ITC Web Convener Application Assignment

Objective

The objective of this assignment is to evaluate your problem-solving skills, ability to learn new concepts, and enthusiasm for web development and design.

We assume you have little to no prior experience in these fields, so you are expected to learn and apply new concepts as you progress through the assignment.

For additional guidance, refer to the resources: ITC Convener Resources

Important Evaluation Note:

- We value the growth and learning you achieve throughout this assignment over your existing knowledge.

- Applicants who start from scratch and build even a simple website will be preferred over those who already possess basic skills and only completed one task.

- Demonstrate your understanding of each detail in your submission.

- Use of any AI/LLM/GPT is allowed, provided you can fully explain your work.

You may choose to attempt either the Designer profile or the Developer profile or both based on your interests and strengths.

Profile 1: Designer

Task 1: Figma Design for ITC Website

Create a comprehensive design for a multi-page, interactive ITC website using Figma. Your design should include the following pages:

- **Home:** An introduction to ITC and its purpose.

- **About:** A section describing ITC's mission, goals, and activities.

- **Events:** A showcase of past and upcoming events organized by ITC.

- **Contact:** A page with a form for visitors to submit their name, email, and a message.

Design Requirements:

- Focus on strong UI/UX principles: use consistent fonts, spacing, and color schemes.

- Incorporate smooth animations and transitions where appropriate.

- Ensure your design is responsive (consider how it will look on desktop, tablet, and mobile devices).

- Provide clear annotations or a brief documentation outlining your design decisions and any interactions.

Task 2: Convert One Figma Page to a Static Website

Select one of your Figma-designed pages and convert it into a static website using HTML, CSS, and JavaScript (no frameworks required). This task is meant to assess your basic web development skills and your ability to translate design into code.

Requirements:

- The page should be fully responsive.

- Keep the implementation simple but maintain fidelity to your design.

- Document your code with comments explaining your structure and styling choices

- (Optional) Deploy the static page using GitHub Pages, Netlify, or Vercel.

Task 3: Create an Instagram Post for the Website Launch

Design an Instagram post to announce the launch of the ITC website. This should be a visually engaging image (or series of images) that captures the essence of ITC and the website's features.

Requirements:

- Ensure the post aligns with the branding and style of your ITC website design.

- You may use any design tool (e.g., Figma, Adobe XD, Canva) to create the post.

- Provide a brief description (up to 100 words) explaining the concept behind your post.

Submission Guidelines

1. **Figma Design:** Share a well-organized Figma link for the complete ITC website design (Home, About, Events, Contact) with annotations.

2. **Static Page:** Provide the URL of one deployed static page (GitHub Pages, Netlify, or Vercel). If not deployed, showcase your site in a clear documentation and share the GitHub repo link.

3. **Instagram Post:** Submit the Instagram post as an image (PNG/JPEG) or a shareable link, with a short concept explanation (up to 100 words).

4. **Documentation:** Include a single PDF summarizing your design process and choices

Deadline: Thursday, 10th April 2024, 11:59 PM

Good luck!

Profile 2: Developer

Task 1: UI/UX & ITC Website Development (HTML, CSS, JavaScript)

Build a multi-page, interactive website for ITC with the following sections:

- **Home:** An introduction to ITC and its purpose.

- **About:** A section describing ITC's mission, goals, and activities.

- **Events:** A showcase of past and upcoming events organized by ITC.

- **Contact:** A simple form for visitors to submit their name, email, and a message.

Requirements:

- Use HTML, CSS, and JavaScript (you may use frameworks if you're comfortable, but it is not required).

- Ensure the website is fully responsive.

- Follow best practices for UI/UX (consistent fonts, spacing, and color scheme).

- Implement smooth animations and dynamic content where necessary.

- Deploy the website using GitHub Pages, Netlify, or Vercel.

- Provide clear documentation explaining your code and structure.

Task 2: Frontend Framework Evaluation

Build a Task Manager App using React, Vue, or any other frontend framework.

Requirements:

- Users should be able to add, edit, and delete tasks.

- Persist tasks using localStorage so that data remains after refreshing.

- The UI should be modern, clean, and responsive.

Bonus: Implement a dark mode toggle.

Task 3: Backend Skills Evaluation

Create a REST API using Node.js and Express (or any backend framework of your choice) with the following functionalities:

Requirements:

- **Create a new note:** Accept a title, content, and timestamp.

- **Retrieve all notes:** Provide an endpoint to fetch all notes.

- **Delete a note:** Delete a note by its ID.

- Use an SQLite, PostgreSQL, or MongoDB database to store the data.

Bonus: Implement authentication using JWT or session-based authentication.

Task 4: Integration Challenge (Bonus for Full-Stack Applicants)

If you have completed both the Task Manager App and the Notes API, integrate them by:

Requirements:

- Creating a frontend UI to manage notes via your backend API.

- Ensuring smooth API calls and proper error handling.

- Deploying both the frontend and backend using platforms like Vercel/Netlify and Render/Heroku.

Evaluation Criteria

- **Effort & Learning Curve:** Your ability to research and implement new concepts.

- **Code Quality / Design Quality:** Proper structure, clean and well-commented code or design files.

- **Presentation:** Overall visual design, usability, and creativity of the website/app or design assets.

- **Git Usage(most imp.):** Proper commit messages and repository structure.

- **Bonus Points:** Completing multiple sections and adding extra features.

Submission Guidelines

- Submit your GitHub repository link(s) and deployed website/API link(s) along with a documentation PDF that explains your process, design choices, and any challenges you encountered.

- Ensure you attempt as many sections as possible.

- **Deadline:** Thursday, 10th April 2024, 11:59 PM

Good luck!