

CSIS 228 PROJECT PROPOSAL

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Section 1

Vibrand Studios Project Management Web Application

Project Proposal

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This is a draft

Subject to change based on client requirements

1. Project Overview and Expected Outcome

Introduction

This proposal outlines the development of a comprehensive project management web application for [Vibrand Studios](#), a graphic and web design company. The system aims to streamline project workflows, enhance client communication, and improve overall operational efficiency.

Vision

The Vibrand Studios Project Management System will be a web application with a responsive website that serves as a central hub for managing clients, projects, employees, and services. It will facilitate seamless communication between the studio and its clients while providing tools for project tracking, resource allocation, and performance analysis.

Expected Outcomes

The completed web application will:

1. **5Centralize Information Management:** Provide a single source of truth for all client, project, and employee data.
2. **Enhance Client Communication:** Offer a secure web portal where clients can access their projects, provide feedback, and track progress.

3. **Streamline Workflow:** Automate routine tasks and provide clear visibility into project statuses and deadlines.
4. **Improve Resource Allocation:** Enable better planning and assignment of employees to projects based on skills and availability.
5. **Facilitate Decision Making:** Generate reports and analytics to inform business decisions and strategy.

The web application will have internal-facing components (for Vibrand Studios staff), client-facing components (for clients to track and interact with their projects) and a public view for the website.

Key Features

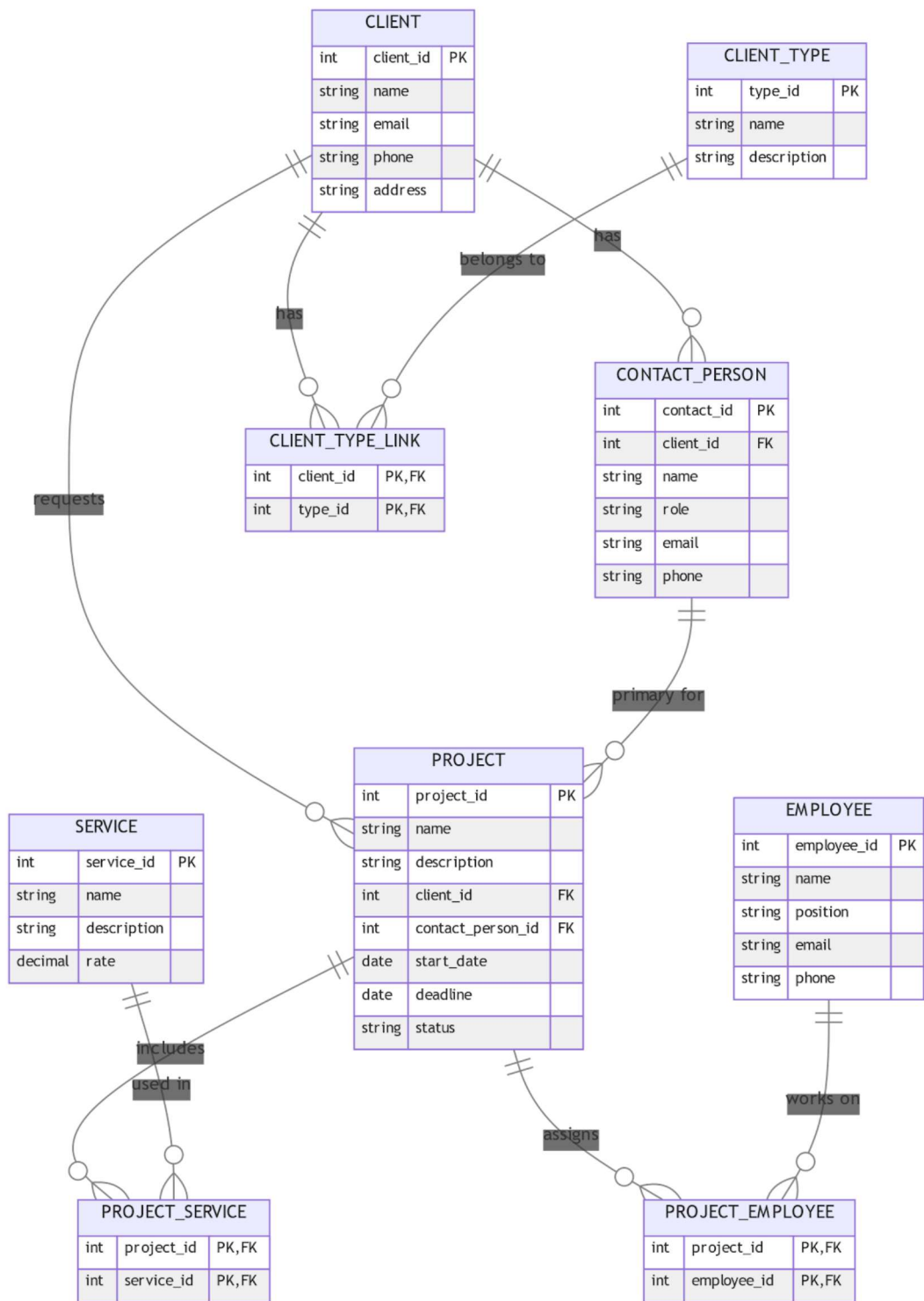
- **Client Management:** Store and manage client information, contacts, and interaction history.
- **Project Tracking:** Monitor project progress, deadlines, and resource allocation.
- **Employee Management:** Manage staff information, skills, and project assignments.
- **Service Catalog:** Maintain a database of services offered with examples.
- **Client Portal:** Allow clients to view project progress and provide feedback.

Technical Approach

The application will be developed as a responsive web application accessible from various devices. It will use a relational database for data storage and will include both a backend API service layer and a user-friendly frontend interface. The UI will be designed by Vibrand Studios' graphic designers (using Adobe InDesign and XD) and integrated into the web application later in the development process.

2. Database Design

The database will serve as the foundation of the Vibrand Studios Project Management Web Application. Below is the Entity Relationship Diagram (ERD) illustrating the structure, relationships, and key fields.



//Pending approval of a feedback view for clients and whether it is on tasks or on projects
 //To be added to the database in the future

3. Service Layer Design

The web application will include an API to provide controlled access to the database through well-defined endpoints. Below are the key services that will be implemented.

ClientService

- Get all clients
- Get client by ID
- Create new client
- Update client
- Delete client
- Search clients by name
- Get client types
- Add client type
- Remove client type

ContactPersonService

- Get contacts by client
- Get contact by ID
- Create new contact
- Update contact
- Delete contact
- Validate credentials
- Get contact's projects

ClientTypeService

- Get all client types
- Get client type by ID
- Create new client type
- Update client type
- Delete client type

ServiceCatalogService

- Get all services
- Get service by ID
- Create new service
- Update service
- Delete service
- Get service examples (previous projects of this service)
- Create service example
- Delete service example

EmployeeService

- Get all employees
- Get employee by ID
- Create new employee
- Update employee
- Delete employee
- Get employee's projects
- Validate credentials

ProjectService

- Get all projects
- Get client projects
- Get project by ID
- Create new project
- Update project
- Delete project
- Get project employees
- Assign employee to project
- Remove employee from project
- Get project services
- Add service to project
- Remove service from project
- Get project feedback (pending further development and decisions)

FeedbackService (pending further development and decisions) (To be added in future updates)

- Create feedback
- Delete feedback
- Update feedback status

ReportingService(pending further development and decisions) (To be added in future updates)

4. View Design

The web application will include multiple views to support different user roles and functions. Below are the key views that will be developed.

Internal Views (for Vibrand Studios Staff)

- Main Dashboard
- Client Management Views
- Contact Management Views
- Project Management Views
- Employee Management Views
- Service Catalog Views

External Views (for Clients)

- Client Portal Login
- Project Dashboard
- Project Detail View
- Feedback Submission View
- Service Catalog View

Public Website Pages

- Home Page
- Services Page
- About Us
- Contact Page
- Portfolio Page

UI Mockups

The user interface will be designed by Vibrant Studios' graphic designers and integrated into the web application. Placeholder mockups will be created using Adobe InDesign and XD to illustrate the layout and functionality of key views.

5. Implementation Plan

(To be completed in the future)