KISI-KISI

LOMBA KOMPETENSI SISWA (LKS)-SMK TINGKAT NASIONAL XXX TAHUN 2022

BIDANG LOMBA

Teknologi Informasi Piranti Lunak untuk Bisnis
(IT Software Solution for Business)

Teknologi Informasi & Komunikasi

A. General Requirements:

- Every module should be provided with proper validation and informative error messages.

- Scrollbar should be visible whenever there are lists or views that occupy more than one screen.

- Use ISO compliant date format YYYY-MM-DD for date.

- Use proper naming conventions for variables, functions, or filename.

- By default, form should be displayed in the centre of the screen.

- Whenever a form or dialog is in focus, other form functionality should be disabled.

- Wireframe given in the test project is for reference only. Modifications are allowed if they do not affect the performance and functionality of the requested features.

- Pay attention to given working durations. The time given includes the duration for the submission process. Additional time will not be added during normal conditions.

B. Test Projects Details

Module Name	Estimated Duration (Hours)	Requirements
Desktop Application	2 - 4	- Import database and its content from external sources. - Create windows forms and its components based on given requirements. - Validating user input. - Role validation and menu access restriction based on login data. - Show, insert, update, or delete records from the database. - Create windows forms and its components based on given requirements. - Join tables query. - Aggregate query. - Display data using charts. - Searching and filtering. - Datagridview manipulation.
Mobile Application	2 - 4	- Create a mobile application form and its component based on given requirements. - Show, insert, update, or delete records from external sources (database or API). - Searching and filtering. - Export data to external files. - Show Image from others resource. - Animation using canvas. - User Authentication and Token Management

Module Name	Estimated Duration (Hours)	Requirements
Web Application	2 - 4	- Analysing given requirements and converting them into database design. - Provide all Restful API endpoints according to the endpoint contract given. - Produce the right logic for each endpoint. - Provide the right Restful API endpoint including headers, params, request body, and method also with the return object suitability (http status code, response header, response body). - Provide the consumable response for each negative case that might occur. - Searching and filtering. - User Authentication and Token Management