

# Frontend Developer Intern - Assignment

## Overview

This assignment evaluates your frontend development skills, attention to detail, and ability to implement designs accurately. You'll be building a desktop web interface based on the provided Figma design.

[Figma Design](#)

[Figma Prototype](#)

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## Task Requirements

### What to Build

Implement the complete design from the Figma file with pixel-perfect accuracy for **desktop screens only**. The design should be:

- **Pixel-perfect** matching the Figma specifications
- **Interactive** with smooth transitions and hover states
- **Accessible** following WCAG 2.1 guidelines

### Technical Stack

#### Required:

- React (with TypeScript preferred)
- Tailwind CSS
- Modern ES6+ JavaScript

#### Optional (Bonus Points):

- Next.js for framework
  - Framer Motion for animations
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## Evaluation Criteria

Your submission will be evaluated on:

- Design Accuracy
  - Code Quality
  - Performance
  - Best Practices
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## Submission Guidelines

### What to Submit

#### 1. GitHub Repository

- Public repository with complete source code
- Clear folder structure
- All assets included

#### 2. Live Demo

- Deploy on Vercel, Netlify, or similar platform
- Provide working URL

#### 3. Documentation

- README.md with:
    - Setup instructions
    - Tech stack used
    - Key features implemented
    - Any assumptions made
    - Time spent on the assignment
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## How to Submit

#### 1. Create GitHub Repository

- Initialize with proper .gitignore
- Make regular commits showing your progress

#### 2. Deploy Your Application

- Deploy to Vercel (recommended) or Netlify
- Ensure all features work in production

### 3. Submit Your Work

- Email the following to: [YOUR\_EMAIL]
  - GitHub repository URL
  - Live demo URL
  - Your resume (PDF)
  - Brief cover letter (optional)

**Subject Line:** Frontend Intern Application - [Your Name]

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## Timeline

- **Assignment Duration:** 2 days from receipt
  - **Interview Notification:** Within 3-5 business days
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**Good luck! We're excited to see what you build! 🚀**

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# Backend Intern Assignment - Organization Management Service

## Objective

Build a backend service using any backend framework of your choice preferably a Python framework (Django/FastAPI) that supports creating and managing organizations in a multi-tenant style architecture. It is preferred to use MongoDB as a database.

The system should maintain a **Master Database** for global metadata and create **dynamic collections** for each organization.

Your task is to design and implement the required REST APIs and authentication flow.

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## Functional Requirements

### 1. Create Organization

Endpoint: `POST /org/create`

Input:

- `organization_name`
- `email` (admin email)
- `password` (admin password)

Expected Behavior:

- Validate that the organization name does not already exist.
  - Dynamically create a **new Mongo collection** specifically for the organization.  
Example collection name pattern: `org_<organization_name>`.
  - Create an **admin user** associated with that organization.
  - Store the following in the **Master Database**:
    - Organization name
    - Organization collection name
    - Connection details (if required)
    - Admin user reference
  - Return a success response with basic organization metadata.
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## 2. Get Organization by Name

Endpoint: GET /org/get

Input:

- organization\_name

Expected Behavior:

- Fetch and return the organization details stored in the Master Database.
  - If the organization does not exist, return an appropriate error.
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## 3. Update Organization

Endpoint: PUT /org/update

Input:

- organization\_name
- email (admin email)
- password (admin password)

Expected Behavior:

- Validate that the organization name does not already exist.
  - Dynamically handle the **new collection creation** specifically for the organization and sync the existing data to the new Table/Collection.
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## 4. Delete Organization

Endpoint: DELETE /org/delete

Input:

- organization\_name

Expected Behavior:

- Allow deletion for respective authenticated user only
  - Handle deletion of the relevant collections of this organization
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## 5. Admin Login

Endpoint: `POST /admin/login`

Input:

- `email`
- `password`

Expected Behavior:

- Validate the admin credentials.
  - On success, return a **JWT token** containing:
    - Admin identification
    - Organization identifier/ID
  - On failure, return an unauthorized error.
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## Technical Requirements

### A. Master Database

Should store:

- Organization metadata
- Connection details for each dynamic database
- Admin user credentials (securely hashed)

### B. Dynamic Collection Creation

When an organization is created:

- Programmatically create a new Mongo collection for that organization.
- The collection can be empty or initialized with a basic schema (optional but good to have).

### C. Authentication

- Implement admin login using JWT.
  - Passwords must be hashed (e.g., bcrypt).
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## Additional questions

Do you think this is a good architecture with a scalable design? What can be the trade-offs with the tech stack and design choices? Please feel free to explain briefly if you can design something better. We would love to hear that.

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## Submission Guidelines

Candidates should submit:

- GitHub repository link
  - Modular and clean design - Preferably Class based
  - Instructions to run the application in [README.md](#)
  - A high level diagram of the project
  - Brief notes explaining the design choices (optional, but appreciated)
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