FULL STACK USING NODE JS PROJECT-II

SYNOPSIS

ON

MODEL PORTFOLIO TEMPLATE

Submitted By:

Name: Ritik Gupta

Branch: B. Tech (Computer Science)

Year/Section : III / C

University Roll NO: 191500659

Submitted To:

Faculty Name: Mr. Mandeep Singh

(Technical Trainer)

INTRODUCTION

Modern communication methods have dramatically changed yet some processes are grounded in the past. One of those processes is the employment application process, in this case for engineering positions.

Typically this process involves an applicant responding to an open position with a cover letter and resume often submitted electronically. It is proposed that an engineering portfolio format allows engineering students to showcase accomplishments and provides potential employers with greater insight into their competencies and abilities. The material presented in an applicant's professional portfolio may include research findings, artifacts from course work, results from extracurricular activities, and personal endeavors. It is proposed that an applicant with a high quality professional portfolio also has high degrees of creativity, innovation, and initiative, all of which may resonate with future employers and increase their employability competitiveness.

The use of engineering portfolios as a component of a job application addresses emerging trends in education and business. While the pursuit of an education is primarily an individualistic "selfcentered" activity, employment within an organization is team-based. Also, much of the education process centers on the achievement of objectives (often by demonstrating what an individual knows) while industry focuses on applied problem solving. As such, applicants must shape their internal views of "what I can do" to align with industry needs of "what can you do for our company."

The traditional tools of the application process – the cover letter and resume – require the employer map the alignment between an individual's skills and the company's requirements. An engineering portfolio makes this mapping more direct, with the applicant directly aligning examples of problem solving to the corporate needs.

EXISTING SYSTEM

The model portfolio is a valuable mechanism to present materials, collected over a period of time, that demonstrate a person's ability within a specific subject area. This section identifies four-steps to create an engineering portfolio: collecting content, organizing content, creating narratives (including reflection), and displaying content. The authors do not favor either a specific format (hardcopy or digital) of the portfolio, leaving that decision to the individual applying to specific employers. For the sake of this discussion, the development of a web-based portfolio will be detailed, noting that the collected contents could be converted to a hardcopy format. This process was developed from personal experience and the review of best practices from a variety of resources. Some best existing tools for making portfolios are:-

1. Adobe Portfolio
2. Flipsnack
3. Canva
4. Online portfolio maker

The concept of engineering portfolios as a tool to increase an individual's competitiveness for industry jobs has been the subject of other reviews. An interactive portfolio is proposed to engage reviewers in web-based applications that demonstrate the competencies and abilities of computer programmers.
The interactive portfolio is described as including "graphical snapshots of programs in action and links to downloadable source code and executable files."

USE OF THE PROJECT

Portfolios are used by working professionals, companies and students to highlight their best work and display accomplishments, skills and potential. They visually showcase examples of work, while a resume only provides bullet points. The link to digital portfolios can be included on a resume or a cover letter, or sent to an interviewer or client prior to an in-person meeting.

"A person with a well-designed and -developed portfolio will stand out when competing for jobs. If all other things are equal in the competition for a job, *individuals with a portfolio will win* ***over those who don't have one."***

Types of Portfolios

- **Business** portfolios display work a company has accomplished. These typically are crafted specifically to a prospective client's needs. They might include case studies from past work, awards and recognition, and information about executives and the management team for the specific job.
- **Creative** portfolios can be used for artists, photographers, actors and models, writers, visual and musical artists. These portfolios will focus on creative products that best highlight their accomplishments and abilities.
- **Educational** portfolios highlight a scholar's achievements in academia including awards, recognitions and scholarly accomplishments like journal articles and other publications.
- **Engineering and Architectural** portfolios highlight strategic accomplishments, prototype designs and completed works. They may include photos as well as blueprints and phases of design that highlight how the project was constructed from beginning to end.

FEASIBILITY OF PROJECT

As the name implies, a **feasibility study** is used to determine the viability of an idea, such as ensuring a project is legally and technically feasible as well as economically justifiable. It tells us whether the project is worth the investment- in some cases, a project may not be doable. In project feasibility, following should be taken to consideration:

* A brief description of the work.
* The part of the work being examined.
* The human and economic factor.
* The possible solutions to the problems.

Technical Feasibility :- It is the complete study of the project in terms of input, processes, output, fields, programs, and procedures. It is very effective tool for long term planning and trouble shooting.

Financial Feasibility :- The following parameters are:-

*Total estimated cost of the project.
*Financing of the project in terms of its capital structure.
*Existing investment by the promoter in any other business.
*Projected cash flow and profitability.

Schedule Feasibility :- A project will fail if it takes too long to be completed before it is useful. It is a measure of how reasonable the project timetable is. It is necessary to determine whether deadlines are mandatory or desirable.

FUNCTIONAL SPECIFICATION

This portfolio website has various functionalities which made it possible to look more attractive to users.

- **Home Section** consists of users name, task bar consists of (Home User Name, About , Projects, Resume, Skills , Get in Touch Section) .
- In Home Page we have several section:-

1. **UserName**:- With a theme background with a tag line.
2. **Several links to social accounts**:- Like GitHub, Facebook, WhatsApp, Instagram and LinkedIn according to users input.

- **About Section** :- Users Profile description with an image**.**
- In about section there is a button that is link to the user input resume.
- **Project Section:-** User projects to be displayed according to GitHub pages API.
- **Skills Section:-** Display user skills in both Technical Skills And Soft Skills.
- **Get in Touch Section:-** User email id is displayed with some messages .

Github Link:-

https://github.com/ritikgupta2109/Model_Portfolio_Template

SOFTWARE SPECIFICATION

- Technology Implemented (Backend) :- NodeJS, React
- Languages used(Frontend) :- HTML, CSS, ReactJS, Redux, Bootstrap4
- Language used (Backend) :- JavaScript
- IDE :- VsCode
- Other Technology Implemented are :- Github pages and Github API,.

HARDWARE REQUIREMENTS

- Processor used :- Intel i5
- Operating System used :- Windows 8/10/11
- RAM used :- 8GB
- Hardware device :- Computer System
- Hard disk :- 1TB
- Display Screen :- Laptop Screen

FUTURE SCOPE

The model portfolio template is an important tool for new engineers not only to secure a first position, but also as a mechanism to use for future positions, with the original experiences augmented with industrial experiences. It is expected that engineers be life-long learners, and the engineering portfolio is an excellent forum to document that learning process.

A portfolio is a valuable mechanism to present materials, collected over a period of time, that demonstrate a person's ability within a specific subject area. This section identifies four-steps to create an engineering portfolio: collecting content, organizing content, creating narratives (including reflection), and displaying content. The authors do not favor either a specific format (hardcopy or digital) of the portfolio, leaving that decision to the individual applying to specific employers. For the sake of this discussion, the development of a web-based portfolio will be detailed, noting that the collected contents could be converted to a hardcopy format. This process was developed from personal experience and the review of best practices from a variety of resources.