

Frontend Development Tasks & Instructions — CodeAlpha

Frontend Development — Internship Overview

This internship program provides hands-on experience in DevOps practices and tools to streamline software development and deployment. CodeAlpha is a leading software development company focused on automation, continuous integration, and scalable infrastructure. The internship empowers students to work with CI/CD pipelines, containerization tools like Docker and Kubernetes, infrastructure as code, and cloud services. Interns will gain practical skills in monitoring, automation, and collaboration between development and operations teams, with expert guidance and real-world projects.

Internship Perks

- Internship Offer Letter
 - Completion Certificate (QR Verified)
 - Unique ID Certificate
 - Letter of Recommendation (based on performance)
 - Job Opportunities / Placement Support
 - Resume Building Support
-

Instructions for Interns

1. Share your internship status on **LinkedIn**, tagging **@CodeAlpha**.
 2. Complete the **assigned projects** within the mentioned time frame.
 3. Upload your complete source code to **GitHub** in a repository named:
`CodeAlpha_ProjectName`
 4. Post a **video explanation** of your project on LinkedIn with GitHub repo link.
 5. Submit your completed task using the **Submission Form**.
 6. **Complete any 3 or 2 out of the 4 tasks** listed below (from your domain).
-

Frontend Development Task List

(Complete any 2 or 3 of the following tasks)

TASK 1: Image Gallery

- Design an **image gallery** using **HTML** and **CSS** layout.
 - Use **JavaScript** for navigation (next/prev buttons, lightbox view).
 - Add hover effects and smooth transitions.
 - Ensure **responsive design** for different screen sizes.
 - Bonus: Add image filters or categories.
-

✓ TASK 2: Build a Calculator

- Create a **basic calculator** using HTML, CSS, and JavaScript.
 - Include all **arithmetic operations**: +, -, ×, ÷.
 - Design a user interface with **buttons and display screen**.
 - Handle user input, clearing screen, and real-time result display.
 - Bonus: Add keyboard support and styling enhancements.
-

✓ TASK 3: Build Your Own Portfolio Site

- Design a **personal portfolio** using HTML, CSS and optional JS.
 - Showcase your **skills, projects, resume and contact info**.
 - Use a clean, responsive layout with sections for About, Projects, etc.
 - Add smooth scroll, animations and hover effects.
 - Bonus: Deploy it on **GitHub Pages** or **Netlify**.
-

✓ TASK 4: Music Player using JavaScript

- Create a **music player interface** using HTML & styled with CSS.
 - Use **JavaScript** for audio control (play, pause, next, previous).
 - Add functionality for showing **song title, artist, duration**.
 - Include a **progress bar** and **volume control**.
 - Bonus: Add playlist and autoplay features.
-



Important Note

Internship Completion Criteria:

To be eligible for the internship certificate, participants must complete a minimum of **two or three tasks**. Submitting only one task will be considered **incomplete** and certificates will **not** be issued in such cases.



Submission Details

A submission form will be shared in your respective **WhatsApp group**. You are required to submit your completed task only through that form. Please follow the instructions mentioned in the form carefully to ensure your submission is accepted.



Contact Information

- Website: www.codealpha.tech
- WhatsApp: [+91 8052293611](https://wa.me/918052293611)
- Email: services@codealpha.tech