Kemendikdasmen
Pusat Prestasi Nasional

#PENDIDIKAN BERMUTU UNTUK SEMUA
KEMENDIKDASMEN RAMAH

LKS DIKMEN
TINGKAT NASIONAL

Kisi-kisi
Lomba Kompetensi Siswa Nasional 2026

SMA/MA/SMK/MAK/Sederajat



Cabang Ajang

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

KISI-KISI

TEKNOLOGI INFORMASI PIRANTI LUNAK UNTUK BISNIS (IT SOFTWARE SOLUTION FOR BUSINESS)

LOMBA KOMPETENSI SISWA (LKS) PENDIDIKAN MENENGAH
TINGKAT NASIONAL XXXIV
TAHUN 2026

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General Requirements

- Each module must include proper validation and clear error messages.
- Scrollbars must be displayed when a list or view cannot be fully contained within a single layer.
- Use the ISO-compliant date format YYYY-MM-DD for all date fields.
- Apply proper naming conventions for all submitted materials.
- All forms or reports must be displayed centered on the screen.
- When a form or dialog is in focus, other forms must be disabled to prevent parallel processing.
- The provided wireframes are for reference only. Modifications are permitted if they do not affect the functionality or performance of existing features.
- Pay close attention to the allocated working time and manage the available time effectively.

Module: Desktop Applications (.NET)

- Import databases and their contents from external sources (database or API).
- Create Windows Forms and UI components based on the given requirements.
- Perform user input validation and enforce menu access restrictions based on user roles.
- Display and manage database records, including create, read, update, delete (CRUD), search, and filtering operations.
- Process data using relational queries, including JOIN and aggregate queries.
- Present data in visual formats, such as charts.
- Manipulate and manage data using DataGridView components.Instructions to the Competitor

Module: Mobile Applications (Android)

- Analyze given requirements and translate them into an appropriate database design.
- Design and implement APIs according to the given endpoint contract.
- Implement correct business logic for each API endpoint.
- Define and provide API endpoints with proper HTTP methods, headers, parameters, request bodies, and appropriate responses (HTTP status codes, response headers, and response bodies).
- Handle negative cases and errors by providing consistent and consumable API responses.
- Create mobile application forms and UI components based on the given requirements.
- Integrate the mobile application with APIs to display and manage data, including create, read, update, and delete (CRUD) operations.
- Implement data searching and filtering features in the mobile application.
- Export application data to external files.

Module: Software Design

- Able to analyze and document requirements based on user and system needs.
- Able to develop use cases that clearly represent interactions between users and the system.
- Able to model system workflows using activity diagrams in accordance with the defined requirements.
- Able to design user interfaces for desktop and mobile applications that meet functional requirements and usability principles.

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