

## **Module 2: Master Form Development**

### **1. Create “05 Manage Student Form”**

Create the main menu of the application as outlined in “05 Manage Student Form” in the wireframe.

- At the first, **studentID**, **name**, **address**, **gender**, Date of Birth (dd/mm/yyyy), and **phone number** will be **disabled** and button **save** and **cancel** will be **invisible**.
- Ensure the form **display** all **Student data** which is stored inside the database
- The **Search Box** will allow the user to **search based on ID, name, address, phone** in **database** that contains words according to the **inputted words** and **display** it in **datagridview**.
- Ensure every time **user click** 1 row in **datagridview**, the **selected data** will be **displayed** in **all component** form.
- If user click **insert** or **update button** the program will :
  - **name, address, gender, Date of Birth**, and **phone number** will be **enabled**, button **save** and **cancel** will be **visible** and button **insert, update** and **delete** will be **invisible**
  - if user click **insert**, every **text** will be **empty** and **StudentId** will be auto **generated** with **format yyyy + xxxx** (yyyy for this year and xxxx for number.), example : 20170001
- Ensure **address** and **gender** must be **filled** before adding or updating the data.
- Ensure **name** have between **3 and 20 character**.

- Ensure **phone number** must be **11 – 12 Digit** and **start with 08**
- Ensure the **age** student must be between **15** and **21** years.
- If user click **Save** or **Cancel** button, the program will :
  - **name, address, gender, Date of Birth**, and **phone number** will be **disabled**, button **save** and **cancel** will be **invisible** and button **insert, update** and **delete** will be **visible**
  - if user click **save** button, the program will generate **default password** and save every data that user inputted into database.
- Format **default password** : first character in student name (upper case) + last character in student name (lower case) + yyyy (year of birth), example : Tony, 12 July 2001. Default password : Ty2001

## 2. Create “06 Manage Teacher Form”

Create the main menu of the application as outlined in “06 Manage Teacher Form” in the wireframe.

- At the first, **TeacherID, name, address, gender, Date of Birth (dd/mm/yyyy)** , and **phone number** will be **disabled** and button **save** and **cancel** will be **invisible**.
- Ensure the form **display** all **Teacher data which is** stored inside the database
- The **Search Box** will allow the user to **search based on ID, name, address, and phone** in **database** that contains words according to the **inputted words** and **display** it in **datagridview**.
- Ensure every time **user click** 1 row in **datagridview**, the **selected data** will be **displayed** in **all component** form.

- If user click **insert** or **update button** the program will :
  - **name, address, gender, Date of Birth, and phone number** will be **enabled**, button **save** and **cancel** will be **visible** and button **insert, update** and **delete** will be **invisible**
  - if user click **insert**, every **text** will be **empty** and **StudentId** will be auto **generated** with **format T + xxxx**, example : T0001
- Ensure **address** and **gender** must be **filled** before adding or updating the data.
- Ensure **name** have between **3 and 20 character**.
- Ensure **phone number** must be **11 – 12 Digit** and **start with 08**
- Ensure the **age** teacher must be between **25** and **50** years.
- If user click **Save** or **Cancel** button, the program will :
  - **name, address, gender, Date of Birth, and phone number** will be **disabled**, button **save** and **cancel** will be **invisible** and button **insert, update** and **delete** will be **visible**
  - if user click **save** button, the program will generate **default password** and save every data that user inputted into database.
- Format **default password** : first character in teacher name (upper case) + last character in teacher name (lower case) + yyyy (year of birth), example : Tony, 12 July 2001. Default password : Ty2001

### 3. Create “08 Change Password Form”

Create the main menu of the application as outlined in “08 Change Password Form” in the wireframe.

- Ensure user must input **correct old password**
- Ensure user input **new password** with **correct format** (contains upper case, lower case, number with total 6-9 character).
- Ensure **confirm password** must be same with **new password**.
- If **save button** is clicked, **save new password** into database and close the form