***TinaKing Integrity Consulting Services Inc.***

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***Workflow Tracking System***

*By: -*

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Purpose

The Workflow Tracking System (WTS) automates the package management process, enhancing the efficiency of our client's business operations. It streamlines interactions between clients and employees, improving job submission, review, and invoicing processes.

Scope

The WTS is designed to serve as an all-in-one platform for job management, offering features tailored to the unique needs of our client. Key components of the system include:

* **Client Portal:** Allows users (Clients) log in, and submit packages with detailed requirements, attaching files, setting priority and deadlines.
* **Employee Dashboard:** Enables employees to review submitted packages, assign comments, track progress. Role based Access Control for employees. Three roles being, Administrator, Manager, and the Reviewer.
* **Invoice Generation:** Automates the creation of invoices based on finished Packages, which can then be reviewed and approved and then sent to users email directly from the platform.
* **Reporting and Analytics:** Provides comprehensive reports on job statuses, employee performance, and financial metrics to aid in decision-making and process optimization.

**Technology Stack and Specifications**

**Frontend (TinakingWebApp)**

* Technology: Blazor Web Assembly
* UI Component: MudBlazor
* Purpose: Powers the client portal and employee dashboard with interactive and dynamic user interfaces.

**Backend (TinakingSystem)**

* Framework: .NET 7.0
* Language: C#
* Purpose: authentication, and server-side functionalities.
* BLL Folder: Comprises service classes that contain most of the application's business logic’s, database operations and other interactions. Each service corresponds to a specific feature or set of related functionalities within the application.
* View Model: View Models related to Review Form for ex: AdditionalDetailView.cs, WPS.cs have classes where data needs to be serialized into JSON and deserialized back into C# objects. The use of a nested class for JSON mapping allows for flexibility in JSON structure and property naming, independent of the C# class property names.

**Database**

* Technology: SQL Server
* Purpose: Stores and manages user data, job packages, invoices, and analytics.

**Third-party Services**

* Azure Blob Storage: For file storage and management.
* Bcrypt.Net: Password Hashing and Security.
* ITextSharp: PDF Invoice Formatting.
* Gmail SMTP: For sending emails directly from the platform.

**Credentials**

1. Gmail Account for Password Reset and Sending invoice through email.

Gmail – [TinakingResetpwd@gmail.com](mailto:TinakingResetpwd@gmail.com)

Password - Tinaking@123

2 Step Verification is Enabled, please change the Phone Number as 2FA is mandatory to enable email functionality in Third party Applications.

Go to Manage Google Account > Search (APP PASSWORDS) > Generate password. Place the new generated password in appsettings.json.

1. Azure Blob Storage

The connection string for Azure Cloud Storage must be included in both appsettings.json and the User Secrets of the TinaKingWebApp. The Azure Storage account currently used by the app is owned by one of the developers. This account will eventually be deactivated, which could disrupt the document upload functionality within the application.

Please follow the link below to create a new Azure Storage Account, ensuring the application continues to operate smoothly. If assistance is needed, the team is ready and willing to help:

[Steps for Making new Storage Account](https://learn.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal)