COSC 2956

Name: Debolina Das
Student ID: 219669550

Personal Portfolio Site

Project Summary:

The current project involves the development of a personal portfolio site. I have summarized what I have tried to do and what technology decisions were taken as a result of that. In terms of the design, I wanted it to be clean, modern, and professional. I wanted the site to showcase my skills and past projects while also being easy to navigate for potential employers or clients. In order to achieve this, I have used HTML, CSS, and JavaScript for the front-end, and PHP for the back-end. I chose PHP because it is a widely used server-side scripting language that can handle complex data and is compatible with various databases. I have used Bootstrap, a popular front-end framework, to ensure a responsive and mobile-friendly design.

For the interactive webpage, I have included a contact form that visitors can use to send me messages. I have also used JavaScript to add some animations and interactivity to the site, such as a navigation bar that collapses and expands on click. To ensure correctness and runability, I have tested my code extensively before deploying it. I have also used the W3C validator to ensure that my code meets accessibility standards and is error-free.

For ease of use, I have kept the design simple and intuitive. Visitors should be able to navigate the site easily and find the information they need without any confusion.

To ensure security, I have implemented measures such as password-protected directories and using HTTPS to encrypt data sent between the server and the client.

Finally, to make the site easy to maintain, I have organized my code and used comments to explain what each section does. I have also used version control to keep track of changes and make it easier to roll back if needed.

Now, for the website, I have created a personal portfolio site with the following pages:

Home page (index.html)
About page (about.html)
Skills page (skills.html)
Projects page (projects.html)
Contact page (contact.html)
Blog page (contact.html)

The following is a brief overview of what each page includes:

Home page: This is the landing page of the site, featuring a introduction section with my name and tagline, as well as links to other sections of the site. It will also include a brief description of who I am and what I do.

About page: This page provides more information about me, including my background, education, and work experience. It also includes a section on my interests and hobbies.

Skills page: On this page, I have listed my technical skills and rated my proficiency in each one.

Projects page: This page showcases my past projects, with descriptions and links to their live sites or repositories.

Contact page: This page features a contact form that visitors can use to send me messages. It will also include my email address and links to my social media profiles.

Blog page: This page is where I post articles on various topics related to web development and technology.

Implementation:
The server side script contact.php code first checks if all the required fields are filled in and if the email address is valid. If any of the fields are empty or the email address is not valid, it returns an error message. If all the fields are valid, it creates an email message with the name, email address, subject, and message. It then uses the mail() function to send the email to the specified email address.

Javascript code has been written to make this webpage more responsive. This code adds a function that toggles the class of the navigation menu to make it responsive, and then adds an event listener to the menu icon to call this function when it is clicked.

In order to create a working contact form, a database table has been created to store the submitted form data. A table called contact_form is created with five columns: id, name, email, phone, and message. The id column is an auto-incrementing integer that serves as the primary key for the table. The name, email, phone, and message columns store the form data submitted by the user. The created_at column is a timestamp that indicates when the form was submitted.

To test that the contact.php is working, one can submit a test message using the form on the contact.html page and check if the message is successfully sent to my email address for AlgomaU. One can also check the PHP error log to see if there are any errors related to the contact.php script. This code connects to the database, prepares an SQL statement to insert the form data into the contact_form table, binds the form data variables to the SQL statement, executes the statement, and then closes the database connection. Finally, it redirects the user to a success page. Also, a contact-success.html file has been created that the user will be redirected to after submitting the form.

Instructions to implement the code, prerequisites, including appropriate install procedures

The following are the steps one needs to follow in order to install and run the site:

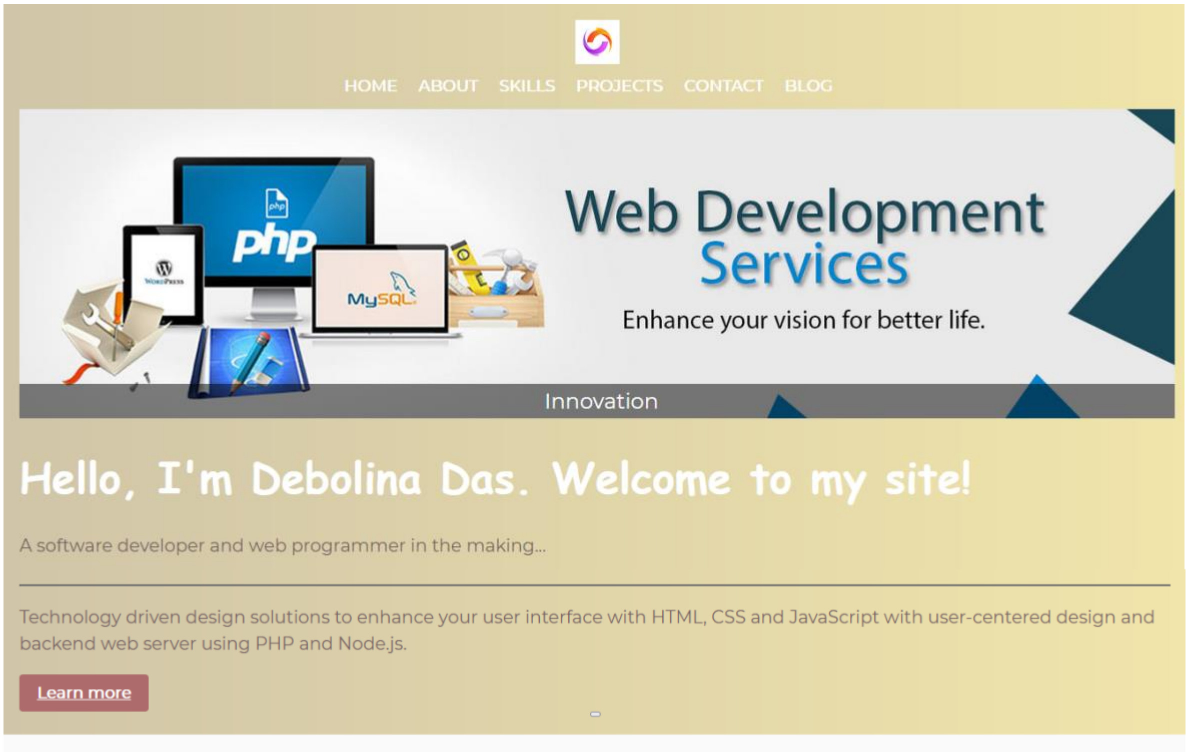
COSC 2956

Name: Debolina Das
Student ID: 219669550

Download the code from the repository and extract it to a folder on your computer.
Install XAMPP or another local server environment.
Move the extracted folder to the "htdocs" folder in XAMPP.
Start Apache and MySQL in XAMPP.
Open your web browser and navigate to "localhost/phpmyadmin".
Create a new database and import the included SQL file to populate it with sample data.
Edit the "config.php" file in the "includes" folder with your database credentials.

Since this code includes a basic HTML form with input fields for name, email, subject, and message, and a submit button. The form action is set to "submit-form.php", which means that the data from the form will be sent to the server-side script "submit-form.php" when the user clicks the submit button. The form action and the form handling code in "submit-form.php" has been written to match the server-side implementation.

Screenshots of the Website:



Web Development Services

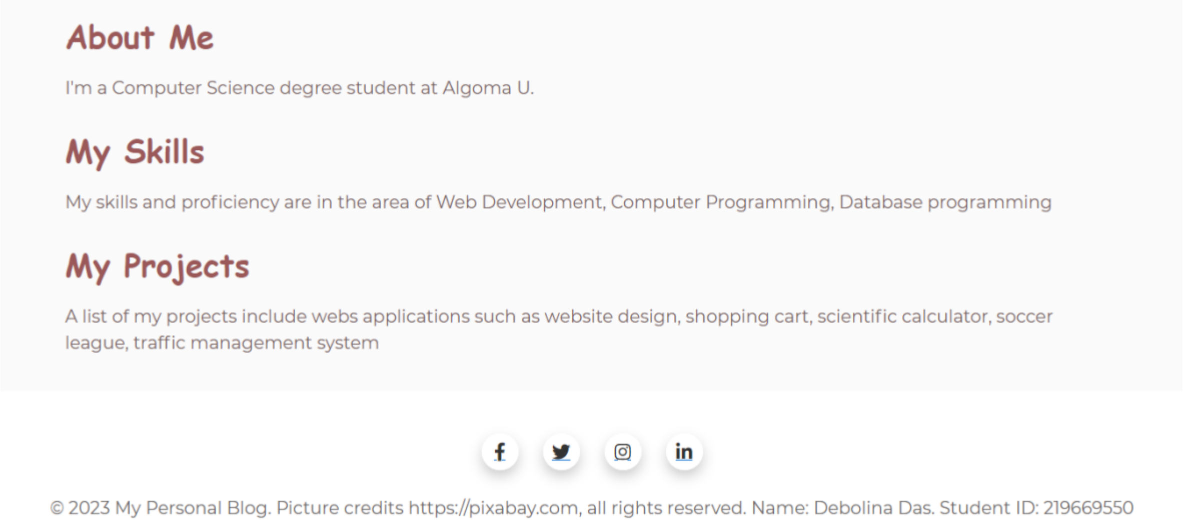
Enhance your vision for better life.

Innovation

Hello, I'm Debolina Das. Welcome to my site!

A software developer and web programmer in the making...

Technology driven design solutions to enhance your user interface with HTML, CSS and JavaScript with user-centered design and backend web server using PHP and Node.js.



About Me

I'm a Computer Science degree student at Algoma U.

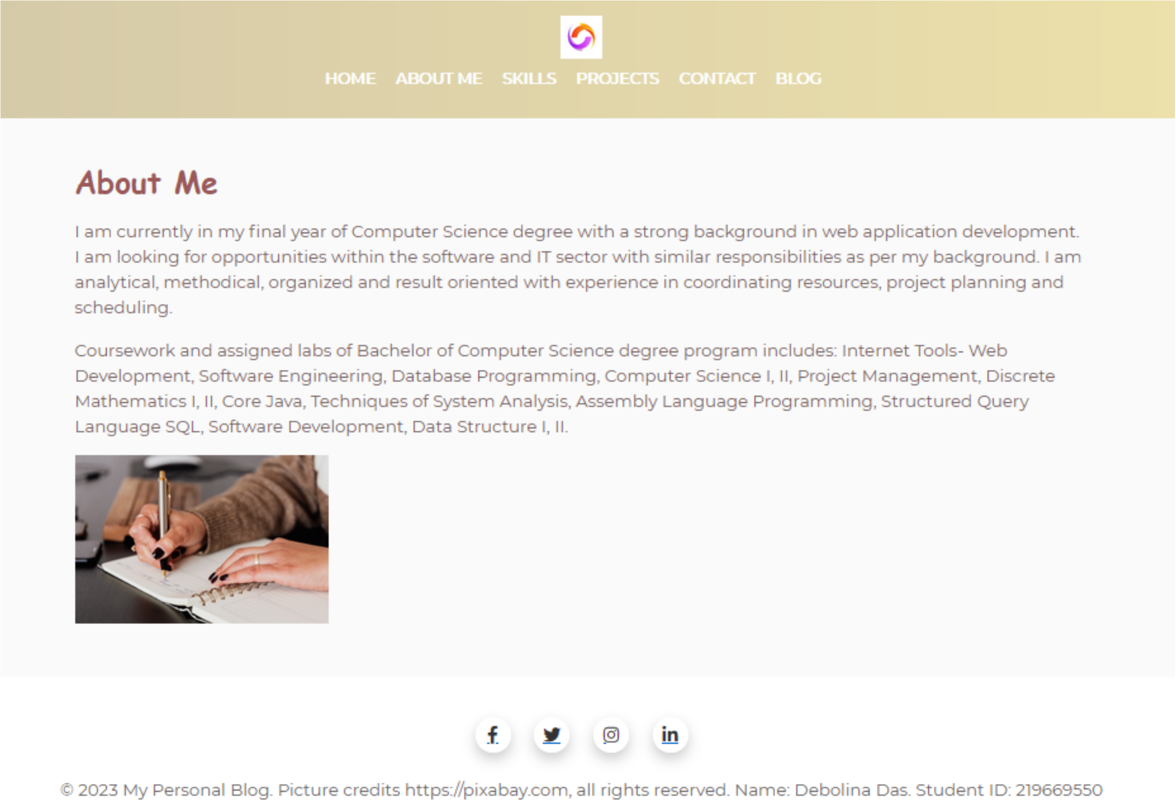
My Skills

My skills and proficiency are in the area of Web Development, Computer Programming, Database programming

My Projects

A list of my projects include webs applications such as website design, shopping cart, scientific calculator, soccer league, traffic management system

© 2023 My Personal Blog. Picture credits https://pixabay.com, all rights reserved. Name: Debolina Das. Student ID: 219669550

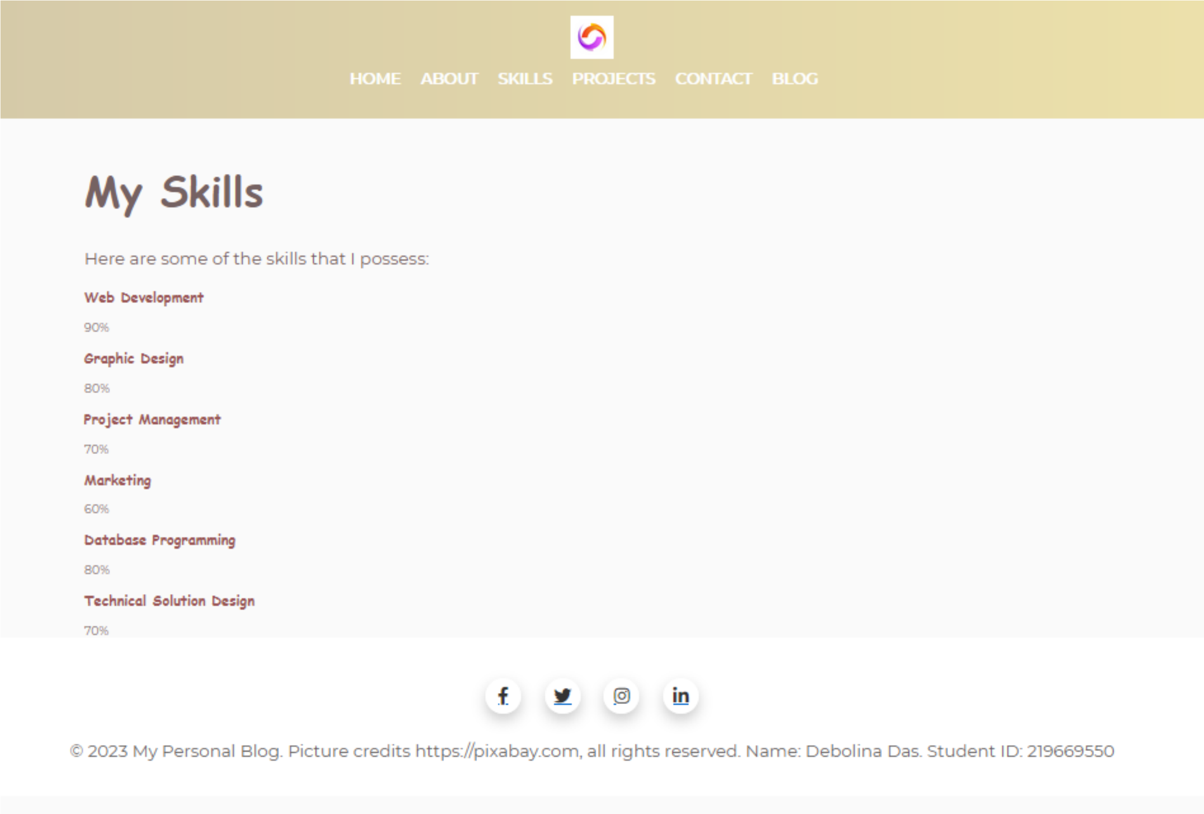


About Me

I am currently in my final year of Computer Science degree with a strong background in web application development. I am looking for opportunities within the software and IT sector with similar responsibilities as per my background. I am analytical, methodical, organized and result oriented with experience in coordinating resources, project planning and scheduling.

Coursework and assigned labs of Bachelor of Computer Science degree program includes: Internet Tools- Web Development, Software Engineering, Database Programming, Computer Science I, II, Project Management, Discrete Mathematics I, II, Core Java, Techniques of System Analysis, Assembly Language Programming, Structured Query Language SQL, Software Development, Data Structure I, II.

© 2023 My Personal Blog. Picture credits https://pixabay.com, all rights reserved. Name: Debolina Das. Student ID: 219669550



My Skills

Here are some of the skills that I possess:

Web Development

90%

Graphic Design

80%

Project Management

70%

Marketing

60%

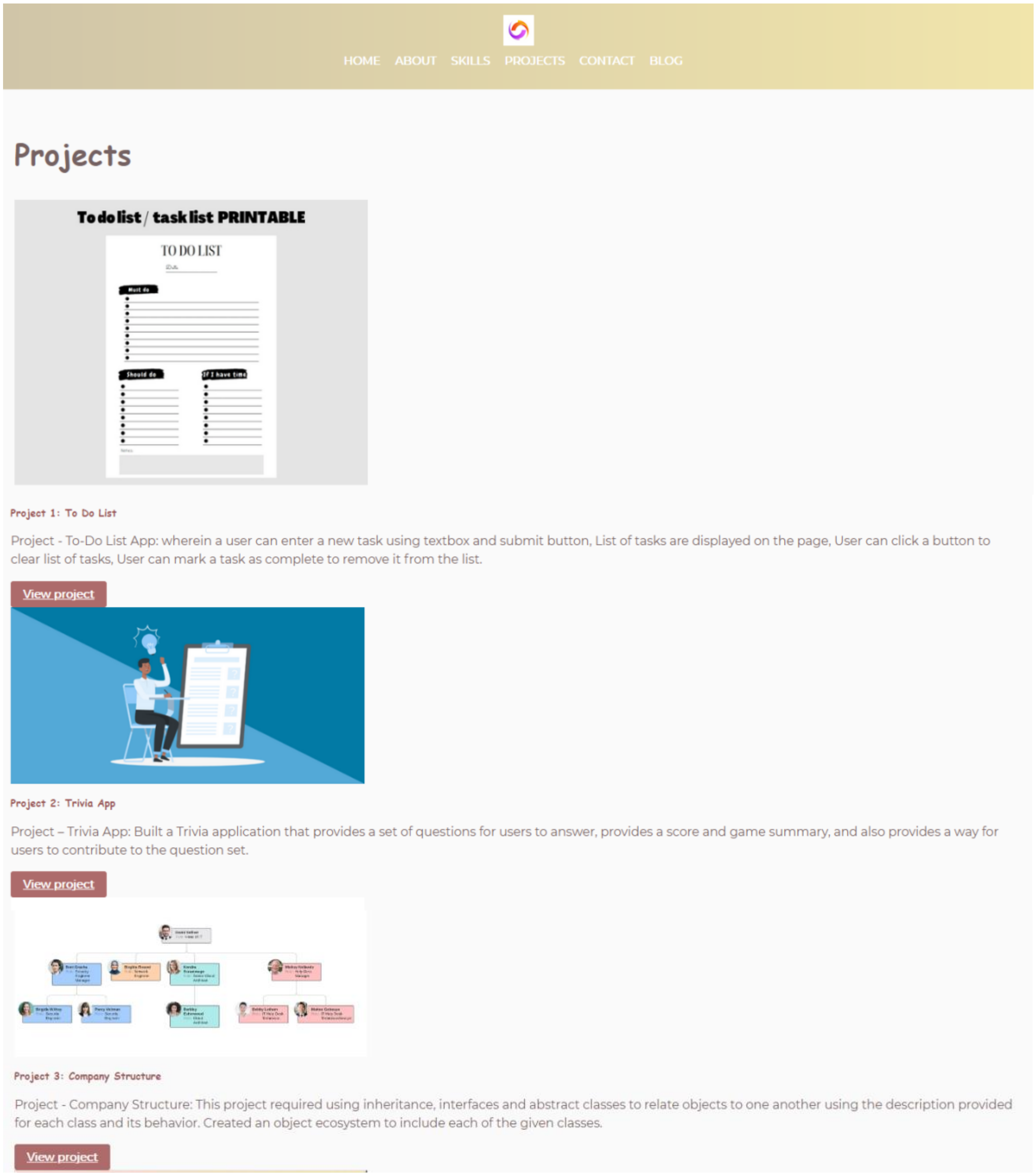
Database Programming

80%

Technical Solution Design

70%

© 2023 My Personal Blog. Picture credits https://pixabay.com, all rights reserved. Name: Debolina Das. Student ID: 219669550



Projects

Project 1: To Do List

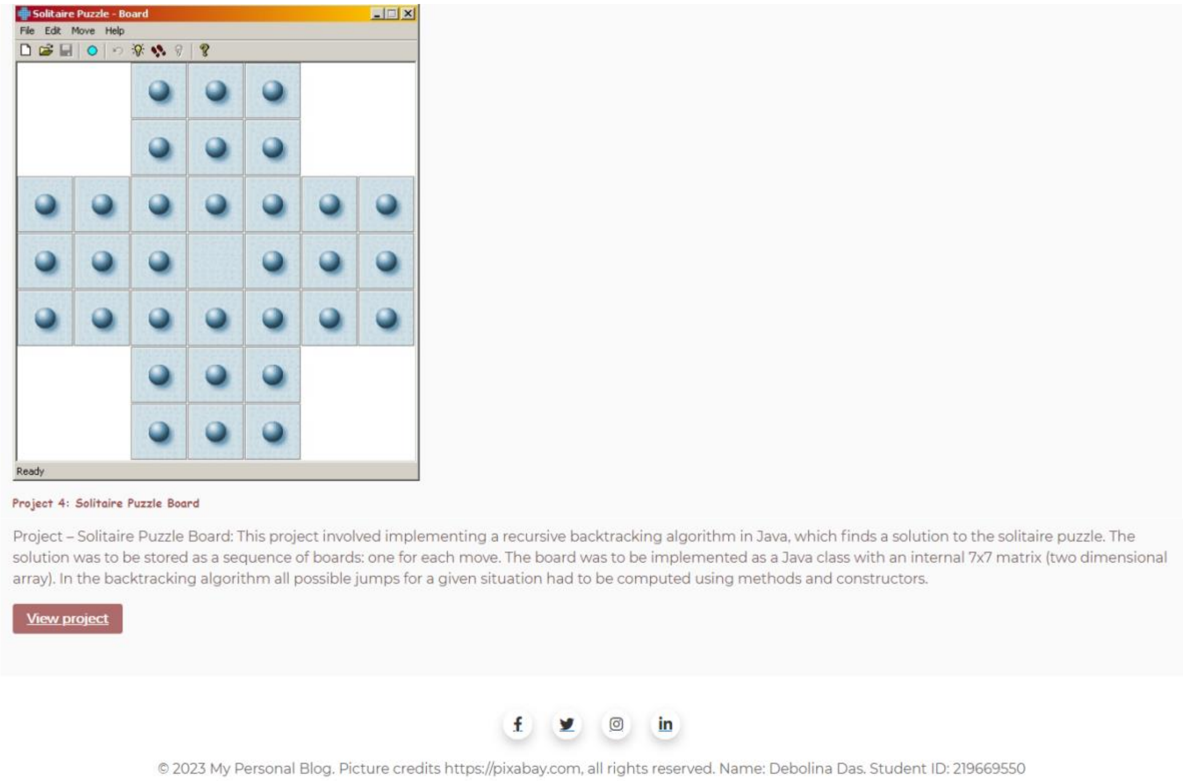
Project - To-Do List App: wherein a user can enter a new task using textbox and submit button, List of tasks are displayed on the page, User can click a button to clear list of tasks, User can mark a task as complete to remove it from the list.

Project 2: Trivia App

Project – Trivia App: Built a Trivia application that provides a set of questions for users to answer, provides a score and game summary, and also provides a way for users to contribute to the question set.

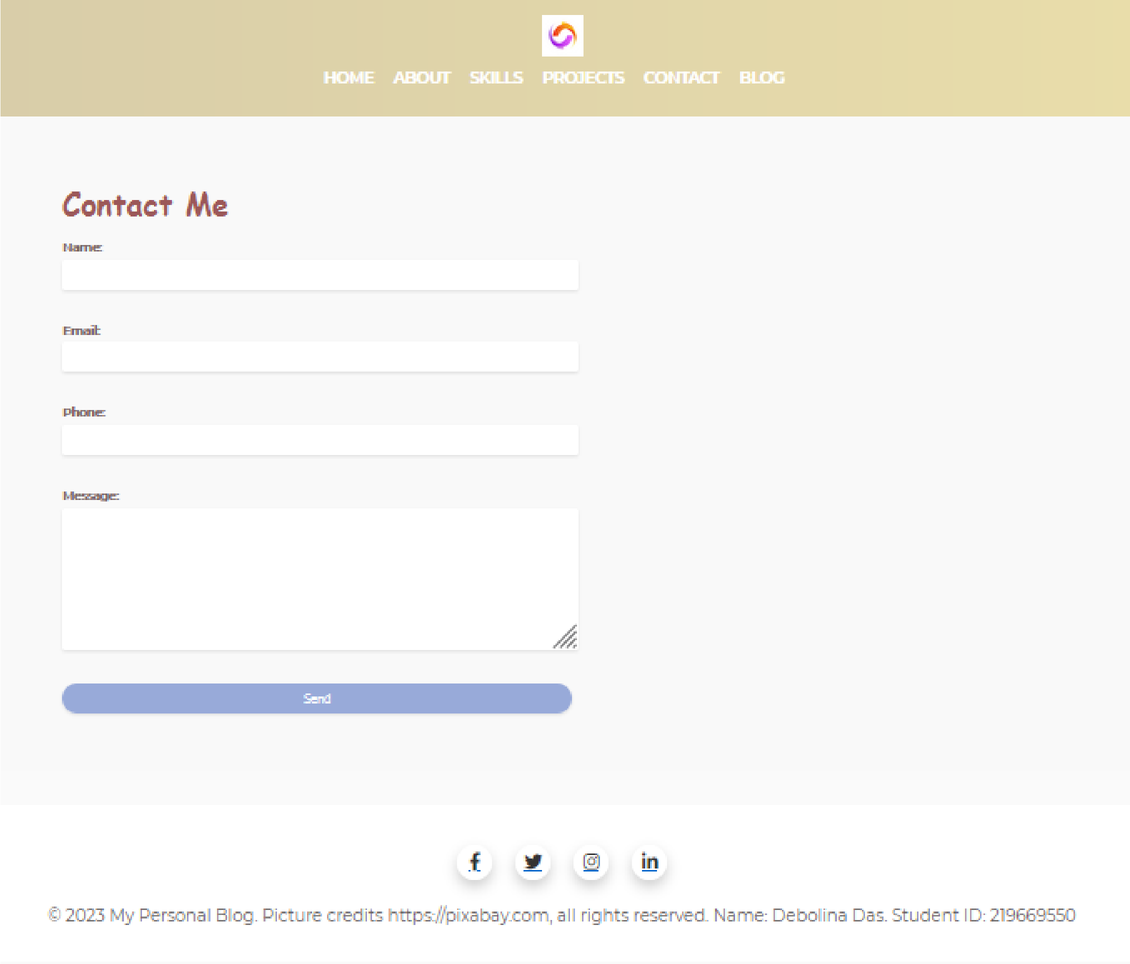
Project 3: Company Structure

Project - Company Structure: This project required using inheritance, interfaces and abstract classes to relate objects to one another using the description provided for each class and its behavior. Created an object ecosystem to include each of the given classes.



Project 4: Solitaire Puzzle Board

Project – Solitaire Puzzle Board: This project involved implementing a recursive backtracking algorithm in Java, which finds a solution to the solitaire puzzle. The solution was to be stored as a sequence of boards: one for each move. The board was to be implemented as a Java class with an internal 7x7 matrix (two dimensional array). In the backtracking algorithm all possible jumps for a given situation had to be computed using methods and constructors.



Contact Me

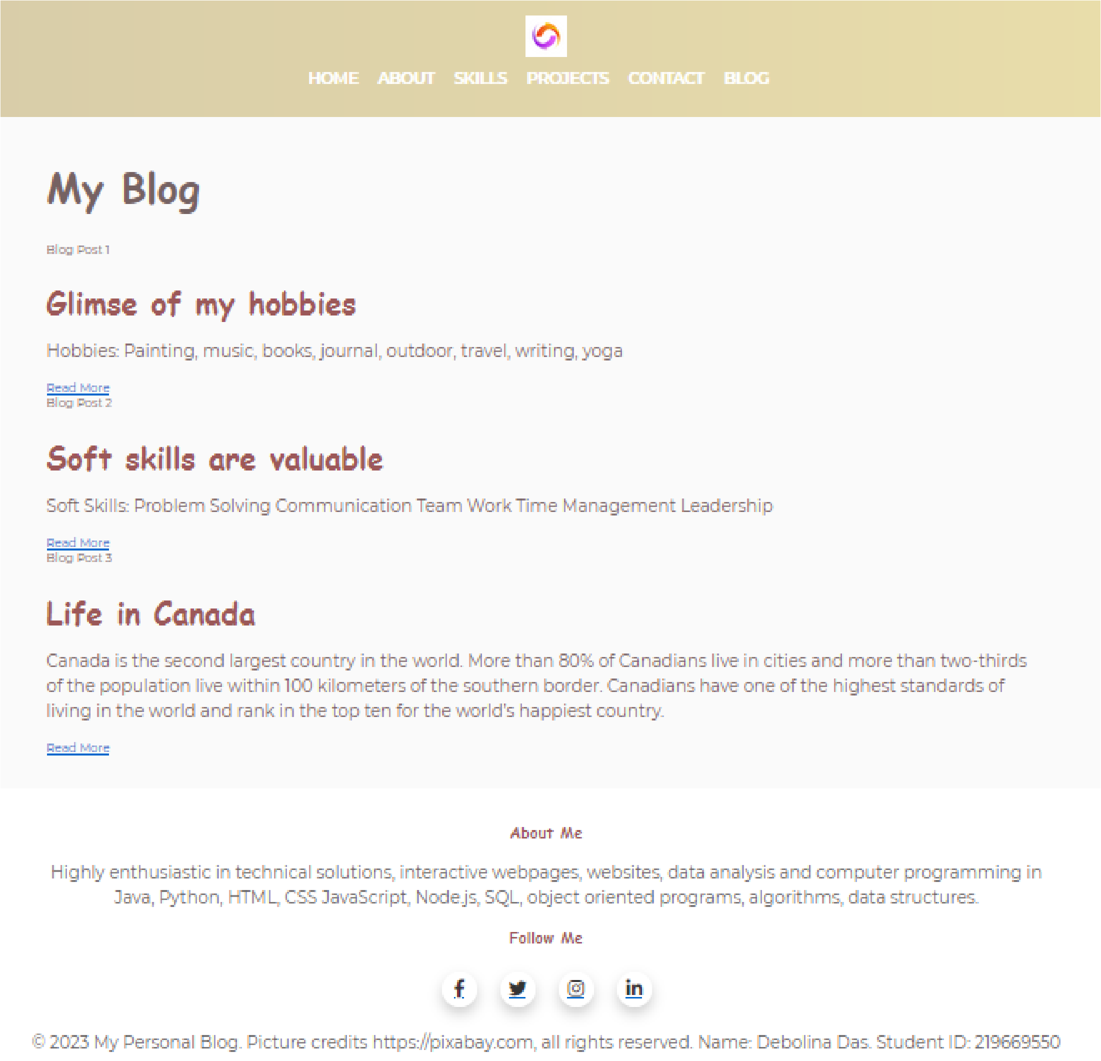
Name:

Email:

Phone:

Message:

© 2023 My Personal Blog. Picture credits https://pixabay.com, all rights reserved. Name: Debolina Das. Student ID: 219669550



My Blog

Blog Post 1

Glimse of my hobbies

Hobbies: Painting, music, books, journal, outdoor, travel, writing, yoga

Read More

Blog Post 2

Soft skills are valuable

Soft Skills: Problem Solving Communication Team Work Time Management Leadership

Read More

Blog Post 3

Life in Canada

Canada is the second largest country in the world. More than 80% of Canadians live in cities and more than two-thirds of the population live within 100 kilometers of the southern border. Canadians have one of the highest standards of living in the world and rank in the top ten for the world's happiest country.

Read More

About Me

Highly enthusiastic in technical solutions, interactive webpages, websites, data analysis and computer programming in Java, Python, HTML, CSS JavaScript, Node.js, SQL, object oriented programs, algorithms, data structures.

Follow Me

f 🐦 ◎ in

© 2023 My Personal Blog. Picture credits https://pixabay.com, all rights reserved. Name: Debolina Das. Student ID: 219669550