

A PROJECT REPORT

ON



FORTUNE-MAKER

SUBMITTED BY

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Declaration

We hereby declare that the work in the project report entitled "**FORTUNE MAKER**" GLA University ,Mathura for the award of degree of "B.Tech" is an authentic record of my work carried out during the Fifth semester Third year, 2022 under the supervision of Mr. Amir Khan. The matter embodied in this project report has not been submitted elsewhere by anybody for the award of any other degree/diploma.

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I also thank the librarian and other staff members for their service. finally a word of gratitude to all my classmates, and my parents. Without a wise valuable support, this project work would not have been completed

Index

TITLE	Page No.
1. INTRODUCTION	5
1.1 Project Overview	5
1.2 Project Description	5
2. TECHNOLOGIES USED	6
2.1 HTML	6
2.2 CSS	8
2.3 JAVASCRIPT	9
2.4 BOOTSTRAP	10
2.5 NODE JS	11
2.6 EXPRESS JS	13
3. SOFTWARE REQUIREMENT	14
4. TESTING	16
5. IMPLEMENTATION AND USER INTERFACE	19
6. CONCLUSION	27
7. REFERENCES	28

INTRODUCTION

1.1. Project Overview

“FORTUNE MAKER” as the name suggested this website provide the opportunity to the user by provide them resources about the courses that are required in Engineering. This website contains all the information about the jobs.

1.2. Project Description

“FORTUNE MAKER” is the website which provides you with all the information about the opportunity that surrounds you. It gives you information about the jobs that have vacancies available. It provides you the opportunity to develop your personality in a whole new way.

This website introduce you to whole new world. It provides new experiences that helps you to see the life in different perspective. It helps you to explore the new options other than the your academics. This website provides information like company, description, etc about the jobs.

This website is of advantage for the person who is actively looking for jobs. This website is the common platform for all types of jobs such as software, mechanical, SDE-II, Electrical, and many more.

Technologies Used

HTML:

HTML is an acronym which stands for **Hyper Text Markup Language** which is used for creating web pages and web applications. Let's see what is meant by Hypertext Markup Language, and Web page.

Hyper Text: HyperText simply means "Text within Text." A text has a link within it, is a hypertext. Whenever you click on a link which brings you to a new webpage, you have clicked on a hypertext. HyperText is a way to link two or more web pages (HTML documents) with each other.

Markup language: A markup language is a computer language that is used to apply layout and formatting conventions to a text document. Markup language makes text more interactive and dynamic. It can turn text into images, tables, links, etc.

Web Page: A web page is a document which is commonly written in HTML and translated by a web browser. A web page can be identified by entering an URL. A Web page can be of the static or dynamic type. **With the help of HTML only, we can create static web pages.**

Description of HTML Example

<!DOCTYPE>: It defines the document type or it instruct the browser about the version of HTML.

<html >: This tag informs the browser that it is an HTML document. Text between html tag describes the web document. It is a container for all other elements of HTML except **<!DOCTYPE>**

<head>: It should be the first element inside the **<html>** element, which contains the metadata(information about the document). It must be closed before the body tag opens.

<title>: As its name suggested, it is used to add title of that HTML page which appears at the top of the browser window. It must be placed inside the head tag and should close immediately. (Optional)

<body> : Text between body tag describes the body content of the page that is visible to the end user. This tag contains the main content of the HTML document.

<h1> : Text between **<h1>** tag describes the first level heading of the webpage.

Brief History of HTML

In the late 1980's , a physicist, Tim Berners-Lee who was a contractor at CERN, proposed a system for CERN researchers. In 1989, he wrote a memo proposing an internet based hypertext system.

Tim Berners-Lee is known as the father of HTML. The first available description of HTML was a document called "HTML Tags" proposed by Tim in late 1991. The latest version of HTML is HTML5, which we will learn later in this tutorial.

HTML Versions

Since the time HTML was invented there are lots of HTML versions in market, the brief introduction about the HTML version is given below:

HTML 1.0: The first version of HTML was 1.0, which was the barebones version of HTML language, and it was released in 1991.

HTML 2.0: This was the next version which was released in 1995, and it was standard language version for website design. HTML 2.0 was able to support extra features such as form-based file upload, form elements such as text box, option button, etc.

HTML 3.2: HTML 3.2 version was published by W3C in early 1997. This version was capable of creating tables and providing support for extra options for form elements. It can also support a web page with complex mathematical equations. It became an official standard for any browser till January 1997. Today it is practically supported by most of the browsers.

HTML 4.01: HTML 4.01 version was released on December 1999, and it is a very stable version of HTML language. This version is the current official standard, and it provides added support for stylesheets (CSS) and scripting ability for various multimedia elements.

HTML5 : HTML5 is the newest version of HyperText Markup language. The first draft of this version was announced in January 2008. There are two major organizations one is W3C (World Wide Web Consortium), and another one is WHATWG(Web Hypertext Application Technology Working Group) which are involved in the development of HTML 5 version, and still, it is under development.

Features of HTML

- 1) It is a very **easy and simple language**. It can be easily understood and modified.
- 2) It is very easy to make an **effective presentation** with HTML because it has a lot of formatting tags.
- 3) It is a **markup language**, so it provides a flexible way to design web pages along with the text.
- 4) It facilitates programmers to add a **link** on the web pages (by html anchor tag), so it enhances the interest of browsing of the user.

- 5) It is **platform-independent** because it can be displayed on any platform like Windows, Linux, and Macintosh, etc.
- 6) It facilitates the programmer to add **Graphics, Videos, and Sound** to the web pages which makes it more attractive and interactive.
- 7) HTML is a case-insensitive language, which means we can use tags either in lower-case or upper-case

CSS:

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML. It is generally used with HTML to change the style of web pages and user interfaces. It can also be used with any kind of XML documents including plain XML, SVG and XUL.

CSS is used along with HTML and JavaScript in most websites to create user interfaces for web applications and user interfaces for many mobile applications.

What does CSS do

- o You can add new looks to your old HTML documents.
 - o You can completely change the look of your website with only a few changes in CSS code.
-

Why use CSS

These are the three major benefits of CSS:

1) Solves a big problem

Before CSS, tags like font, color, background style, element alignments, border and size had to be repeated on every web page. This was a very long process. For example: If you are developing a large website where fonts and color information are added on every single page, it will become a long and expensive process. CSS was created to solve this problem. It was a W3C recommendation.

2) Saves a lot of time

CSS style definitions are saved in external CSS files so it is possible to change the entire website by changing just one file.

3) Provide more attributes

CSS provides more detailed attributes than plain HTML to define the look and feel of the website.

JAVASCRIPT:

What is JavaScript

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. It was introduced in the year 1995 for adding programs to the webpages in the Netscape Navigator browser. Since then, it has been adopted by all other graphical web browsers. With JavaScript, users can build modern web applications to interact directly without reloading the page every time. The traditional website uses js to provide several forms of interactivity and simplicity.

Although, JavaScript has no connectivity with Java programming language. The name was suggested and provided in the times when Java was gaining popularity in the market. In addition to web browsers, databases such as CouchDB and MongoDB uses JavaScript as their scripting and query language.

Features of JavaScript

There are following features of JavaScript:

1. All popular web browsers support JavaScript as they provide built-in execution environments
2. JavaScript follows the syntax and structure of the C programming language. Thus, it is a structured programming language.
3. JavaScript is a weakly typed language, where certain types are implicitly cast (depending on the operation).
4. JavaScript is an object-oriented programming language that uses prototypes rather than using classes for inheritance.
5. It is a light-weighted and interpreted language.
6. It is a case-sensitive language.
7. JavaScript is supportable in several operating systems including, Windows, macOS, etc.
8. It provides good control to the users over the web browsers.

History of JavaScript

In 1993, **Mosaic**, the first popular web browser, came into existence. In the **year 1994**, **Netscape** was founded by **Marc Andreessen**. He realized that the web needed to become more dynamic. Thus, a 'glue language' was believed to be provided to HTML to make web designing easy for designers and part-time programmers. Consequently, in 1995, the company recruited **Brendan Eich** intending to implement and embed Scheme programming language to the browser. But, before Brendan could start, the company merged with **Sun Microsystems** for adding Java into its Navigator so that it could compete with Microsoft over the web technologies and platforms. Now, two languages were there: Java and the scripting language. Further, Netscape decided to give a similar name to the scripting language as Java's. It led to 'Javascript'. Finally, in May 1995, Marc Andreessen coined the first code of Javascript named '**Mocha**'. Later, the marketing team replaced the name with '**LiveScript**'. But, due to trademark reasons and certain other reasons, in December 1995, the language was finally renamed to 'JavaScript'. From then, JavaScript came into existence.

Application of JavaScript

JavaScript is used to create interactive websites. It is mainly used for:

- o Client-side validation,
- o Dynamic drop-down menus,
- o Displaying date and time,
- o Displaying pop-up windows and dialog boxes (like an alert dialog box, confirm dialog box and prompt dialog box),
- o Displaying clocks etc.

What is Bootstrap

- o Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website.
- o It is absolutely free to download and use.
- o It is a front-end framework used for easier and faster web development.
- o It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others.
- o It can also use JavaScript plug-ins.
- o It facilitates you to create responsive designs.

History of Bootstrap

Bootstrap was developed by Mark Otto and Jacob Thornton at Twitter. It was released as an open source product in August 2011 on GitHub.

In June 2014 Bootstrap was the No.1 project on GitHub.

Why use Bootstrap

Following are the main advantage of Bootstrap:

- o It is very easy to use. Anybody having basic knowledge of HTML and CSS can use Bootstrap.
- o It facilitates users to develop a responsive website.
- o It is compatible on most of browsers like Chrome, Firefox, Internet Explorer, Safari and Opera etc.

What is a responsive website

A website is called responsive website which can automatically adjust itself to look good on all devices, from smart phones to desktops etc.

What Bootstrap package contains

Scaffolding: Bootstrap provides a basic structure with Grid System, link styles, and background.

CSS: Bootstrap comes with the feature of global CSS settings, fundamental HTML elements style and an advanced grid system.

Components: Bootstrap contains a lot of reusable components built to provide iconography, dropdowns, navigation, alerts, pop-overs, and much more.

JavaScript Plugins: Bootstrap also contains a lot of custom jQuery plugins. You can easily include them all, or one by one.

Customize: Bootstrap components are customizable and you can customize Bootstrap's components, LESS variables, and jQuery plugins to get your own style.

What is Node.js?

Node.js is a cross-platform runtime environment and library for running JavaScript applications outside the browser. It is used for creating server-side and networking web applications. It is open source and free to use. It can be downloaded from this link <https://nodejs.org/en/> the basic modules of Node.js are written in JavaScript. Node.js is mostly used to run real-time server applications.

The definition given by its official documentation is as follows:

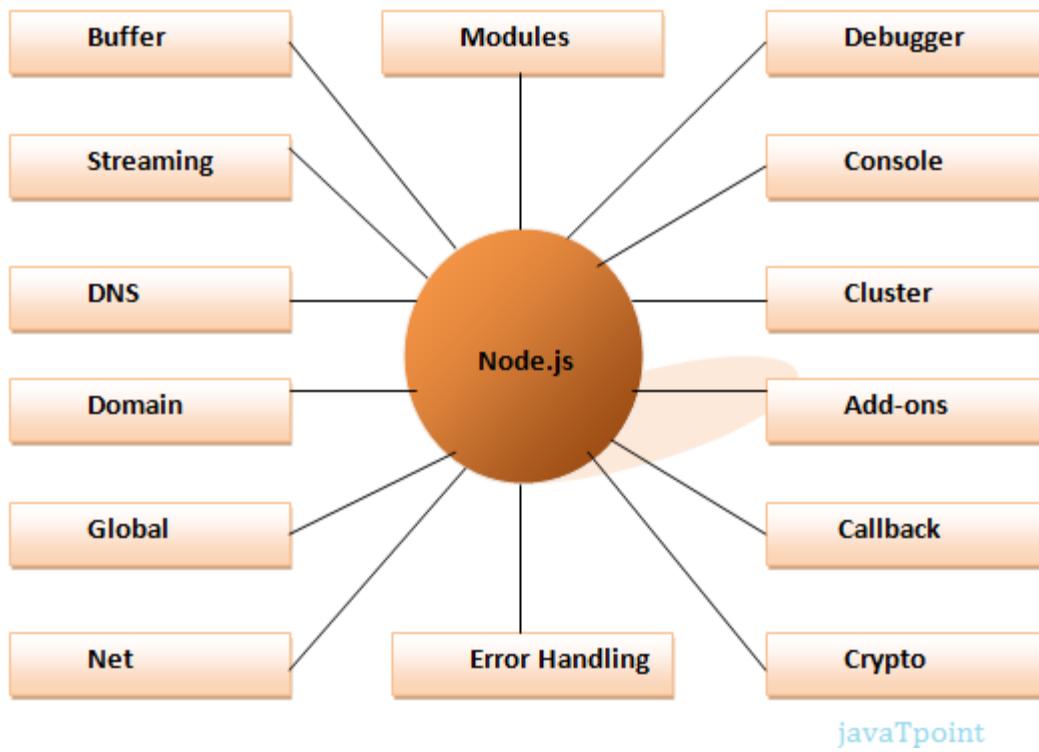
Node.js is a platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.?

Node.js also provides a rich library of various JavaScript modules to simplify the development of web applications.

Node.js = Runtime Environment + JavaScript Library

Different parts of Node.js

The following diagram specifies some important parts of Node.js:



javaTpoint

Features of Node.js

Following is a list of some important features of Node.js that makes it the first choice of software architects.

1. **Extremely fast:** Node.js is built on Google Chrome's V8 JavaScript Engine, so its library is very fast in code execution.
2. **I/O is Asynchronous and Event Driven:** All APIs of Node.js library are asynchronous i.e. non-blocking. So a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call. It is also a reason that it is very fast.
3. **Single threaded:** Node.js follows a single threaded model with event looping.
4. **Highly Scalable:** Node.js is highly scalable because event mechanism helps the server to respond in a non-blocking way
5. **No buffering:** Node.js cuts down the overall processing time while uploading audio and video files. Node.js applications never buffer any data. These applications simply output the data in chunks.

6. **Open source:** Node.js has an open source community which has produced many excellent modules to add additional capabilities to Node.js applications.

What is Express.js?

Express is a fast, assertive, essential and moderate web framework of Node.js. You can assume express as a layer built on the top of the Node.js that helps manage a server and routes. It provides a robust set of features to develop web and mobile applications.

Let's see some of the core features of Express framework:

- It can be used to design single-page, multi-page and hybrid web applications.
- It allows to setup middlewares to respond to HTTP Requests.
- It defines a routing table which is used to perform different actions based on HTTP method and URL.
- It allows to dynamically render HTML Pages based on passing arguments to templates.

Why use Express

- Ultra fast I/O
- Asynchronous and single threaded
- MVC like structure
- Robust API makes routing easy.

SOFTWARE REQUIREMENT

3.1. Software Requirements

- **System Software**
 - **Operating System:** Windows 10, Linux
- **Application Software**
 - **Tools:** GitHub, VS Code
 - **Front-end:**
 - HTML
 - CSS
 - JavaScript
 - Bootstrap
 - **Back-end:**
 - Node Js
 - Express Js
 - MongoDB
 - EJS

3.2. Installation of VS Code

VS Code is a free code editor, which runs on the macOS, Linux, and Windows operating systems.

VS Code is lightweight and should run on most available hardware and platform versions. You can review the [System Requirements](#) to check if your computer configuration is supported.

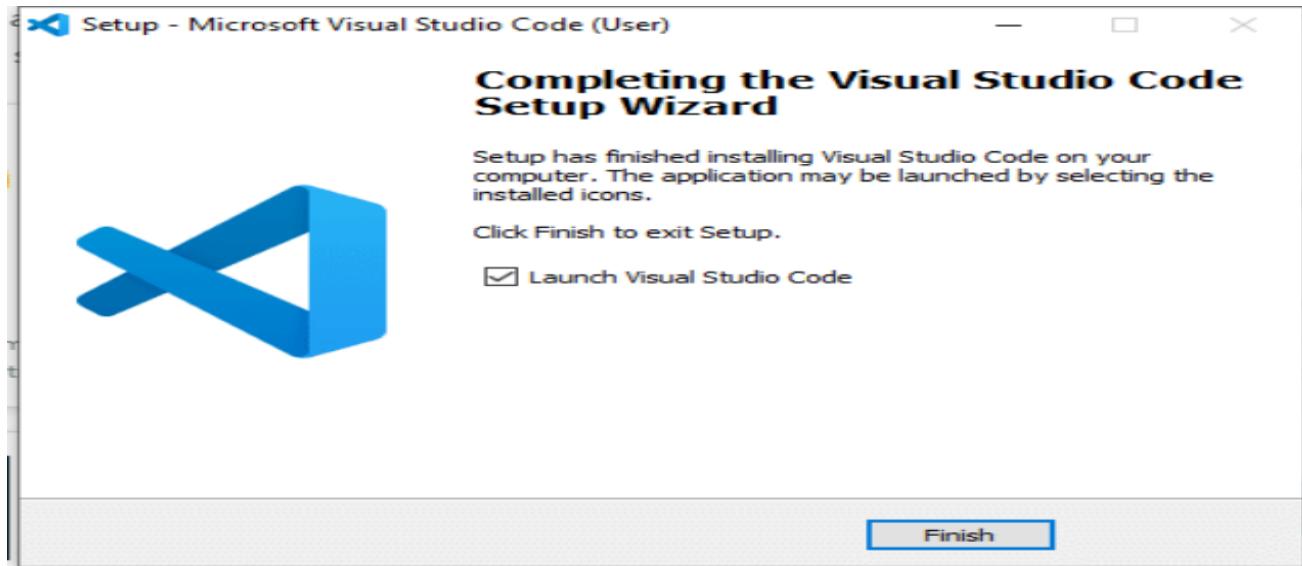


Fig1. Finish up Installing

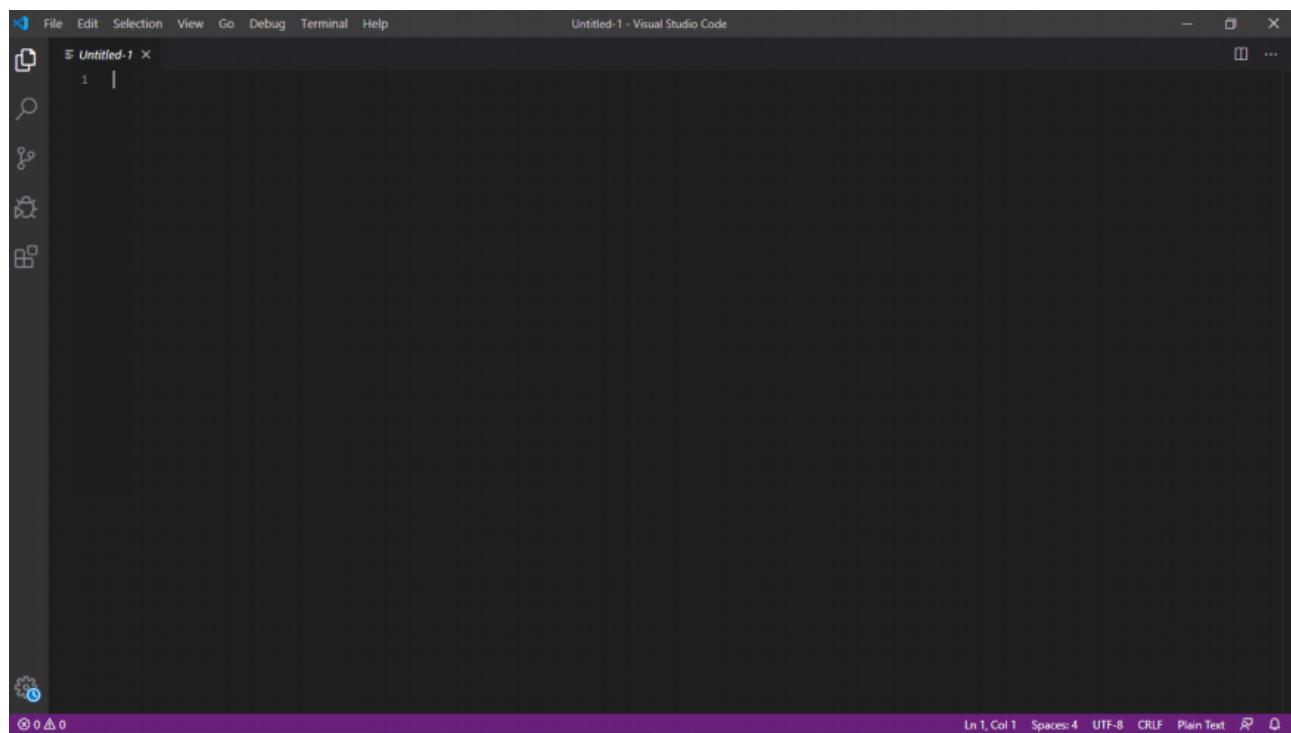


Fig2. VS Code Window

SOFTWARE TESTING

4.1 Introduction

Once source code has been generated, software must be tested to uncover as many errors as possible before delivery. It is very important to work the system successfully and achieve high quality of software. Testing include designing a series of test cases that have a high likelihood of finding errors by applying software-testing techniques. System testing makes logical assumptions that if all the parts of the system are correct, the goal will be successfully achieved. The system should be checked logically. Validations and cross checks should be there. Avoid duplications of record that cause redundancy of data. In other Words, Testing is the process of evaluating a system or its component(s) with the intent to find whether it satisfies the specified requirements or not. It is executing a system in order to identify any gaps, errors, or missing requirements in contrary to the actual requirements.

The preliminary goal of implementation is to write source code and internal documentation so that conformance of the code to its specifications can be easily verified, and so that debugging, testing and modifications are eased. This goal can be achieved by making the source code as clear and straightforward as possible. Simplicity, clarity and elegance are the hallmark of good programs, obscurity, cleverness, and complexity are indications of inadequate design and misdirected thinking. Source code clarity is enhanced by structured coding techniques, by good coding style, by, appropriate supporting documents, by good internal comments, and by feature provided in modern programming languages. The implementation team should be provided with a well-defined set of software requirement, an architectural design specification, and a detailed design description. Each team member must understand the objectives of implementation.

4.2. Error

The term error is used in two ways. It refers to the difference between the actual output of software and the correct output, in this interpretation, error is essential a measure of the difference between actual and ideal. Error is also used to refer to human action that result in software containing a defect or fault.

4.3. Fault

Fault is a condition that causes to fail in performing its required function. A fault is a basic reason for software malfunction and is synonymous with the commonly used term Bug.

4.4. Failure

Failure is the inability of a system or component to perform a required function according to its specifications. A software failure occurs if the behaviour of the software is different from the specified behaviour. Failure may be caused due to functional or performance reasons.

a. Unit Testing

The term unit testing comprises the sets of tests performed by an individual programmer prior to integration of the unit into a larger system. A program unit is usually small enough that the programmer who developed it can test it in great detail, and certainly in greater detail than will be possible when the unit is integrated into an evolving software product. In the unit testing the programs are tested separately, independent of each other. Since the check is done at the program level, it is also called program teasing.

b. Module Testing

A module and encapsulates related component. So can be tested without other system

module.

c. Subsystem Testing

Subsystem testing may be independently design and implemented common problems are sub-system interface mistake in this checking we concenton it. There are four categories of tests that a programmer will typically perform on a program unit.

- i Functional test
- ii Performance test
- iii Stress test
- iv Structure test

4.5 Functional Test

Functional test cases involve exercising the code with Nominal input values for which expected results are known; as well as boundary values (minimum values, maximum values and values on and just outside the functional boundaries) and special values.

4.6 Performance Test

Performance testing determines the amount of execution time spent in various parts of the unit, program throughput, response time, and device utilization by the program unit. A certain amount of avoid expending too much effort on fine-tuning of a program unit that contributes little to the overall performance of the entire system. Performance testing is most productive at the subsystem and system levels.

4.7 Stress Test

Stress test are those designed to intentionally break the unit. A great deal can be learned about the strengths and limitations of a program by examining the manner in which a program unit breaks.

4.8 Structure Test

Structure tests are concerned with exercising the internal logic of a program and

traversing particular execution paths. Some authors refer collectively to functional performance and stress testing as “black box” testing. While structure testing is referred to as “white box” or “glass box” testing. The major activities in structural testing are deciding which path to exercise, deriving test date to exercise those paths, determining the test coverage criterion to be used, executing the test, and measuring the test coverage achieved when the test cases are exercised.

IMPLEMENTATION AND USER INTERFACE

Home page



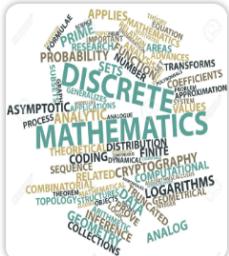
Resources Section

Resources

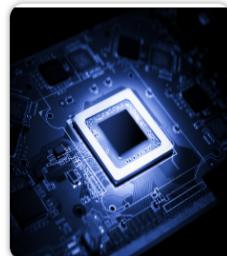
Data Structures



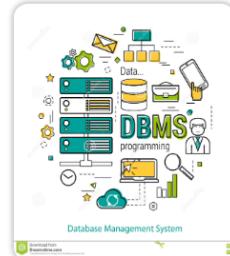
Discrete Maths



Microprocessor



DBMS

[Explore Courses](#)

OUR TEAM

About Section

About Fortune Maker

Site That Connects Seeker To Keeper !

Lorem Ipsum Dolor Sit Amet Consectetur Adipisicing Elit. Cum Veritatis Tempora Earum Dolores Ex! Dolorum Eius Quis Voluptate Dolore. Id Harum Exercitationem Ab Odit, Nulla Libero Eveniet Eligendi Doloremque Veritatis Modi Laudantium, Fugiat Animi Debitus Aliquam Velit Tempora.

[Read More](#)

Sign Up Page (with email verification)

Sign up

Enter Your Name
Your Name

Enter Your Email
Your Email

Enter Your Password
Password

Enter Your University RollNo
Enter Your University RollNo

Enter Your Phone Number
Enter Your Phone Number

[Register](#) [Login](#)



User Login (with verification of user)

User Login

Email Address
Email address

Enter password
Password

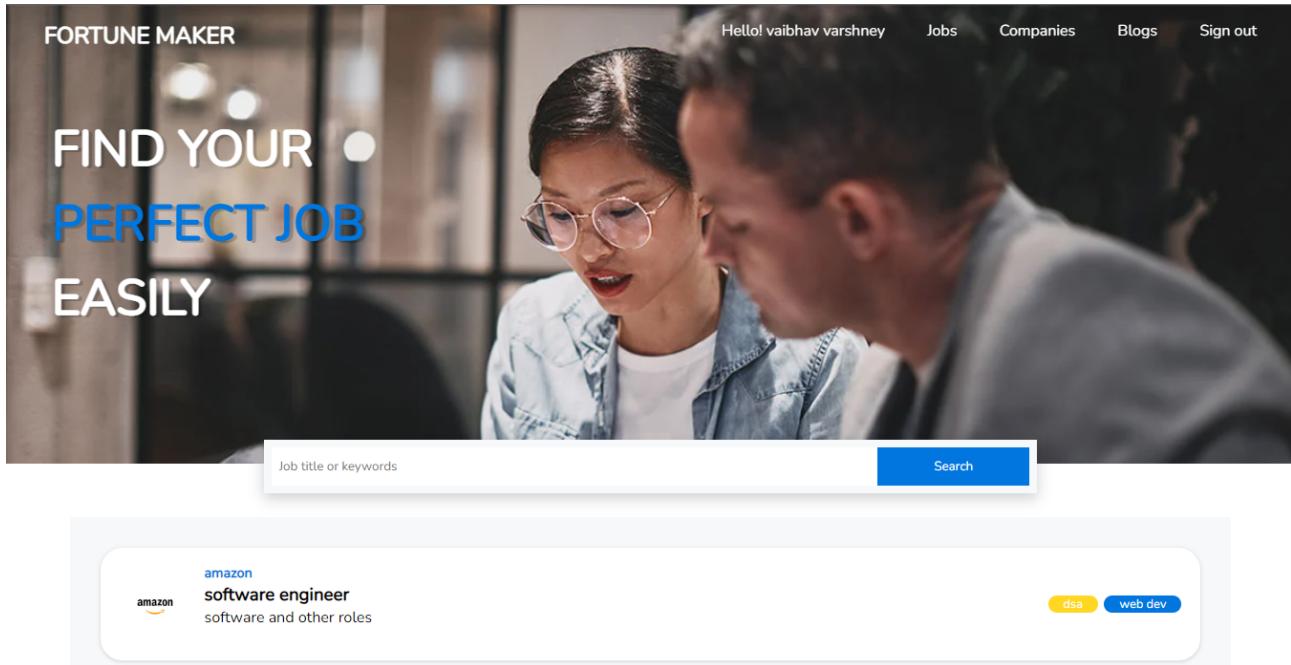
[Forgot password?](#)

[Login](#)

Don't have an account? [Register](#)

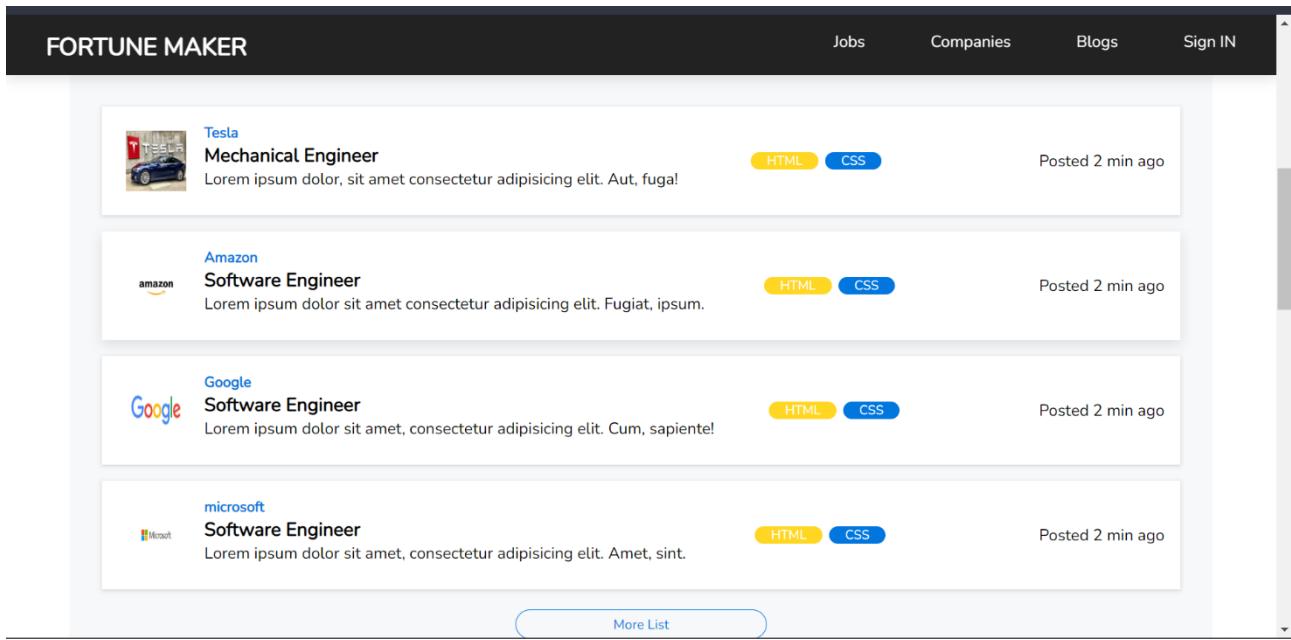


Job portal (with searching functionality)



The image shows the homepage of a job portal. At the top, there is a banner with the text "FORTUNE MAKER" and "Hello vaibhav varshney". Below the banner, there is a large image of two people looking at a screen. To the left of the image, the text "FIND YOUR PERFECT JOB EASILY" is displayed. Below the image is a search bar with the placeholder "Job title or keywords" and a "Search" button. Below the search bar, there is a card for a job listing from Amazon for a software engineer role, mentioning "software and other roles".

Job List



The image shows a list of jobs on the portal. The jobs are listed in a grid format:

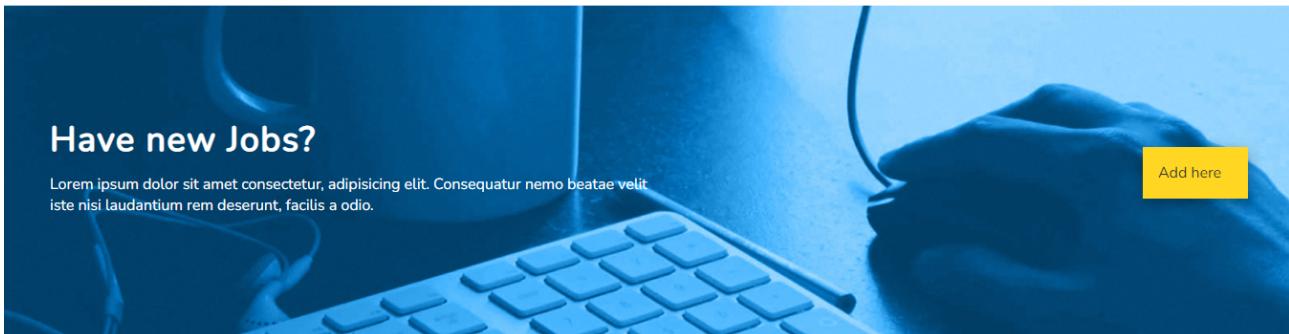
- Tesla**
Mechanical Engineer
Lorem ipsum dolor, sit amet consectetur adipisicing elit. Aut, fuga!
HTML CSS Posted 2 min ago
- Amazon**
Software Engineer
Lorem ipsum dolor sit amet consectetur adipisicing elit. Fugiat, ipsum.
HTML CSS Posted 2 min ago
- Google**
Software Engineer
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Cum, sapiente!
HTML CSS Posted 2 min ago
- microsoft**
Software Engineer
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Amet, sint.
HTML CSS Posted 2 min ago

At the bottom of the list, there is a "More List" button.

Add Your Jobs

FORTUNE MAKER

Hello vaibhav varshney Jobs Companies Blogs Sign out



Have new Jobs?

Add here

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Consequatur nemo beatae velit iste nisi laudantium rem deserunt, facilis a odio.

Featured Companies

Lore ipsum dolor sit, amet consectetur adipisicing elit. Labore odit earum inventore, debitis repellendus facere dolores quo a corporis numquam delectus laborum nobis eius laboriosam autem nesciunt est necessitatibus dicta

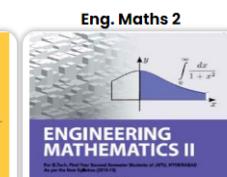
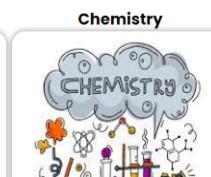
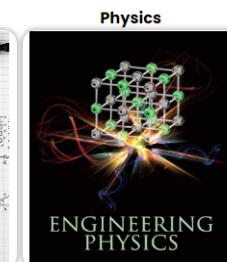
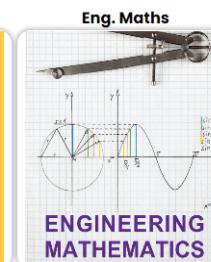
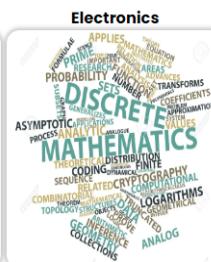
Resources for First Year

FortuneMaker

Home About Resources Job Our Team Contact

Resources

Ist Year



Resources for Second Year

FortuneMaker

Home About Resources Job Our Team Contact

2nd Year

Data Structures

Discrete Maths

Microprocessor

DBMS

Computer Network

Computer Organisation

Java

Operating System

Software Engineering

Admin Panel



Admin Login

vaibhav.varshney2_cs20@gla.ac.in

Email address

.....

Password

[Forgot password?](#)

Login

Don't have an account? [Register](#)

Admin Dashboard

FORTUNE MAKER

Post Jobs Logout Hello! vaibhav varshney

Dashboard

NAME	TOPIC	DESCRIPTION	APPROVE	DENY
vaibhav varshney	cprogramming	The C Language is developed by Dennis Ritchie for creating system applications that directly interact with the hardware devices such as drivers, kernels, etc. C language is considered as the mother language of all the modern programming languages because most of the compilers, JVMs, Kernels, etc. are written in C language, and most of the programming languages follow C	<button>Accept</button>	<button>Reject</button>
vaibhav varshney	engmath	The key technical skill of an engineering mathematician is mathematical modelling. Problem solving of this kind is best learnt by hands-on experience, so that's how we teach it: using case-study applications spanning engineering, the life sciences, medicine, climate science, energy, data science, robotics and more. Mathematical modelling units feature in all our degree programmes. In	<button>Accept</button>	<button>Reject</button>

Add Jobs Form

Add Jobs

Enter Your Name
Your Company Name

Enter The role
Enter the Role

Enter The Job Description
Description

Enter the skill 1
Enter the skill 1

Enter the skill 2
Enter the skill 2

Choose File | No file chosen
Enter the company image



Forgot Password



Forgot Password

Please check your mail to reset your password

Email Address

Email address

Send Reset Email

Don't have an account? [Register](#)

Post Blog Form

Post Blog

Select Subject

Enter the blog

Submit Now

Don't want to write the blog [Go To Home](#)

Blog Post

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About

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Contact



cprogramming

The C Language is developed by Dennis Ritchie for creating system applications that directly interact with the hardware devices such as drivers, kernels, etc. C language is considered as the mother language of all the modern programming languages because most of the compilers, JVMs, Kernels, etc. are written in C language, and most of the programming languages follow C syntax, for example, C++, Java, C#, etc. A system programming language is used to create system software. C language is a system programming language because it can be used to do low-level programming (for example driver and kernel). It is generally used to create hardware devices, OS, drivers, kernels, etc.

CONCLUSION:

The main is to provide the student's opportunities with job vacancy with resources with less distraction and more guidance. The software helps jobs vacancy to maintain day to day records in system. It is keeping a proper record of the database.

Our project repository is available at
<https://github.com/vaibhav0726/Fortune-Maker>

REFERENCES:

- www.javatpoint.com
- www.w3school.com
- www.tutorialspoint.com
- www.youtube.com
- www.google.com
- www.w3schools.com
- www.pustakalaya.com
- www.wikipedia.com