Task Instructions and Assignment Tasks

Dear Candidate,

We have reviewed your email and resume, and we're glad to move forward with your application. You are now invited to complete the following assignment.

Please read the instructions carefully and complete the task as per the guidelines. If you have any questions, feel free to reach out to Manasa at +91 8328418240 between 9:30 AM and 7:30 PM.

Timeline

The assignment must be completed within **4–6 days** from the date of receiving this task.

Submission Format

Please send the following two PDFs via **email** and **WhatsApp**:

PDF 1:
Filename: Your File Name
Include:

- Full Name

- Phone Number

- Date of Birth

- Educational Details (Degree, Branch, College/University, Year)

- GitHub Repository Link (complete event project)

- Screenshots of the UI/output inside the GitHub repo (under a /screenshots folder)

- **Availability (Working Days & Hours)**

- **Preferred Time for Interview**
  Mention Morning / Evening 2 preferred time slots for a virtual/phone interview

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PDF 2:
Filename: YourName_Resume
Include:
Your updated resume in PDF format.

What You Will Gain from This Internship

This internship is your **gateway to real-world tech experience**. As an **Intern** at **IPAGE UM Services Pvt Ltd**, you'll solve actual problems, ship real code, and contribute to live websites used by drone professionals, students, and government bodies.

Real-Time Project Exposure

You will work on live production platforms such as:

1. **www.dronetv.in**

   o   A media platform for drone news, events, and interviews.

   o   Interns contribute to backend dashboards, dynamic video feeds, and event sections.

2. **www.indiadroneacademy.com**

   o   Platform for DGCA drone pilot training and simulator modules.

   o   You'll work on React components, AWS Lambda functions, and backend form handling.

3. **www.dronesimulator.pro**

   o   A simulator platform used by RPTOs and drone trainees.

   o   Interns will contribute to dashboards, analytics, logs, and Lambda-based logic.

4. **www.ipageums.com**

   o   The official site showcasing GIS, drone, and AI solutions.

   o   Involves form APIs, image handling via S3, and backend automation.

Career-Building Benefits

1. **Live Deployment Skills**
   Learn how to deploy real code to production using AWS (Lambda, S3, EC2), version control, and continuous deployment.

2. **AI + Automation Tools**
   Exposure to platforms like **n8n** and intelligent workflows — great for resumes and future automation roles.

3. **Full MERN Stack Practice**
   Build end-to-end modules using React, Node.js, MongoDB, and AWS Lambda. Understand real production stacks.

4. **Portfolio Power**
   Showcase real URLs in your portfolio — not just sample projects.

5. **Mentorship & Upskilling**
   Work with senior developers on architecture, performance tuning, and best practices in full-stack development.

6. **Certification & Career Growth**
   Receive a certificate and performance review. Top performers may get pre-placement offers or extended freelance roles.

Where to Send

- **Email:** hr@ipageums.com

- **WhatsApp:** +91 8804349999

Important Notes

- Do not attach screenshots separately in the email. They must be part of the GitHub repository.

- Ensure both PDFs are named clearly with your full name.

- Code should be **clean, structured, and well-documented**.

React Developer Skill Assessment 1

Objective:

Test the applicant's ability to build a basic yet complete React frontend that fetches, displays, filters, and manages property listings with a user-friendly UI.

Project Overview:

Build a React app that fetches a list of properties from a dummy API, displays them, allows filtering, includes a modal to view details, and adds a form to create a new property.

What You'll Build:

1. Property Listings Page

• Fetch properties from a mock GET API endpoint.

• Display each property in a card layout with title, type, location, price, and short description.

• Allow filtering by property type.

• Include a search bar filter by name or location.

2. Add Property Form

• Include fields for Name, Type, Price, Location, and Description.

• On submission, send the data to a POST API endpoint.

• After successful POST, fetch updated data using GET and update the list dynamically.

3. View Details Modal

• On clicking 'View', open a modal showing full property details and an image.

• Optionally embed Google Maps based on coordinates.

API Setup (Required):

Use json-server / MockAPI / Express backend with the following endpoints:

• GET /api/properties — to fetch all property listings.

• POST /api/properties — to add a new property to the list.

User Flow:

1. App loads and fetches property list using GET.

2. Properties are displayed as cards.

3. User filters/searches or adds a new property.

4. New property is sent via POST API and list is updated.

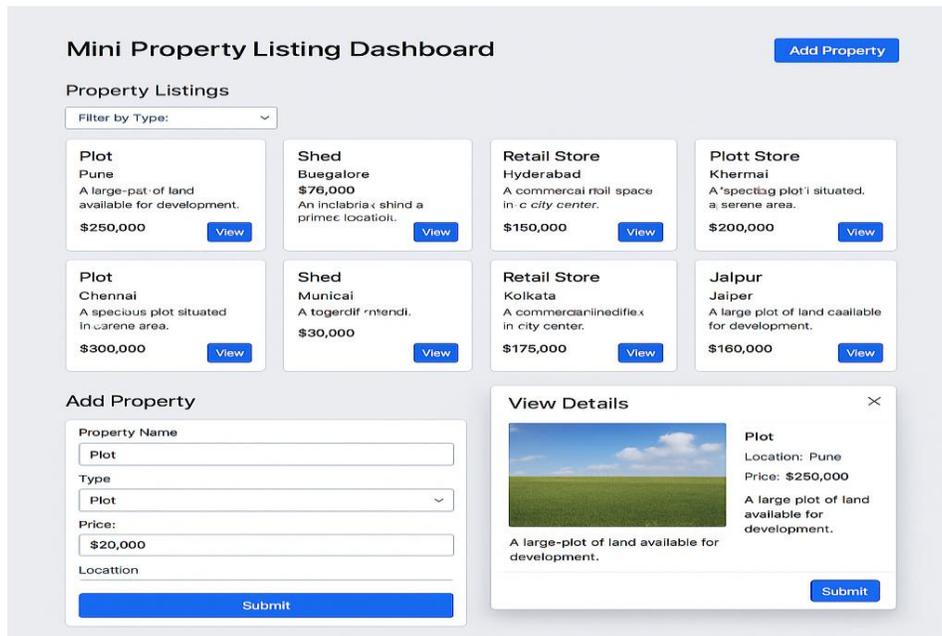5. Clicking 'View' opens a modal with full details.

What to Submit:

• GitHub link or ZIP of the project.

• Screenshots of the UI: listing page, form, and modal.

• (Optional) Live preview link (e.g., Netlify or Vercel).

Expected Time:

4–6 days.

Sample UI Reference

The following screenshot is a sample layout for the property listing dashboard. You are free to improve or redesign using your own creativity.

React Developer Skill Assessment 2

Objective

Build a React app where users:
1. Select a template
2. Fill a multi-section form
3. See their profile as a card
4. View a dynamic portfolio page generated using selected template

Project Overview:

Build a dynamic portfolio generator using React where users can select a template, fill out a detailed form, and generate a professional profile. Submitted data should display as a profile card, and on click, open a full portfolio page rendered with the chosen design template.

What You'll Build

1. Template Selection

Display two portfolio templates for users to choose before filling the form.

2. Portfolio Form (Fields per Section)

Hero Section: Name, Title, Tagline, Profile Image
About Me: Bio, Email, Phone, Location, Socials
Skills: List of skills/tags
Services: 3 Services – Title & Description
Portfolio: 3 Projects – Title, Image, Description
Testimonials: 1–3 Client Quotes
Blog: Title, Summary (optional)
Contact: Message Text, Email, Phone

3. Professionals List Page

After form submission, show a profile card with image, name, role, bio, skills, and a 'View Portfolio' button.

4. Portfolio Page (/portfolio/:id)

On card click, render the selected template filled with user data using the following sections:
<HeroSection />, <AboutMe />, <Skills />, <Services />, <Portfolio />, <Testimonials />, <Blog />, <Contact />, <Footer />

5.Features

Add Edit Profile
Add Filter by Skills or Role

Dynamic API-Based Implementation

• Use POST API to store form-submitted portfolio data.
• Use GET API to fetch data dynamically and render it on the listing and portfolio pages.
• Avoid using static or local-only state. All content should reflect real-time API responses.

What to Submit

GitHub link or ZIP
Screenshots
Optional: Live preview link

Instruction to Candidate

Build a dynamic portfolio app with these features:
1. Select from 2 templates
2. Fill a multi-section form
3. Display a profile card
4. View full portfolio using the selected template

Expected Time: 4-6 days
Submit: GitHub repo or ZIP with screenshots. Optional: Live URL.

Sample UI Reference

The following screenshots are sample layouts.

Choose Your Template

Select a professional template that best represents your style and customize
it to your needs

Template 1

Modern and clean design with yellow hero section and
professional layout

Key Features:
- Yellow Hero Section
- Grid Portfolio
- Testimonials Carousel
- Contact Form

Customize This Template →   👁 Preview

Template 2

Split-screen layout with timeline skills and masonry portfolio
grid

Key Features:
- Split Hero Layout
- Timeline Skills
- Masonry Portfolio
- Blog Section

Customize This Template →   👁 Preview

Basic Details   Header & Hero   About Section   Services   Products   Clients & Testimonials   Contact

Footer

Basic Company Details

Your company name (used in URL)

Your Name

John Doe

Email

you@example.com

Phone Number

+91 9876543210

Emma Foster
Age: 26

Flight Instructor

⌖ Miami, FL

★★★★ 4.8

Certified flight instructor providing comprehensive drone pilot training..

4 years	95
Experience	Projects

Pilot Training Safety Protocols +1

✉ Contact

Jennifer Park
Age: 28

Software Engineer

⌖ Denver, CO

★★★★ 4.6

Full-stack developer creating innovative drone control and...

5 years	120
Experience	Projects

Web Development Mobile Apps

+1

✉ Contact

Kevin Brown
Age: 34

Software Engineer

⌖ Seattle, WA

★★★★ 4.7

Backend engineer building scalable drone fleet management and...

8 years	160
Experience	Projects

Backend Development

Cloud Architecture +1

✉ Contact

Lisa Wang
Age: 30

AI Specialist

⌖ San Francisco, CA

★★★★ 4.8

AI engineer developing autonomous navigation systems for commercial...

7 years	110
Experience	Projects

Autonomous Systems Path Planning

+1

✉ Contact

DroneTV

Home About Skills Services Gallery Contact

Email:
sumit@indiadroneacademy.com

Phone:
+91-9580120509

Location:
Hyderabad, Telangana

Sumit Krishnan

11+ Years Experience

My Skills

Drone Training
RPAS Instructor (DGCA)	98%
Ground School & Simulators	95%
Practical Flying Sessions	92%

Aerospace Expertise
Flight Dynamics & Stability	93%
CFD & Wind Tunnel Testing	91%
Curriculum Development	90%

Professional Skills
Technical Writing & Research	94%
Public Speaking & Presentations	89%
Conference & Event Management	88%

Certifications & Achievements

DGCA RPAS Instructor
Medium & Small Class Certified

Published Author
"Fundamentals of Propulsion" & 7 Research Papers

Conference Organizer
ICASAS – 2019, Aeronautics & Safety

My Services

Specialized drone and aerospace training programs tailored for individuals, institutions, and researchers — led by a DGCA-Certified RPAS Instructor with over 11 years of experience in aviation education.

Drone Pilot Training
Comprehensive RPAS training programs for aspiring drone pilots at India Drone Academy.

- Ground School Modules
- Simulator-Based Learning
- Rotorcraft Flight Sessions
- DGCA Certification Support

Aerospace Education
Aviation-focused instruction in core aerospace disciplines from fundamentals to applied projects.

- Flight Dynamics
- Aircraft Performance
- Stability & Control
- UAV Design Guidance

Research & Technical Writing
Authoring support, curriculum building, and academic research consulting in aerospace and drones.

- 7 Published Papers
- Book: Fundamentals of Propulsion
- Conference Papers
- Academic Review Guidance

Workshops & Event Management
End-to-end support for aerospace & UAV educational events, including ICASAS-style conferences.

- Technical Presentations
- Faculty Training
- Event Planning
- Professional Speaking Engagements

Photo Gallery