



Balai Pengembangan Talenta Indonesia
Pusat Prestasi Nasional
Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi

**MERDEKA
BELAJAR**

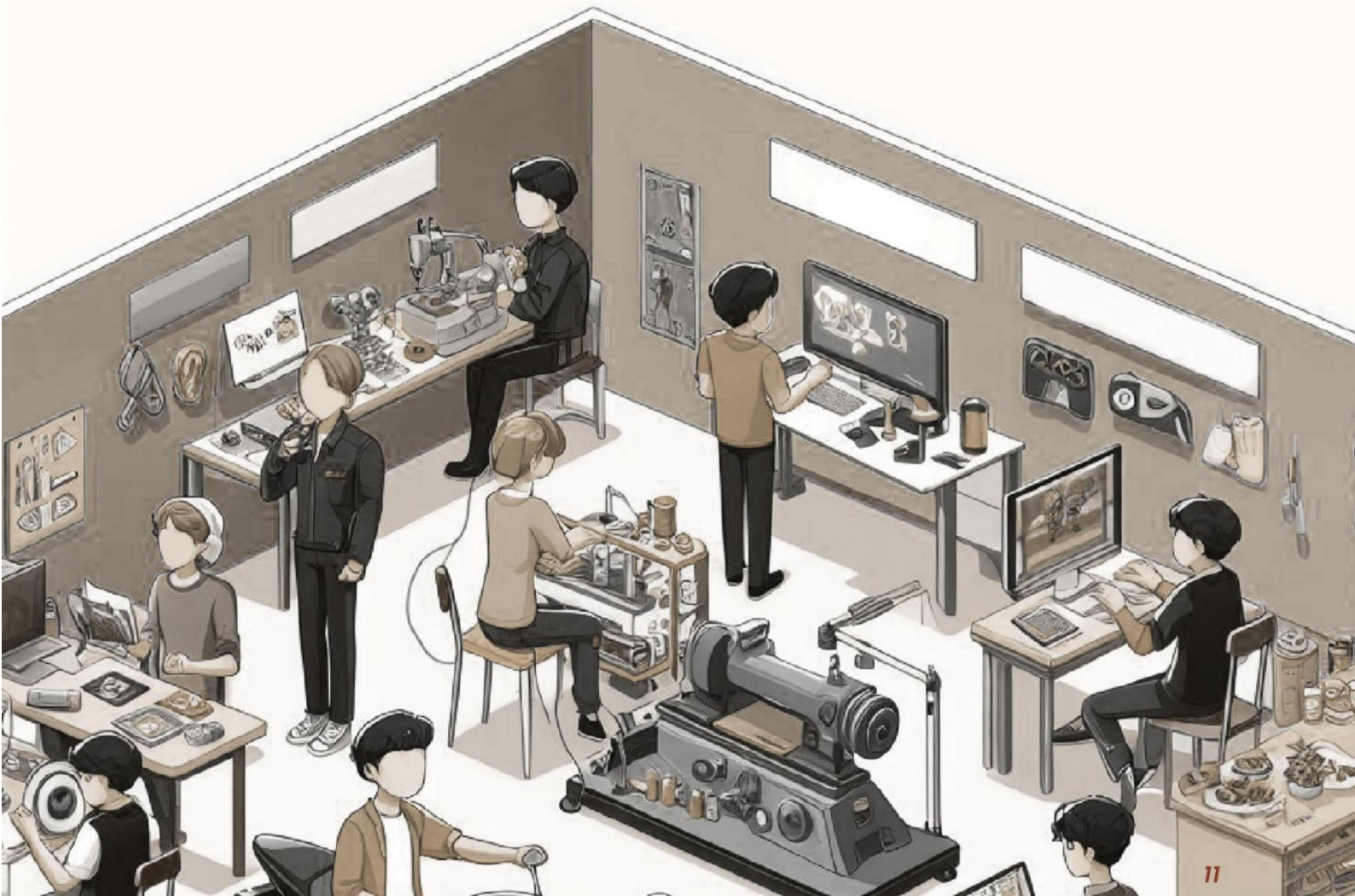


SMK

Kisi-Kisi

Lomba Kompetensi Siswa Nasional 2024

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



MERDEKA BERPRESTASI
Talenta **Vokasi** Menginspirasi

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. Any other specific date format will be given in the test project.
- 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	6 - 8	<ul style="list-style-type: none"> • 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	6 - 8	<ul style="list-style-type: none"> • 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. • User Authentication and Token Management

Web API	3 - 4	<ul style="list-style-type: none">• Create a REST API based on the given API Specifications.• Show, insert, update, or delete records from the database by utilizing REST API endpoints.• Searching and filtering data using query parameters.• Show image by using REST API endpoints.• Join tables query.• Aggregate query.
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