

THE DEVELOPMENT OF SMK NUSANTARA INFORMATION SYSTEM

SMK NUSANTARA is one of Indonesia famous vocational school located in Solo.. As the school growth, the Headmaster thinks it is the time to use Information System to support their business process for scheduling process. After hiring famous consultant to analyze and design the system, it is the time to develop the system.

Based on the system design given to you, you're required to develop Information system to support the business process of scheduling for SMK Nusantara. Ensure your developed solutions can accommodate SMK Nusantara business process properly, following the instruction on the project!

Module 1: Database Creation and Main Form Development

1. Create the Database

Create a database using your MS SQL Server on the local database server based on given ERD and Data Dictionary given on page 3-5 for table detail score and expertise.

2. Insert the Data

Insert the master data given to you on file “*data.xlsx*” to the related table on your newly created database.

3. Create Application

Create an application using your preferred platform (C# or Visual Basic.NET).

4. Create “01 Login Form”

Create the main menu of the application as outlined in “**01 Login Form**” in the wireframe.

- Ensure user that have account in database can login
- Ensure user will go to correct navigation form according to their role
- If button logout clicked, close all window and show login form

5. Create “02 Teacher Navigation Form”

Create the main menu of the application as outlined in “**02 Teacher Navigation Form**” in the wireframe.

- Ensure this form just can be accessed by Teacher

6. Create “03 Student Navigation Form”

Create the main menu of the application as outlined in “03 Student Navigation Form” in the wireframe.

- Ensure this form just can be accessed by Student

7. Create “04 Admin Navigation Form”

Create the main menu of the application as outlined in “04 Admin Navigation Form” in the wireframe.

- Ensure this form just can be accessed by Admin

8. Create “07 Edit Profile Form”

Create the main menu of the application as outlined in “07 Edit Profile Form” in the wireframe.

- Ensure the form display **correct data** according to the user login
- Ensure program can **preview image** from uploaded file
- Ensure program have filter proper image extension while **browsing a file** from computer (*.jpg,*.png).
- Generate picture name with timestamp (ddmmyyhhmmss) + original extension from uploaded file. Example: if user upload image with name pp1.png at **15 May 2017 12:10:15**, the file name become **150517121015.png**
- Ensure **Address** must be filled
- Ensure **name** have between **3 and 20 character**.
- Ensure **phone number** must be **11 – 12 Digit** and **start with 08**
- If button change password is clicked, show “08 Change Password Form”

- If button save is clicked, program will **save** all **data** and **upload** the **picture** to the system