-dom";
import { getAllPosts } from "../../services/api";
import Post from "../Post";
const Posts = () => {
  const [posts, setPosts] = useState([]);
  const { search } = useLocation();
  useEffect(() => {
    const fetchData = async () => {
      let data = await getAllPosts(search);
      console.log(data);
    }
  });

```

```

    setPosts(data);
  };
  fetchData();
}, [search]);
return (
  <
    {posts.length ? (
      posts.map((post) => (
        <Grid item lg={3} sm={4} xs={12}>
          <Link
            style={{ textDecoration: "none", color: "inherit" }}
            to={`/${details}/${post._id}`}
          >
            <Post post={post} />
          </Link>
        </Grid>
      ))
    ) : (
      <Box style={{ color: "878787", margin: "30px 80px", fontSize: 28 }}>
        No data is available for this category.
      </Box>
    )}
  </>
);
};
export default Posts;

```

5.2.11 DetailedView.jsx [client->scr->component->Post->DetailedView.jsx]

```

import { Box, makeStyles, Typography } from "@material-ui/core";
import { Edit, Delete } from '@material-ui/icons';
import { useEffect, useState } from "react";
import { Link, useHistory } from "react-router-dom";
import { getPost, deletePost } from "../../services/api";
import Comments from '../Comments/comments';

```

```
const Styles=makeStyles((theme) =>({
  container: {
    padding: '0px 100px',
    [theme.breakpoints.down('md')]: {
      padding: 0
    }
  },
  image: {
    width: '100%',
    height: '35vh',
    objectFit: 'cover'
  },
  icons: {
    float: 'right'
  },
  icon: {
    margin: 5,
    border: '1px solid #878787',
    padding: 5,
    borderRadius: 10
  },
  heading: {
    fontSize: 38,
    fontWeight: 550,
    textAlign: 'center',
    margin: "20px 0px"
  },
  subheading: {
    fontSize: 18,
    color: 'grey',
    display: 'flex',
    fontWeight: 520,
    margin: "10px 0px",
    [theme.breakpoints.down('sm')]: {
      display: 'block'
    }
  }
})
```



```

    }
  },
  details: {
    fontSize: 20
  },
  link: {
    color: 'inherit',
    textDecoration: 'none'
  }
}))
const DetailedView = ({ match }) => {
  const classes = Styles();
  const url = 'https://images.pexels.com/photos/3822335/pexels-photo-3822335.png';
  const history = useHistory();
  const [post, setPost] = useState({});
  useEffect(() => {
    const fetchData = async () => {
      let data = await getPost(match.params.id);
      console.log(data);
      setPost(data);
    }
    fetchData();
  }, [match.params.id])
  const deleteBlog = async () => {
    await deletePost(post._id);
    history.push('/');
  }
  return(
    <Box className={classes.container}>
      <img src={post.picture || url} alt='banner' className={classes.image}/>
      <Box className={classes.icons}>
        <Link to={`/update/${post._id}`} ><Edit className={classes.icon} color='primary' /></Link>
        <Delete onClick={() => deleteBlog()} className={classes.icon} color='error' cursor='pointer' />
      </Box>
      <Typography className={classes.heading}>{post.title}</Typography>
    </Box>
  )
}

```

```

<Box className={classes.subheading}>
  <Typography>Author:&nbsp;
    <Link to={`/?username=${post.username}`} className={classes.link}>
      <span style={{fontWeight: 550}}>{post.username}</span>
    </Link>
  </Typography>
  <Typography style={{marginLeft: 'auto'}}>{new
Date(post.createdAt).toLocaleDateString()}</Typography>
</Box>
<Typography className={classes.details}>{post.description}</Typography>
<Comments post={post}/>
</Box>
)
}
export default DetailedView;

```

5.2.12 UpdateView.jsx [client->scr->component->Post->UpdateView.jsx]

```

import { Box, makeStyles, FormControl, InputBase, Button, TextareaAutosize } from "@material-ui/core";
import { useState, useEffect } from "react";
import { AddCircle } from "@material-ui/icons";
import { getPost, updatePost, uploadFile } from "../../services/api";
import { useHistory } from "react-router-dom";
const Styles = makeStyles((theme) => ({
  container: {
    padding: "0px 100px",
    [theme.breakpoints.down("md")]: {
      padding: 0,
    },
  },
  image: {
    width: "100%",
    height: "50vh",
    objectFit: "cover",
  },
  form: {

```

```
      display: "flex",
      flexDirection: "row",
      marginTop: "10px",
    },
    textfield: {
      flex: 1,
      fontSize: 24,
      margin: "0px 25px",
    },
    textarea: {
      marginTop: 10,
      width: '100%',
      border: 'none',
      fontSize: 20,
      '&:focus-visible': {
        outline: 'none'
      }
    }
  }
));

const initialValues = {
  title: "",
  description: "",
  picture: "",
  username: "anubhavlal",
  categories: "All",
  createdAt: new Date(),
};

const UpdateView = ({ match }) => {
  const classes = Styles();
  const history = useHistory();
  const [post, setPost] = useState(initialValues);
  const [file, setFile] = useState("");
  const [image, setImage] = useState("");

  const url = post.picture ? post.picture : "https://images.pexels.com/photos/374631/pexels-photo-374631.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940";
```

```

useEffect (()=> {
  const getImage = async () =>{
    if(file){
      const data = new FormData();
      data.append("name",file.name);
      data.append("file",file);
      let image = await uploadFile(data);
      post.picture = image.data;
      setImage(image.data);
    }
  }
  getImage();
}, [file,post])
useEffect(() => {
  const fetchData = async () => {
    let data = await getPost(match.params.id);
    console.log(data);
    setPost(data);
  }
  fetchData();
},[match.params.id])
const handleChange = (e) =>{
  setPost({...post,[e.target.name]:e.target.value})
}
const updateBlog = async () => {
  await updatePost(match.params.id, post);
  history.push(`/details/${match.params.id}`);
}
return (
  <Box className={classes.container}>
    <img src={url} alt="banner" className={classes.image} />
    <FormControl className={classes.form}><label htmlFor='fileInput'>
      <AddCircle fontSize="large" color="error" cursor='pointer' />
    </label>
    <input

```

```

    type='file'
    id='fileInput'
    style={{display:'none'}}
    onChange={(e) => setFile(e.target.files[0])}
  />
  <InputBase placeholder="Title..." name='title' onChange={(e) => handleChange(e)} value={post.title}
  className={classes.textfield} />
  <Button onClick={() => updateBlog()} variant="contained" color="primary">Update</Button>
</FormControl>
<TextareaAutosize
  className={classes.textarea}
  rowsMin={5}
  placeholder='Write your story...'
  name='description'
  value={post.description}
  onChange={(e) => handleChange(e)}
/>
</Box>
);
};
export default UpdateView;

```

5.2.13 Header.jsx [client->scr->component->Header.jsx]

```

import { AppBar, Toolbar, makeStyles } from '@material-ui/core';
import { Link } from 'react-router-dom';
const useStyles = makeStyles({
  component: {
    background: '#FFFFFF',
    color: 'black'
  },
  container: {
    justifyContent: 'center',
    '& > *': {
      padding: 20,
      color: 'black',

```

```

      textDecoration: 'none'
    }
  }
})
const Header = () => {
  const classes = useStyles();
  return (
    <AppBar className={classes.component}>
      <Toolbar className={classes.container}>
        <Link to="/">HOME</Link>
        <Link to="/about">ABOUT</Link>
        <Link to="/contact">CONTACT</Link>
        { /* <Link to="/">LOGOUT</Link> */ }
      </Toolbar>
    </AppBar>
  )
}
export default Header;

```

5.2.14 index.jsx [client->scr->index.jsx]

```

import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById('root')
);

```

5.2.15 index.js [server -> index.js]

```
import express from "express";
import cors from 'cors';
import bodyparser from 'body-parser';
import connection from "./database/db.js";
import router from "./routes/route.js";
const app = express();
app.use(cors());
app.use(bodyparser.json({extended:true}));
app.use(bodyparser.urlencoded({extended:true}));
app.use('/', router);
const port = 8000;
app.listen(port,()=> console.log(`Server is running at Port ${port}`));
connection();
```

5.2.16 commentController.js [server -> controller -> commentController.js]

```
import comment from '../schema/commentSchema.js';
import Comment from '../schema/commentSchema.js';
export const newComment = async (request, response) => {
  try{
    const comment = new Comment(request.body);
    comment.save();
    response.status(200).json('Comment saved successfully');
  } catch(error){
    response.status(500).json(error);
  }
}
export const getComment = async (request, response) => {
  try{
    const comments = await Comment.find({ postId: request.params.id});
    response.status(200).json(comments);
  } catch(error){
    response.status(500).json(error);
  }
}
```

```

}

export const deleteComment = async (request, response) => {
  try {
    const comment = await Comment.findById(request.params.id);
    await comment.delete();
    response.status(200).json(comment);
  } catch (error) {
    response.status(500).json(error);
  }
}

```

5.2.17 imageController.js [server -> controller -> imageController.js]

```

import Grid from "gridfs-stream";
import mongoose from "mongoose";
const url = "http://localhost:8000";
let gfs;
const conn = mongoose.connection;
conn.once("open", () => {
  gfs = Grid(conn.db, mongoose.mongo);
  gfs.collection("fs");
});

export const uploadImage = (request, response) => {
  try {
    if (!request.file) return response.status(404).json("File not found");
    const imageUrl = `${url}/file/${request.file.filename}`;
    response.status(200).json(imageUrl);
  } catch (error) {
    response.status(404).json(error);
  }
}

export const getImage = async (request, response) => {
  try {
    const file = await gfs.files.findOne({ filename: request.params.filename });
    let readStream = gfs.createReadStream(file.filename);
    readStream.pipe(response);
  } catch (error) {

```



```
    response.status(500).json("Failed to fetch the image");
  }
}
```

5.2.18 postController.js [server -> controller -> postController.js]

```
import Post from "../schema/postSchema.js";
export const createPost = async (request, response) => {
  console.log(request.body);
  try {
    const post = await new Post(request.body);
    post.save();
    response.status(200).json('blog saved successfully');
  } catch (error) {
    response.status(500).json(error);
  }
}

export const getAllPosts = async (request, response) => {
  let posts;
  let username = request.query.username;
  let category = request.query.category;
  try {
    if (username) {
      posts = await Post.find({ username: username });
    }
    else if (category) {
      posts = await Post.find({ categories: category });
    }
    else {
      posts = await Post.find({});
    }
    response.status(200).json(posts);
  } catch (error) {
    response.status(500).json(error);
  }
}
```

```
export const getPost = async (request, response) => {
  try{
    let post = await Post.findById(request.params.id);
    response.status(200).json(post);
  } catch(error){
    response.status(500).json(error);
  }
}

export const updatePost = async (request, response) => {
  try{
    await Post.findByIdAndUpdate(request.params.id, {$set: request.body});
    response.status(200).response('Blog Updated');
  } catch(error){
    response.status(500).json(error);
  }
}

export const deletePost = async (request, response) => {
  try{
    let post = await Post.findById(request.params.id);
    await post.delete();
    response.status(200).response('Blog deleted');
  } catch(error){
    response.status(500).json(error);
  }
}
```

5.2.19 db.js [server -> database -> db.js]

```
import mongoose from 'mongoose';

const connection = async () => {
  try{
    const url ='mongodb://anubhavlal:anubhavlal@blogwebsite-shard-00-00.whzc5.mongodb.net:27017,blogwebsite-shard-00-01.whzc5.mongodb.net:27017,blogwebsite-shard-00-02.whzc5.mongodb.net:27017/BLOG?ssl=true&replicaSet=atlas-5z6lc8-shard-0&authSource=admin&retryWrites=true&w=majority';
    await mongoose.connect(url,{useNewUrlParser: true, useUnifiedTopology:true});
    console.log('Database connection established');
  } catch(error){
```

```
    console.log('Error while connecting to database',error);
  }
}
export default connection;
```

5.2.20 route.js [server -> routes -> route.js]

```
import express, { Router } from 'express';
import { createPost, getAllPosts, getPost, updatePost, deletePost } from "../controller/postController.js";
import { uploadImage, getImage } from '../controller/imageController.js';
import upload from '../utilities/upload.js'
import { newComment, getComment, deleteComment } from '../controller/commentController.js';
const router = express.Router();
router.post('/create', createPost);
router.get('/posts', getAllPosts);
router.get('/post/:id', getPost);
router.post('/update/:id', updatePost);
router.delete('/delete/:id', deletePost);
router.post('/file/upload', upload.single('file'), uploadImage);
router.get('/file/:filename', getImage);
router.post('/comment/new', newComment);
router.get('/comments/:id', getComment);
router.delete('/comment/delete/:id', deleteComment);
export default router;
```

5.2.21 commentSchema.js [server -> schema -> commentSchema.js]

```
import mongoose from 'mongoose';
const commentSchema = mongoose.Schema({
  name:{
    type: String,
    require:true
  },
  postId:{
    type: String,
    require:true
  },

```

```
date: {
  type: String,
  require: true
},
comments: {
  type: String,
  require: true
}
})

const comment = mongoose.model('comment', commentSchema);
export default comment;
```

5.2.22 postSchema.js [server -> schema -> postSchema.js]

```
import mongoose from 'mongoose';
const postSchema = mongoose.Schema({
  title: {
    type: String,
    required: true,
    unique: true
  },
  description: {
    type: String,
    required: true,
  },
  picture: {
    type: String,
    required: false,
  },
  username: {
    type: String,
    required: true,
  },
  categories: {
    type: String,
    required: true,
```

```
  },
  createdAt: {
    type: Date
  },
})
const post = mongoose.model('post', postSchema);
export default post;
```

5.2.23 upload.js [server -> utilities -> upload.js]

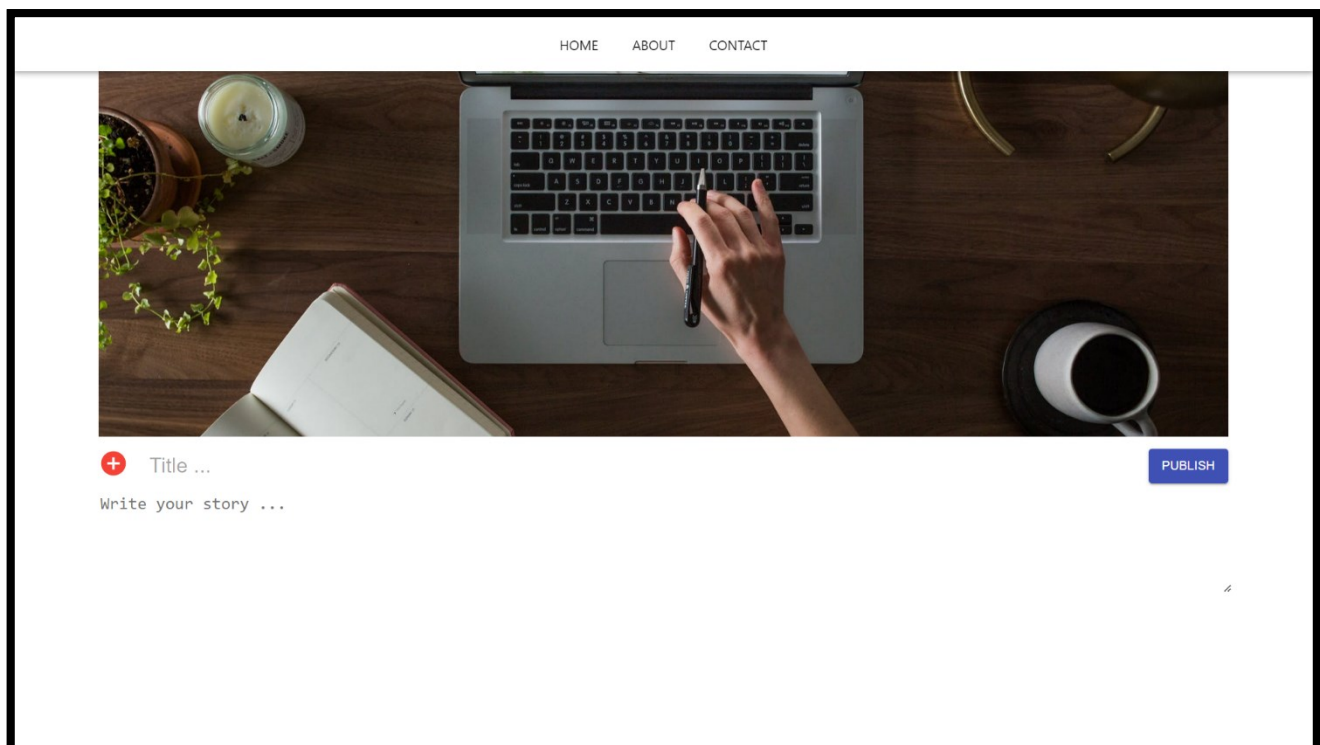
```
import multer from 'multer';
import { GridFsStorage } from 'multer-gridfs-storage';
const storage = new GridFsStorage({
  url: 'mongodb://anubhavlal:anubhavlal@blogwebsite-shard-00-00.whzc5.mongodb.net:27017,blogwebsite-shard-00-01.whzc5.mongodb.net:27017,blogwebsite-shard-00-02.whzc5.mongodb.net:27017/BLOG?ssl=true&replicaSet=atlas-5z6lc8-shard-0&authSource=admin&retryWrites=true&w=majority',
  options: { useNewUrlParser: true, useUnifiedTopology: true },
  file: (request, file) => {
    const match = ["image/png", "image/jpg"];
    if (match.indexOf(file.mimeType) === -1)
    {
      return `${Date.now()}-blog-${file.originalname}`;
    }
    else {
      return {
        bucketName: 'photos',
        filename: `${Date.now()}-blog-${file.originalname}`
      }
    }
  }
})
export default multer ({storage});
```

5.3 SAMPLE SCREENSHOT

HOME PAGE






CREATE VIEW



DETAILED VIEW

[HOME](#)
[ABOUT](#)
[CONTACT](#)



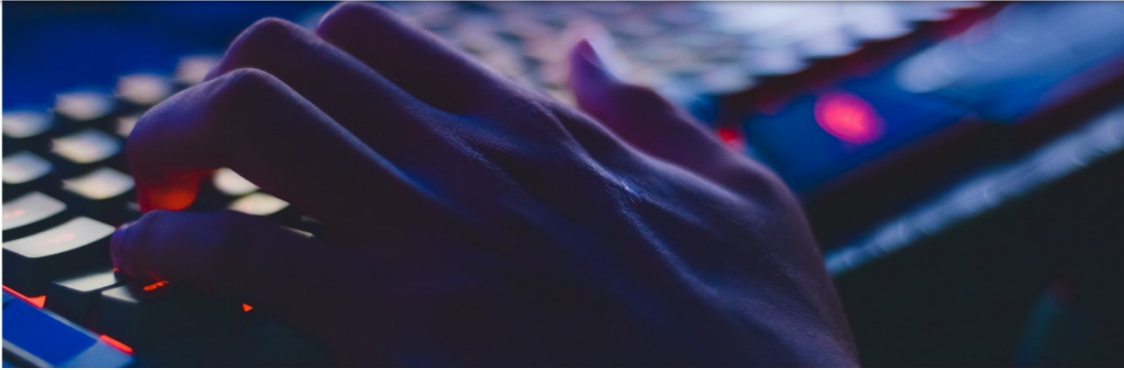
Useful npm Tips and Tricks that Developers Should Know



Author: anubhavlal Sat Dec 18 2021

Node Package Manager, or npm, is a tool to install and manage JavaScript packages in your project. And if you have Node installed on your computer, you have already have npm as well. NPM Tips and Tricks npm Commands You Should Know This is not a tutorial for learning npm, the official docs are good place to get started, but a collection of tips and tricks that will help you do more with the npm utility. Let's jump right into the list of useful commands: Instantly run packages without installing The NPM registry is a treasure trove for finding packages that do useful stuff and aren't just for programmers. For instance, the speed-test package shows the speed of your internet connection. The emoji packages helps you search for emojis from the terminal. And wifi-passwords is a simple way to know the password of your current WiFi network. You can run these utility packages directly from the command line without installing them using the npx command. npx speed-test npx emoji unicorn npx public-ip-cli npx wifi-password-cli Install npm packages faster You've probably used npm install to install packages, and dependencies, in the local node_modules folder of a project. Replace this command with npm-ci and you'll be able to install packages significantly faster. npm ci If a node_modules folder is already present, it will be automatically removed before npm ci begins to install packages. Recover space If you have been working with npm packages for some time, the various node_modules folders on the disks could be consuming several gigabytes of space. The very useful npkill finds all node_modules folders on your system and lets you delete them interactively. npx npkill Quickly download a Git

UPDATE VIEW

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Useful npm Tips and Tricks that Developers Should Know

Node Package Manager, or npm, is a tool to install and manage JavaScript packages in your project. And if you have Node installed on your computer, you have already have npm as well.

NPM Tips and Tricks

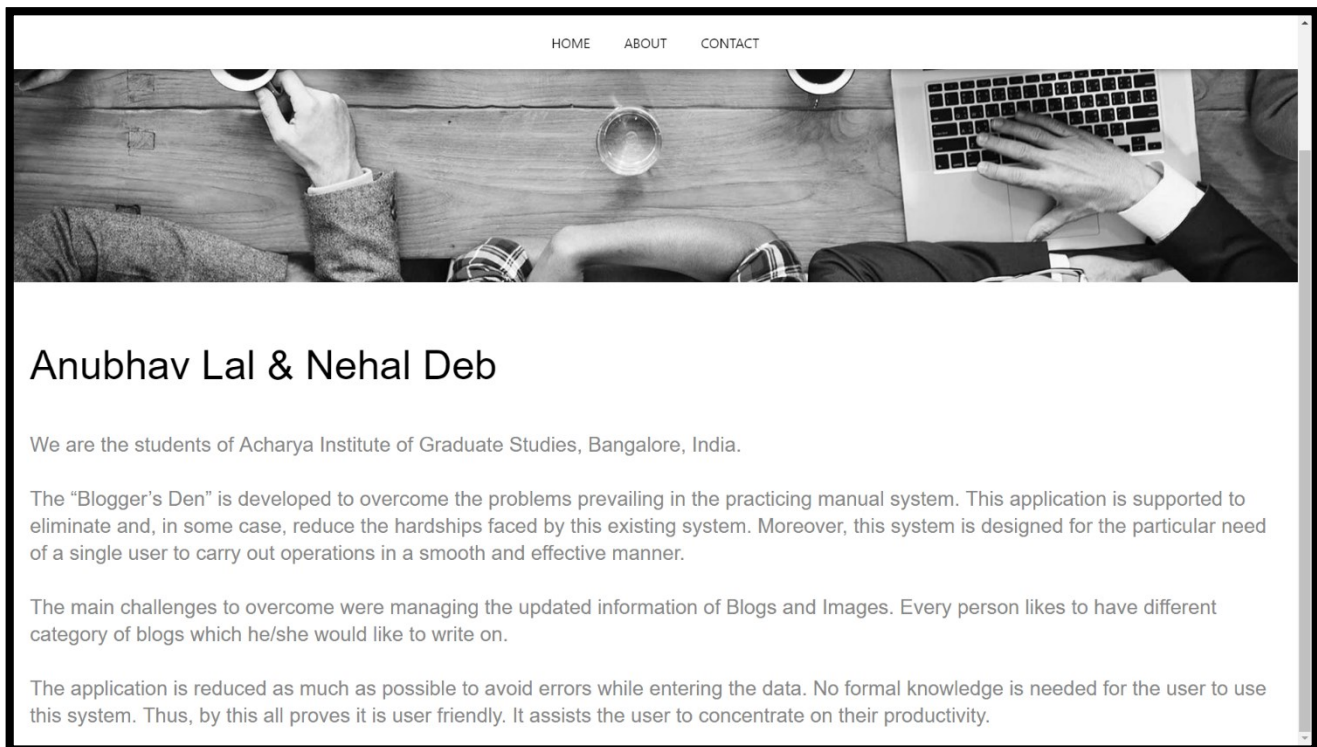
npm Commands You Should Know

This is not a tutorial for learning npm, the official docs are good place to get started, but a collection of tips and tricks that will help you do more with the npm utility.

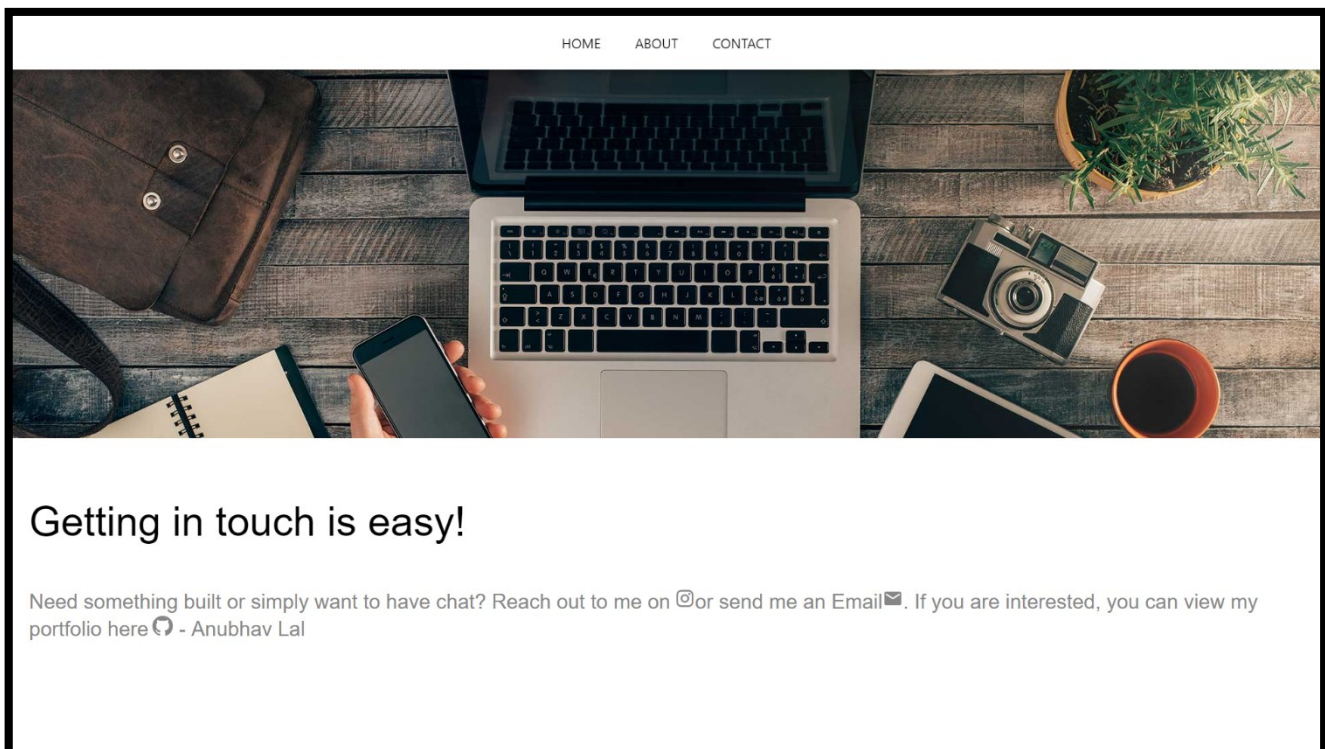
Let's jump right into the list of useful commands:

Instantly run packages without installing
The NPM registry is a treasure trove for finding packages that do useful stuff and aren't just for programmers.

ABOUT PAGE



CONTACT PAGE



6.TESTING AND REPORT

6.1 INTRODUCTION TO SYSTEM TESTING:

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of tests. Each test type addresses a specific testing requirement.

6.2 TYPES OF TESTING:

6.2.1 Unit testing:

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application. It is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

6.2.2 Integration testing:

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfactory, as shown by successful unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

6.2.3 Functional test:

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals. Functional testing is centered on the following items:

Valid Input: identified classes of valid input must be accepted.

Invalid Input: identified classes of invalid input must be rejected.

Functions: identified functions must be exercised.

Output: identified classes of application outputs must be exercised.

Systems/Procedures: interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes must be considered for testing. Before functional testing is complete, additional tests are identified and the effective value of current tests is determined.

6.2.4 System Test:

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

6.2.5 White Box Testing:

White Box Testing is a testing in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is used to test areas that cannot be reached from a black box level.

6.2.6 Black Box Testing:

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box. you cannot “see” into it. The test provides inputs and responds to outputs without considering how the software works.

6.2.7 Unit Testing:

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

Test strategy and approach

Field testing will be performed manually and functional tests will be written in detail.

Test objectives

- All field entries must work properly.
- Pages must be activated from the identified link.
- The entry screen, messages and responses must not be delayed.

Features to be tested

- Verify that the entries are of the correct format
- No duplicate entries should be allowed
- All links should take the user to the correct page.

Integration Testing:

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects. The task of the integration test is to check that components or software applications, e.g., components in a software system or – one step up – software applications at the company level – interact without error.

Test Results:

All the test cases mentioned above passed successfully. No defects encountered.

Acceptance Testing:

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the functional requirements.

Test Results:

All the test cases mentioned above passed successfully. No defects encountered.

Below are the test cases for the Job Search Portal web application.

TEST MODULE	TEXT CASE	EXPECTED RESULT	TEST RESULT
USER	Creates a blog with valid title and description.	The blog gets successfully saved in the database and gets displayed on the home page.	PASS
USER	Creates a blog with invalid title or description.	The application gets redirected to the home page and the data gets rejected.	PASS
USER	Tries to delete a blog from the pool of posts.	The blog gets deleted from the array of posts and from the database.	PASS
USER	Tries to update the details of the blog like title, description or the image.	The blog gets updated in the database and gets reflected back in the application.	PASS

7. CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the college. The objective of software planning is to provide a framework that enables the user to create a blog with minimal efforts.

At the end it is concluded that we have made effort on the following points: -

- A description of the background and context of the project and its relation to work already done in the area.
- We mentioned the technologies used in order to make this project.
- We understood the problems faced the by the user and tried to developed an application to eradicate the problem.
- We included features and operations in detail, including screen layouts.

Starting from requirements elicitation to design, construction, implementation and testing, I have gained a very good experience working with various technologies at every phase. Development of this project boosted my confidence in web development.

8. FUTURE ENHANCEMENTS

- ✓ We can give more advance software for blogging application including more facilities.
- ✓ We will host platform on online servers to make it accessible worldwide.
- ✓ Integrated multiple load balancer to distribute the loads of the system.
- ✓ Create the master and slave database structure to reduce the overload of the database queries.
- ✓ Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.

The above-mentioned points are the enhancement which can be done to increase the applicable and usage of this project. Here we can maintain the records of blogs and comment. Also, as it can be seen now-a-days the players are versatile, i.e., so there is a scope for introducing a method to maintain all the blogs, comment and image.

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