

Preparation:

1. Create your MS SQL database named **TestFinal** by running code in script **SQLFile.sql**.

Questions:

Create an **index.jsp** page with GUI as below figures:

Select student's major

| RollNo | Major | FullName | City | Gender |
|---------|-------------|------------------|---------|--------|
| SB03901 | Business | Hoang Lan Phuong | Phu Tho | Female |
| SE03456 | Engineering | Nguyen Thanh Tam | Ha Noi | Male |

Requirements:

- Values for select control are **All, Engineering, Business and Others**. By default the selected value of select control is **All (0.1 Point)**
- At the running time, display the information of all students as table **(2.0 Point)**, order by Major **(0.2 Point)**

When the users select an item from select control and click Search, display the information of all Students who have major is equal to selected major from select control **(2.5 point)**. Data must be displayed on the page **index.jsp**, and the selected value on select control must be set to the one that has been selected **(1.0 Point)**.

Select student's major

| RollNo | Major | FullName | City | Gender |
|---------|-------------|------------------|--------|--------|
| SE03456 | Engineering | Nguyen Thanh Tam | Ha Noi | Male |

The table must have the same columns with one in above figures and must on page index.jsp

When the users click on **Add new** button, browse to page **add.jsp** which will display the input form as the below figures **(1.0 Point)**.

Enter the information of Student

Roll no

Major

Full name

City

Gender ☐ Male ☐ FeMale

Requirements:

- Values for select control are **Engineering, Business and Others**. By default the selected value of select control is Engineering (**0.1 Point**).

When the users click on **Save** button, validate the data on the input form as rules:

- Require data for all text fields (**0.3 Point - 0.1 Point for each error message**).
- Roll no must start with SE if major is Engineering and must start with SB if the major is Bussiness (**0.2 Point**).
- Gender must be selected (**0.1 Point**).

All the validation must be DONE on **add.jsp** page.

When the validation is correct. Save information on input form to Student table (**2.0 Point**) and browse back to page **list.jsp**.

Enter the information of Student

Roll no

Major

Full name

City

Gender ☒ Male ☐ FeMale

When user clicks on the Cancel button, browse back to page **list.jsp** (**0.5 Point**)

Select student's major

| RollNo | Major | FullName | City | Gender |
|---------|-------------|------------------|---------|--------|
| SB03901 | Business | Hoang Lan Phuong | Phu Tho | Female |
| SE03456 | Engineering | Nguyen Thanh Tam | Ha Noi | Male |
| IA01234 | Others | Nguyen Bao Anh | Ha Tay | Male |