

DC InfoTech Pvt Ltd - Web Development Internship Task Plan

Objective:

The solutions will be evaluated based on usability, scalability, and innovation.

Problem Statements & Tasks

Task 1: Client Feedback Management Portal

Objective: Build a web-based portal to collect, analyze, and manage customer feedback for DC InfoTech Pvt Ltd's products and services.

- **Features Required:**
 - User authentication (admin and clients).
 - Feedback submission forms with categories and priorities.
 - Analytics dashboard to visualize feedback trends.
 - Export feedback as PDF or Excel.
 - **Technologies Recommended:**
 - Frontend: React.js, TailwindCSS
 - Backend: Node.js, Express.js
 - Database: MongoDB or MySQL
 - Hosting: Firebase or Google Cloud
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Task 2: Internal Task Management System

Objective: Create a task assignment and tracking system for internal employees.

- **Features Required:**
 - Task assignment by managers to employees.
 - Notifications for new tasks via email.
 - Task completion status tracking.
 - Calendar integration for task deadlines.
 - **Technologies Recommended:**
 - Frontend: Angular or Vue.js
 - Backend: Python (Flask/Django) or GoLang
 - Database: PostgreSQL
 - Hosting: AWS or DigitalOcean
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Task 3: Real-Time Sales Metrics Dashboard

Objective: Design a web application to monitor real-time sales and revenue data for DC InfoTech Pvt Ltd.

- **Features Required:**
 - Data fetching and visualization using APIs.
 - Dynamic charts and graphs for KPIs like total sales, revenue growth, and product performance.
 - Multi-user access with different privilege levels (viewer, editor).
 - **Technologies Recommended:**
 - Frontend: Svelte or React.js with D3.js
 - Backend: Node.js or Ruby on Rails
 - Database: Firebase Realtime Database
 - Hosting: Google App Engine
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Task 4: Employee Training & Knowledge Base Platform

Objective: Develop an internal web portal for employees to access training materials and company policies.

- **Features Required:**
 - Login system with role-based access (HR, employees).
 - Upload and view documents (PPTs, PDFs).
 - Search and filter options for quick access.
 - Feedback system for employees to suggest improvements.
 - **Technologies Recommended:**
 - Frontend: Bootstrap with Vanilla JS or React
 - Backend: PHP (Laravel) or .NET Core
 - Database: SQLite or MariaDB
 - Hosting: Microsoft Azure
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Task 5: Real-Time Chat Application

- **Objective:** Create a real-time chat application for internal communication within the company.
- **Features Required:**
 - User authentication for employees.
 - Real-time messaging (text, images, files).
 - Group chat functionality and private messages.
 - Chat history and search functionality.
 - Admin panel for user management (ban, promote, etc.).
- **Technologies Recommended:**
 - Frontend: React.js with Socket.io
 - Backend: Node.js with Express.js
 - Database: MongoDB or MySQL
 - Hosting: AWS or Google Cloud

Task 6: Learning Management System (LMS)

Objective: Develop a web-based Learning Management System to manage and deliver training materials, track employee progress, and handle certifications.

Features Required:

- 1. User Authentication:**
 - Admin and student login systems.
 - Role-based access (Admin, Instructor, Student).
- 2. Course Management:**
 - Admins can create courses, upload course materials (videos, PDFs, PPTs).
 - Categorize courses based on topics.
 - Ability to update course details (e.g., name, description, materials).
- 3. Course Enrollment:**
 - Students can browse courses and enroll.
 - Ability to view course details before enrolling.
- 4. Progress Tracking:**
 - Track student progress (e.g., modules completed, quizzes passed).
 - Admins and instructors can view student progress reports.
- 5. Quizzes & Assignments:**
 - Create quizzes and assignments for students.
 - Auto-grading system for quizzes.
 - Assignment submission system where students can upload their work.
- 6. Certificate Generation:**
 - Students receive certificates on course completion.
 - Certificate generation (PDF) after passing the course.
- 7. Discussion Forums:**
 - Students can interact with instructors and peers via forum posts.
 - Ability to post questions, answer others' questions, and discuss course material.
- 8. Notifications:**
 - Students get notifications for new courses, updates, and deadlines.

- Admins and instructors get notifications about new enrollments and submissions.
- 9. Admin Dashboard:**
- Manage courses, students, progress reports, and enrollments.
 - Monitor student activities and feedback.
- 10. Search & Filter:**
- Students can search for courses by category, difficulty level, and rating.
 - Filters for sorting courses (e.g., most popular, newest, highest rated).

Technologies Recommended:

- Frontend: React.js or Vue.js
- Backend: Node.js with Express.js or Python (Django/Flask)
- Database: MongoDB or PostgreSQL
- Authentication: JWT (JSON Web Tokens) or OAuth for secure user login
- File Storage: Cloud storage for course materials (e.g., AWS S3, Google Cloud Storage)
- Hosting: AWS, Google Cloud, or DigitalOcean

Submission & Evaluation

- **Submission Process:**

- Interns will submit their work through an online form shared at the end of the internship.
- Deliverables must include:
 1. Hosted project URL or GitHub repository.
 2. Documentation of features and implementation.
 3. Video walkthrough/demo of the solution.

- **Evaluation Criteria:**

- Functionality: Does the solution meet requirements?
- Scalability: Can the application handle real-world usage?
- Innovation: Creative problem-solving approaches
- UI/UX: Ease of use and design quality.

Support Available:

- Interns can email queries to DC InfoTech Pvt Ltd employees.
- Guidance can also be sought from mentors or employees on LinkedIn.

After completing each task, remember to fill out the [Internship Completion Form](#) .You can submit this form one by one or all at once—whichever works best for you. However, please ensure that all submissions are made before the end of your three-month internship, as this will be considered during your evaluation.

Summary Timeline Overview:

- **Month 1:** Task 1 (2 weeks), Task 2 (1 week), Task 3 (1 week)
- **Month 2:** Task 4 (2 weeks), Task 5 (1 week), Task 6 - Part 1 (1 week)
- **Month 3:** Task 6 - Part 2 (2 weeks), Final Review & Bug Fixes (2 weeks)