internStudio

FULL STACK DEVELOPMENT INTERNSHIP

TASK GUIDE

Own the entire stack. Frontend, backend and everything in between.

SIX ADVANCED PROJECTS — CHOOSE ANY TWO

01 **Real-Time Support Ticket & Helpdesk System**

02 **Multi-Tenant SaaS Analytics Dashboard**

03 **Restaurant Reservation & Table Management System**

04 **Peer-to-Peer Service Marketplace**

05 **Online Learning Platform with Progress Tracking**

06 **Social Content Scheduling & Analytics Tool**

INTERNSHIP	REQUIRED TASKS	FOCUS
Full Stack Development	Complete any 2 projects	Frontend · Backend · Databases · APIs · Deployment

INTERNSHIP INSTRUCTIONS

Your Internship Tasks

Select and complete **any 2 projects** from the task list, taking full ownership of the frontend, backend and database for each — not just one layer of the stack.

Plan	Design	Build	Integrate	Test	Deploy

EVERY PROJECT SHOULD INCLUDE

- [ ] A frontend, backend and database working together
- [ ] User authentication where relevant
- [ ] A well-structured REST or GraphQL API
- [ ] Sensible data modeling and relationships
- [ ] Input validation on both client and server
- [ ] Responsive, usable UI
- [ ] Environment-based configuration
- [ ] A clear README explaining the architecture

BEFORE YOU SUBMIT

- [ ] Complete any 2 projects from the list
- [ ] Push the project to GitHub
- [ ] Deploy the full application live
- [ ] Add a README with setup instructions
- [ ] Add screenshots of the working app
- [ ] Submit details via the submission form
- [ ] Share your work on LinkedIn as required

> **Suggested technologies:** Any frontend framework (React/Vue/Angular) · any backend framework (Node/Express, Django, Spring Boot) · a database (PostgreSQL/MySQL/MongoDB).

Submit your completed work here

Once both projects are deployed end to end and pushed to GitHub, submit your project details through the official submission form.

https://forms.gle/vxL5JE8cvRXXfDBv8

> **A note on quality.** "Full stack" means you can explain every layer — why the schema looks the way it does, why the API is shaped that way, and why the UI makes the tradeoffs it does.

01 Real-Time Support Ticket & Helpdesk System

Build a helpdesk where customers raise tickets and support agents resolve them against SLA targets.

REQUIREMENTS

- Customer and agent accounts with roles
- Real-time status updates and comments
- Canned response templates
- Search and filtering across tickets
- Ticket creation with priority and category
- SLA countdown and breach flagging
- Agent workload dashboard
- Email or in-app notifications

Focus: Role-based full-stack architecture, real-time updates and operational business logic.

02 Multi-Tenant SaaS Analytics Dashboard

Build a SaaS-style dashboard where multiple organizations track their own usage metrics, isolated from one another.

REQUIREMENTS

- Organization-based multi-tenancy
- Usage metrics ingestion and aggregation
- Billing-tier gating of features
- Admin view across the organization's users
- User invites and roles per organization
- Interactive charts and trend views
- Data export (CSV)
- Responsive design

Focus: Multi-tenant data isolation, aggregation logic and a real SaaS-shaped architecture.

03 Restaurant Reservation & Table Management System

Build a system where diners reserve tables online and staff manage seating and orders from a live floor view.

REQUIREMENTS

- Diner-facing reservation flow
- Staff floor-plan view with table status
- Reservation confirmation and reminders
- Reporting on table turnover
- Real-time table availability
- Order taking linked to a table
- Conflict prevention for double-booking
- Responsive design for tablets

Focus: Two-sided real-time application, concurrency-safe booking and operational UI.

04 Peer-to-Peer Service Marketplace

Build a marketplace where people offer services (tutoring, repairs, freelance work) and others browse, bid and hire.

REQUIREMENTS

- Provider and client accounts
- Bidding or quote-request flow
- Booking and payment (test mode)
- Search and location-based filtering
- Service listings with categories
- In-app messaging between parties
- Reviews and ratings after completion
- Dispute or cancellation handling

Focus: Two-sided marketplace logic, messaging, payments and trust mechanisms (reviews).

05 Online Learning Platform with Progress Tracking

Build a platform where instructors publish structured courses and students enroll and track their progress.

REQUIREMENTS

- Instructor and student accounts
- Student enrollment and progress tracking
- Certificate generation on completion
- Instructor dashboard with enrollment stats
- Course authoring with modules and lessons
- Quiz or assessment support
- Search and filtering across courses
- Responsive design

Focus: Structured content modeling, progress tracking and a real two-role application.

06 Social Content Scheduling & Analytics Tool

Build a tool that lets users draft posts, schedule them across platforms, and review basic performance analytics.

REQUIREMENTS

- User authentication
- Scheduling with a calendar view
- Basic performance analytics per post
- Search and filtering by status
- Post drafting with media attachments
- Background job to "publish" at the scheduled time
- Multiple accounts / brands per user
- Responsive design

Focus: Scheduled background jobs, calendar UX and analytics aggregation.

FINAL STEP

Ready to Submit?

Verify everything below before you send your work in.

SUBMISSION

- [ ] GitHub repository
- [ ] README explaining the architecture
- [ ] Live deployment link
- [ ] Screenshots included
- [ ] Submission form completed
- [ ] LinkedIn post where required

DATA

- [ ] Database schema is sensible
- [ ] Relationships modeled correctly
- [ ] Data persists correctly across sessions

FRONTEND

- [ ] UI is functional and responsive
- [ ] Client-side validation in place
- [ ] Loading and error states handled

BACKEND

- [ ] API is well-structured and documented
- [ ] Server-side validation in place
- [ ] Errors return clear responses

Important. Complete any 2 projects. Each should demonstrate real ownership of every layer — frontend, backend and database — not just the part you find easiest.

Submission Form

Submit your repository, live link and screenshots here.

https://forms.gle/vxL5JE8cvRXXfDBv8

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