LKS SMK
Tingkat Nasional
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Soal

BIDANG LOMBA

IT-Software Application

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
DIREKTORAT JENDERAL PENDIDIKAN MENENGAH
DIREKTORAT PEMBINAAN SEKOLAH MENENGAH KEJURUAN
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Phase 2: Designing User Interfaces of the system

From the information system design developed in the previous phase, you are required to develop the user interface of the system with the following criteria:

1. All form developed should be designed as sub-form running under one main application, "**ESEMKA Airlines Information System"**

2. Ensure all the flow chart/activity diagram designed in the first phase is translated into application form. Providing all component needed to display the information that relate to the flow chart/activity diagram. You can freely develop any form that you think is needed to support ESEMKA Airlines business process, as a result of your analysis.

   Concerning these mandatory forms that need to be developed:

   - Plane Management Form
   - Flight Scheduling Form
   - Information Broadcast Form
   - Flight Booking Form
   - Seat Availability Form
   - In-flight Meal Management Form
   - In-flight Meal Order Form
   - Check-in Form
   - Boarding Form

3. Clear and neat layout or component positioning is a key point to be concerned when developing the user interface.

4. Take concern on the form navigation, the navigation between forms should reflect and support current flow of ESEMKA Airlines business process.

5. Make sure all the form designed can be used easily; image the form will be used to conduct more than 100 data input per transaction/process.

6. Ensure all the information fields on the user interface are using the proper component. E.g. using a radio button for gender fields.

7. For all user interface developed, please concern the 8 Golden Rules of User Interface Design, which is:

    a. Strive for consistency

    b. Enable frequent users to use shortcuts, develop a minimum 5 shortcut to open designed form to help the frequent user

    c. Offer informative feedback, ensure there's a minimum 5 feedback to responds the user action

    d. Design dialog to yield closure

    e. Offer simple error handling

    f. Permit easy reversal of actions

    g. Support internal locus of control

    h. Reduce short-term memory load, a simple breadcrumb navigation to help the user remember the form steps