

TaskCrowd

Synopsis Submitted By:

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In

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Introduction :

TaskCrowd is a web-based microtasking platform designed to connect businesses (requesters) with a distributed workforce (workers) who complete small tasks for monetary rewards. The platform streamlines job posting, task submission, and payment processing, making it an efficient and scalable solution for crowdsourcing tasks such as data labeling, surveys, content moderation, and more.

Statement of the Problem :

Many businesses require human intelligence to complete repetitive tasks that AI cannot handle efficiently, such as sentiment analysis, data annotation, and content moderation. However, hiring full-time employees for such work is costly and inefficient. At the same time, many individuals seek flexible, online earning opportunities. TaskCrowd bridges this gap by providing a secure, efficient, and scalable microtasking platform for both requesters and workers.

Objectives :

The primary objectives of TaskCrowd are:

- To provide a user-friendly interface for businesses to post tasks and for workers to complete them efficiently.
- To automate task distribution and approval processes, ensuring fair and timely payments.
- To offer a secure and verified worker database, reducing spam and fraudulent submissions.
- To support multiple task types, such as surveys, content categorization, and image labeling.
- To ensure transparency in worker payments and requester budgets.

Scope :

TaskCrowd is designed for businesses, researchers, and startups that require human intelligence for data-driven tasks. It is also beneficial for freelancers, students, and part-time workers looking for online earning opportunities. The platform can be used in fields like AI training, academic research, marketing analysis, and content moderation.

Main Modules :

1. Admin Panel

Manages user registrations, payments, and dispute resolutions.

Monitors platform performance and fraud detection.

2. Requester Module

Task Creation & Management: Businesses can post tasks with requirements, deadlines, and payments.

Task Approval System: Review and approve worker submissions.

Budget & Payment System: Manage task funding and worker payments.

3. Worker Module

Task Marketplace: Workers browse available tasks and apply for them.

Task Submission: Workers complete and submit tasks with proof.

Earnings & Payouts: Workers track earnings and withdraw funds.

4. Payment System

Secure Deposits & Payouts: Integrates with UPI, PayPal, Razorpay, Stripe.

Transaction History: Allows users to track financial transactions.

5. Rating & Review System

Requesters and workers rate each other to maintain quality standards.

Process Description :

1. User Registration & Authentication

Workers and requesters sign up with email or social login.

KYC Verification for secure transactions and fraud prevention.

2. Task Creation & Submission

Requesters post tasks with descriptions, deadlines, and pricing.

Workers pick tasks, complete them, and submit results.

3. Task Review & Approval

Requesters approve or reject submissions based on quality.

Workers receive ratings and payments based on approval.

4. Payment Processing

Requesters deposit funds to pay for completed tasks.

Workers withdraw earnings via bank transfer, UPI, or PayPal.

Hardware Requirements :

- Personal Computer or Laptop
- Internet Connection

Software Requirements :

- Frontend: HTML, CSS, JavaScript, Bootstrap
- Backend: Node.js, or Python (Django/Flask)
- Database: MySQL, MongoDB
- Payment Gateway: Razorpay / Stripe / PayPal
- Hosting: AWS, Firebase, or DigitalOcean
- Development Tools: Visual Studio Code

Advantages :

- ✓ Provides online earning opportunities for freelancers and students.
- ✓ Enables businesses to outsource repetitive tasks efficiently.
- ✓ Automates payments and ensures transparency in transactions.
- ✓ Supports multiple industries, including AI, marketing, and research.

Conclusion :

TaskCrowd is a scalable, secure, and efficient crowdsourcing platform that revolutionizes how businesses distribute microtasks. By providing seamless task allocation, automated payments, and fraud prevention, it offers a win-win solution for businesses seeking affordable labor and individuals looking for flexible online work.