

# **Computer Science & Engineering Association**

## **NoobaThon 2023**

### **Problem Statement 1**

## **Portfolio website**

#### **Preface**

Transport is a pivotal means to connect far off places and provide goods that would otherwise be inaccessible. With the booming e-commerce comes an equal demand for shipping companies.

You have to design a portfolio for a shipment company to display all that is offered by your company and attract customers.

#### **Task Objective**

Design the front end for a portfolio website of a shipment company. It should include the following features-

- Home page should display all the major services provided (Ex- postal, courier, fast post, Fragile item shipment etc)
- Each service should have its own description(containing suitable items to send), terms and conditions of the service as well as standard rates.
- FAQs page
- Contact page to have easy access to contact information
- A map to show service providers present at different locations all over India

#### **Brownie Points Task**

- Responsive website
- Animated number counter to show customer count, orders shipped and other details

## **Problem Statement 2**

# **Laundry Management System**

### **Preface**

NITW is a residential campus filled with 100's of students far from their home. With busy college schedules and long lists of assignments, it becomes hard to manage the household activities, laundry being one of them. NITW has a very distorted laundry system, where there are many different laundry workers, working in an unorganized system. This leads to a lot of problems including low quality work, unreasonable prices, and misplaced clothes.

To make the life of NITW students hustle free you are asked to design a platform that would tackle all these problems and create an organized laundry system for both students and the workers.

### **Task Objective**

Design a website that digitalizes the laundry management system in NITW. A website would be a one stop solution for the students looking for a laundry service. The website should include the following features-

- Students should be able to login into the website.
- A service search should be there that would list the type of wash student requires.
- There should be an option to book service on a particular date and time along with specifications on the number of clothes and their details.
- The students can track when they are to receive their laundered clothes
- Students should be able to give reviews for the services provided to them.

### **Brownie Points Task**

- Responsive Website
- Attractive dashboard to show monthly expenses
- Intuitive UI design
- Choice among various service providers as well as easy comparison of service rates, ratings, service time and other factors.

## Problem Statement 3

# E-COMMERCE WEBSITE

### **Preface:**

It is a well-known fact that online shopping has brought a revolution to the industry and made everyone's lives easier. Customers can choose from thousands of products from the comfort of their own homes, without any hassle. Moreover, they can make informed purchasing decisions based on other customers' reviews. Therefore, the objective of this problem statement is to design a frontend ecommerce website that sells a variety of products.

### **Task Objective:**

The ecommerce website must have the following features:

- Customer login page
- Product details of every item being sold, including images, price, ratings, brand name, sizes available, and colors available
- Customers can add and remove items from their cart
- Customers should navigate to a payment page after clicking on the Buy button
- A navigation bar for easy navigation
- Pagination, allowing users to use links such as "next," "previous," and page numbers to navigate between pages that display one page of results at a time

### **Brownie Points Tasks:**

For additional points, you can also include the following features:

- A responsive website that adapts to different screen sizes
- A rating and comment section for products, allowing customers to share their feedback
- A featured product section, highlighting top-selling or trending products
- A timer for any shopping sales on the website
- A My Orders page, allowing customers to keep track of previous orders and their status.

### **Conclusion:**

In conclusion, the challenge is to design a fully functional ecommerce website with a user-friendly interface, providing customers with all the necessary details and options to make informed decisions. By implementing the above features, you can create a unique and engaging online shopping experience for your customers.

## **Problem Statement 4**

# **Schedule Management System**

### **Preface**

Students have a lot of exams and assignments, and are often confused or forgetful of the dates. Keeping this in mind, you decide to come up with a website just for 1st year CSE students. This will help students easily get every important date regarding their academics and avoid confusion. (Keep in mind that all three sections for CSE can have different exam and assignment dates).

### **Task Objective**

Design a front-end of a website that shows the students when the due date of an assignment is or when there is an exam scheduled. It must include -

- Links to textbooks, youtube channels and other kinds of study material for every subject on each page
- Number of credits and the faculty name for each section for a particular subject should be displayed
- Timetable of all sections should be displayed
- There should also be a search option for section (A,B,C,All) and subject (PSCP,AP,EFA,LACDE,ETC,AP,ALL) to display the important academic dates

### **Brownie Points Task**

- Responsive website
- Color coding different subjects
- Different views available for schedule, example- weekly, daily, agenda
- Home page to show a summarized view of imminent deadlines and upcoming schedule

## **Problem Statement 5**

# **Fitness Web-App**

### **Preface**

Fitness plays an important role in our lives. With the onset of several lifestyle diseases, it has become crucial to remain fit and constantly keep track of one's health, eating habits and exercise.

Towards that end, you are required to create a fitness tracking app with the necessary functionalities.

### **Task Objective**

Design the front end for a fitness tracking and web-app which promotes healthy habits, including metrics you are using to track the user's health as well as features promoting healthy habits -

- A calorie tracker(based on the meals input by the user)
- Steps walked per day and a visual representation of weekly step count
- A selection of exercises along with required instructions(textual or visual)
- Home page includes user's personal fitness goals and their progress

### **Brownie Points Task**

- In-built timer for exercises
- Setting up a community feature
- a health-based news feed
- An attractive congratulations message when daily goals are met

## Problem Statement 6

### BanquetEase

**Preface:** Our town lacks a dynamic online function hall booking website that caters to the needs of the residents while also providing a seamless user experience and additional features to enhance their booking experience. We aim to create a website that displays a list of 5-10 banquet halls in Warangal and on choosing a specific hall, it shows additional details such as images, capacity, budget, location, available dates and other useful information.

**Task Objective:** The objective of this hackathon is to design and develop a dynamic online function hall booking website that meets the needs of the residents of Warangal. The website should have the following features:

- A list of 5-10 banquet halls in Warangal, and when a user selects a specific hall, it should display more details such as images, capacity, budget, location, random available dates, and other useful information.
- Recent 5 reviews and ratings and overall rating.
- A responsive design that works seamlessly on desktop and mobile devices for maximum accessibility.
- Users should be able to sort the halls based on budget and capacity
- A search bar that allows users to search for a particular hall based on its name.

**Brownie Points Task:** For additional points, you can include the following features:

- An interactive floor plan that allows users to visualize the layout of the function hall and choose their seating arrangements.
- An online booking and payment system that allows users to book their desired function hall and make payments online.
- A virtual tour of each function hall to provide users with a 360-degree view of the space.
- Integration with social media platforms to allow users to share their booking details and reviews with their friends and family.

**Conclusion:** In conclusion, the challenge is to design a dynamic online function hall booking website that caters to the needs of the residents of Warangal. By implementing the above features, you can create a unique and engaging online booking experience that provides users with all the necessary details and options to make informed decisions. With a seamless user

experience, your website can become the go-to platform for all function hall bookings in Warangal.

## Problem Statement 7

### EventWeb Prodigy

**Preface:** The task at hand is to create a static website for an upcoming event using HTML, CSS, and JavaScript. The aim of this website is to provide event information and display details of upcoming event and its sub-events.

**Task Objective:** The objective of this problem statement is to design and develop a static website for an upcoming event. The website should include the following features:

- Display information about the event and its sub-events (around 10) in an organized and visually appealing manner.
- Creative website design that grabs the attention of potential attendees and keeps them interested.
- Links to other relevant event websites if any.

**Brownie Points Task:** For additional points, you can include the following feature:

- A search bar that allows users to search for a specific sub-event.

**Conclusion:** In conclusion, the challenge is to design a static website that effectively showcases the upcoming event and its sub-events using HTML, CSS, and JavaScript. By implementing the above features, you can create an engaging and visually appealing website that generates interest and attracts potential attendees. With a user-friendly interface and easy navigation, your website can become the go-to platform for all event-related information.



## **Problem Statement 8**

### **Cooking Companion**

**Preface:** Cooking can be a fun and creative activity, but it can also be daunting for beginners. Many people struggle with finding recipes that match their preferences and skill level. To address this issue, we aim to create a user-friendly and personalized recipe website that offers detailed recipe instructions and additional features to enhance users' cooking experience.

#### **Task Objective:**

- To create a website that offers at least 10 recipes with detailed instructions, ingredient lists, and nutritional information.
- The website should include a timer feature to help users keep track of cooking times and allow them to customize the timer based on their preferences.
- In addition, users should be able to rate and review recipes, and the website should include social media sharing buttons.
- The website should also offer a search bar to search for specific recipes, recipe categories and tags to help users easily find recipes that match their preferences.

#### **Functionality:**

- Detailed recipe instructions with ingredient list and nutritional information
- Timer feature to help users keep track of cooking times
- Rating and review system for each recipe
- Social media sharing buttons for each recipe
- Search bar to search for specific recipes
- Recipe categories and tags to help users easily find recipes that match their preferences

#### **Brownie Points Task:**

- Video tutorials for each recipe
- Save and print feature to allow users to save or print recipes
- Integration with grocery delivery services to help users purchase ingredients
- Personalized recommendations based on user preferences and previous searches
- Interactive step-by-step instructions with images and videos to help beginners learn cooking techniques

## **Problem Statement 9**

### **Pet Portal**

**Preface:** Pet adoption agencies play a crucial role in helping animals find their forever homes. Our client, a pet adoption agency, is looking to create a frontend website that showcases different types of pets, provides information about pet adoption, and helps visitors find their perfect furry companion.

#### **Task Objective:**

Design a frontend website that displays information about various types of pets. The website should also provide detailed profiles of pets that are available for adoption, including their name, breed, age, gender, and any other relevant information. Additionally, the website should include a section for pet-related articles, tips, and advice.

#### **Functionality:**

- Display a variety of pet profiles that are available for adoption, along with their images, name, breed, age, gender, and other relevant information.
- Allow users to filter available pets by type, breed, age, and gender to find pets that match their preferences.
- Create a section that provides information about the adoption process, including adoption fees, requirements, and procedures.
- Add a section for pet-related articles, tips, and advice, such as pet care and training.
- Provide a contact form for potential pet owners to get in touch with the adoption agency and ask any questions they may have.

#### **Brownie Points Task:**

- Include a "Meet Our Team" section that showcases the staff members and volunteers who work at the adoption agency.
- Implement a "Success Stories" section that features stories and pictures of pets that were adopted through the agency.
- Include a calendar of upcoming adoption events to encourage visitors to attend adoption events and meet pets that could be adopted in person.

## Problem Statement 10

# Online Food Delivery Platform

**Preface:** Whether it is a lazy sunday afternoon, a rushed day at work or a house party with friends, online food delivery has become an inevitable part of our lives. Customers are always in the search for a platform which makes this task easy, affordable and provides the best user experience. Hence the aim of this problem statement is to create a web application for a fictional food delivery platform.

**Task Objective:** A responsive food delivery platform using intermediate-level HTML, CSS, and JavaScript, with a focus on the UI. The website should have at least four pages : a home page, restaurant list page, menu page, checkout page.

### Functionality:

- In the home page, include a hero section with a search bar that allows users to search for restaurants or cuisine types. The hero section should have an eye-catching design, with subtle animation or parallax effects.
- The restaurant list page should display all the available restaurants, with the ability to filter by cuisine type, rating, or distance.
- In the menu page, users should be able to browse the restaurant's menu items, with the ability to add items to their cart and adjust the quantity.
- The checkout page should display the user's cart items and total cost, with the ability to enter their delivery address and payment information.

### Brownie Points Task:

- Implement responsive design for optimal viewing experience on different devices.
- Use Google Maps API to display the user's location and nearby restaurants.
- Allow users to leave ratings and reviews for restaurants.
- Use local storage or cookies to save users' cart items if they leave the site and come back later.
- Include social media sharing buttons for menu items or restaurants.
- Use session storage or cookies to save users' delivery address if they leave the checkout page and come back later.

**Note:** Participants will be judged based on creativity, design, functionality, and adherence to the intermediate-level requirements. **You need not implement all functionality. Focus more on getting the UI right.**

