E-TENDERING

Secure, Efficient and Quick

MINISTRY CATEGORY: **Tripura Institute of Technology**

COLLEGE CODE: **1-3508291876**

PROBLEM CODE: **DB126**

TEAM NAME: **UTKARSH_2020**

TEAM LEADER NAME: **Viraj Tandel**

Problem Statement

- Design cost effective and user friendly E-tendering system.

- Replace DSC based EVC system with Aadhaar OTP authentication.

- Use of Digilocker for documents sharing.

Integrated Services

Aadhaar - Unique Identification Authority of India.

Digilocker - Digilocker is Digital locker Service from Government of India which uses 256 bit SSL encryption for storing documents.

E-sign - Get documents E-signed through digital signature.

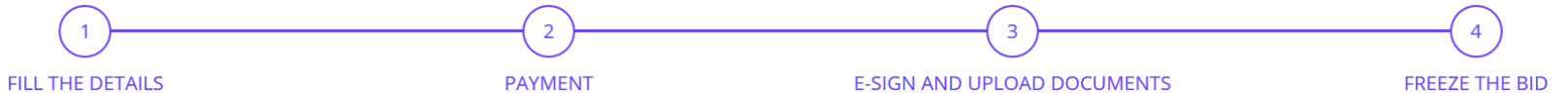**Payment** - Paytm Secure Payment Gateway.

Process

Admin Floats Tender.

Admin   Vendor

Tender application process with 4 easy steps.

①	②	③	④
FILL THE DETAILS	PAYMENT	E-SIGN AND UPLOAD DOCUMENTS	FREEZE THE BID

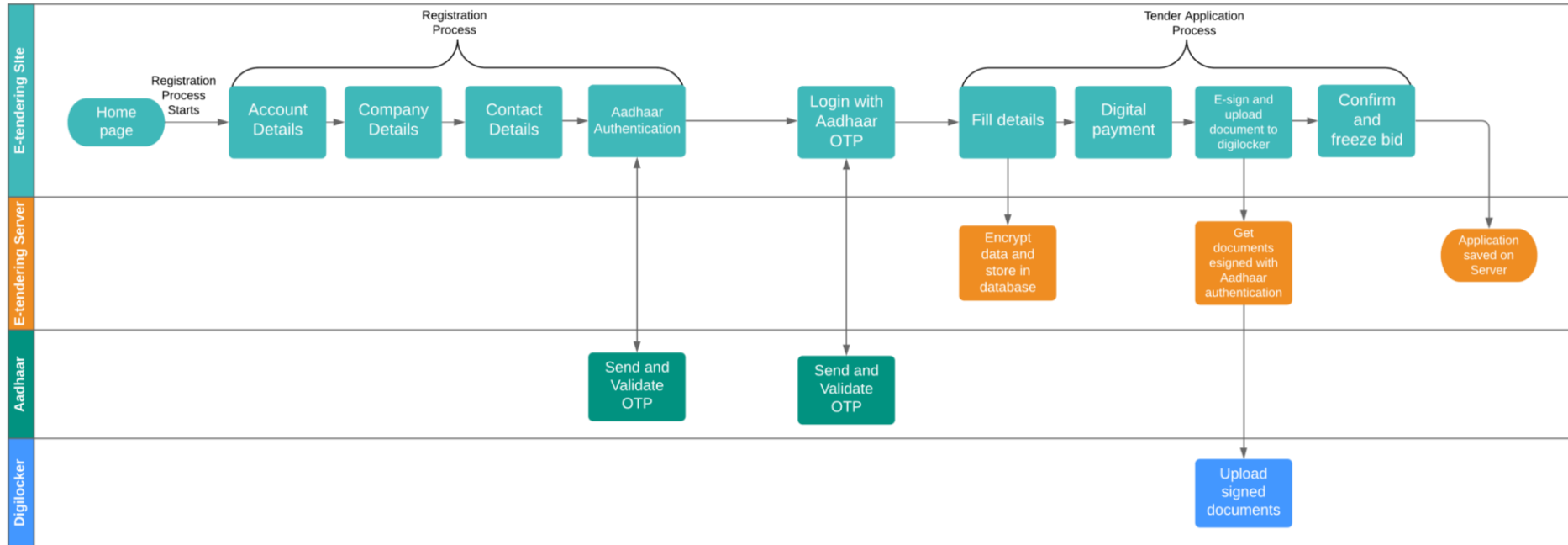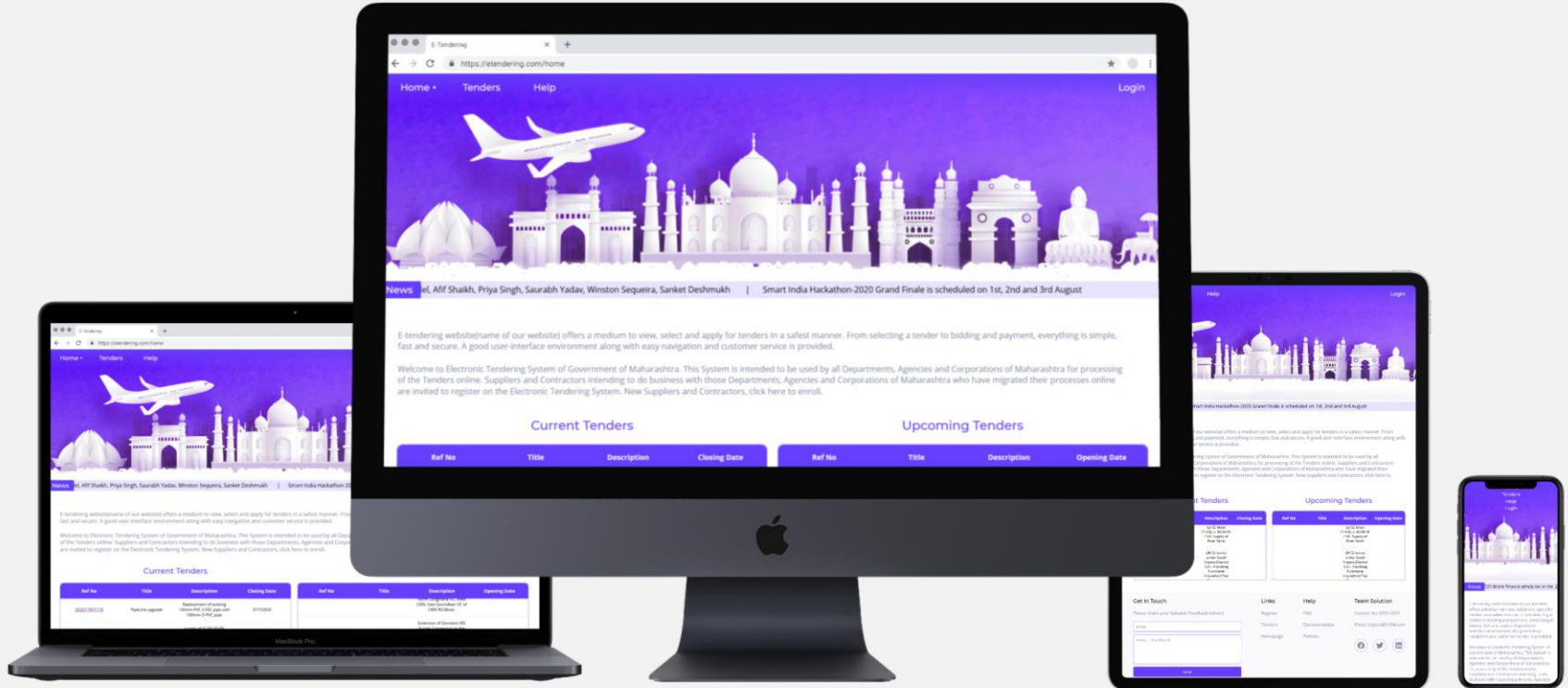Three step Transparent Bid Selection Process - Technical, Financial, Result.

Flowchart

Fig 1. System Flowchart

Demonstration

USP

Secured HTTPS Protocol.

Encrypted DB.

Aadhaar Based OTP.

Self E-sign Feature.

Integrated Digilocker API.

SECURITY

End to End Encryption between Client and Server with TLS 1.3 Protocol (C).

128-bit AES Encryption (C).

6-digit OTP (A).

P12-Certificate { RSA + AES-128bit } (I).

256-bit SSL encryption (C & A).
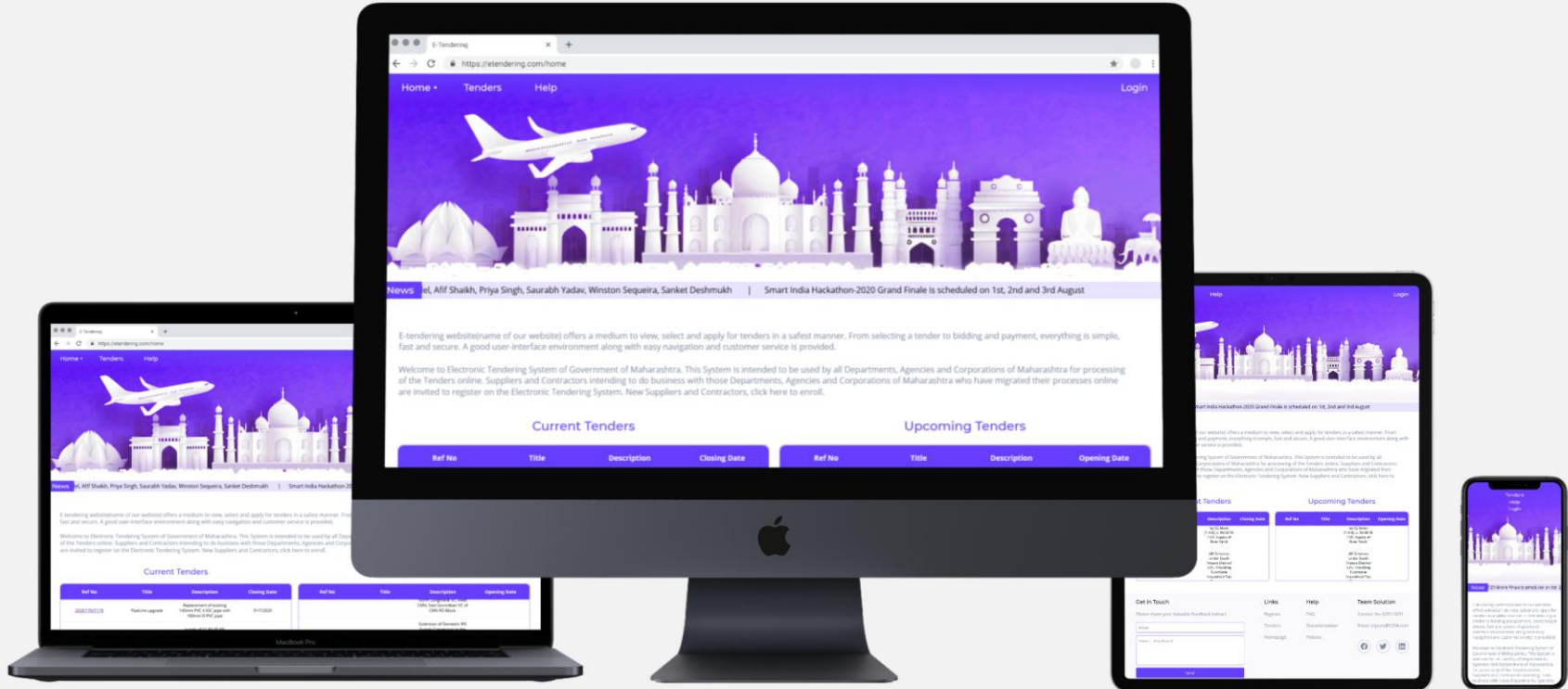
TECHNOLOGY STACK

HTML CSS

JAVA SCRIPT

PYTHON

NODE JS

MYSQL

QNA

Thank You!