

Project Number: 13

Project Title: Business Process for SMEs Utilizing E-invoicing APIs

Project Clients: Muhammad Raheel Raza

Project specializations: Software Development; Web Application Development;

Number of groups: 5 groups

Main contact: Muhammad Raheel Raza

Background:

- o Streamline e-invoicing processes for SMEs by leveraging e-invoicing APIs.
- o Test different assigned e-invoicing APIs and identify the endpoint functions on a GUI.
- o Reduce manual intervention and errors associated with traditional invoicing methods.
- o Enhance efficiency and accuracy in invoice generation, validation, and transmission

Requirements and Scope:

- o Development of a business process flow for e-invoicing encompassing creation, validation and transmission categories.
- o Design of a fully functional front-end application or GUI, testing the e-invoicing API via different endpoints and demonstrating the endpoint functions.
- o Identification and demonstration of the API endpoint functions on GUI.
- o Documentation of the implemented API service and API integration guidelines for SMEs.

Required Knowledge and skills:

- o Selection of suitable e-invoicing APIs based on compatibility with SME systems, regulatory compliance, and cost-effectiveness.
- o Test different selected/assigned e-invoicing APIs by writing clients and identify the endpoint functions on a GUI.
- o The GUI should show each specific API endpoint to the user and produce results.
- o Implementation of data encryption and privacy measures to safeguard sensitive invoicing information in the front-end.

Expected outcomes/deliverables:

- o Fully functional source code.
- o An in-depth report documenting the entire project process.
- o A testing GUI interface showing each specific API endpoint functionality.
- o API documentation provided by the selected e-invoicing service providers, including API endpoints, request/response formats, authentication methods & error handling procedures.
- o Detailed documentation outlining the business process flow, API integration steps and usage guidelines for SMEs.