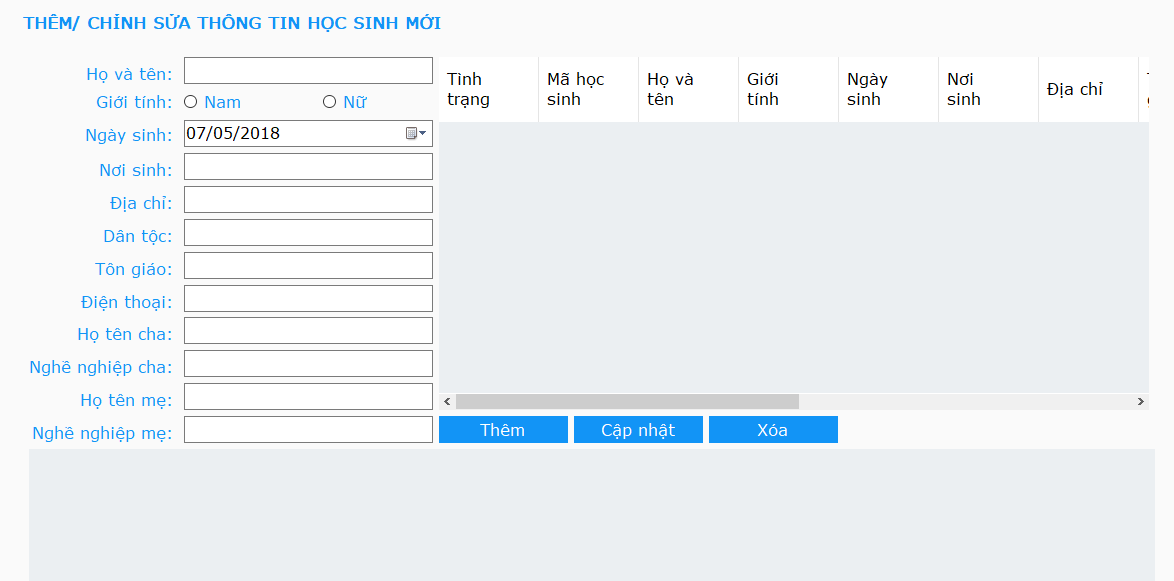
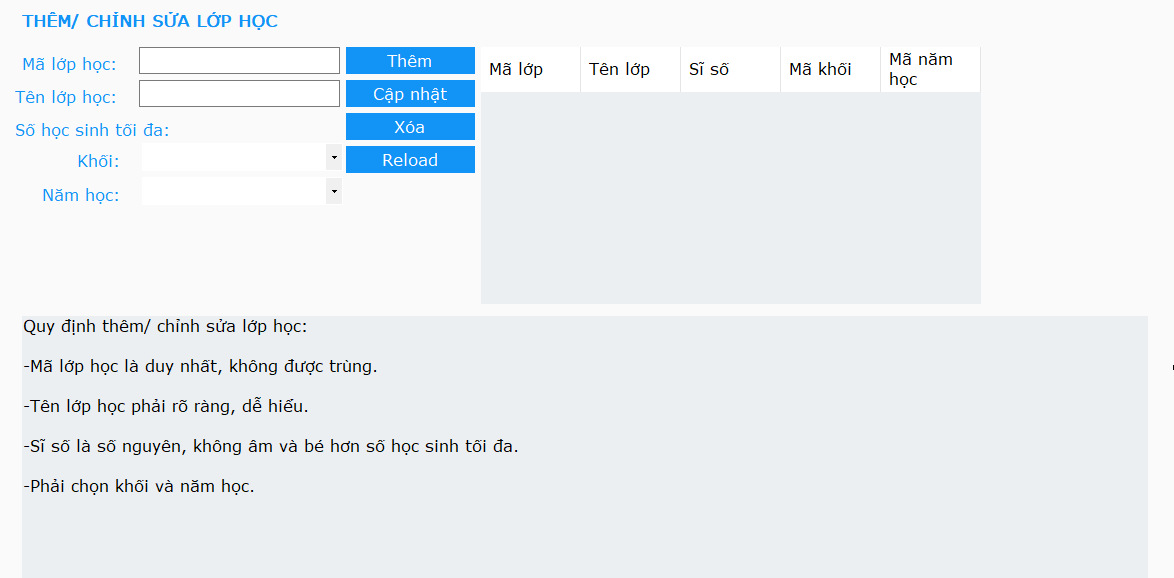
1. Thêm/ xóa/ sửa học sinh



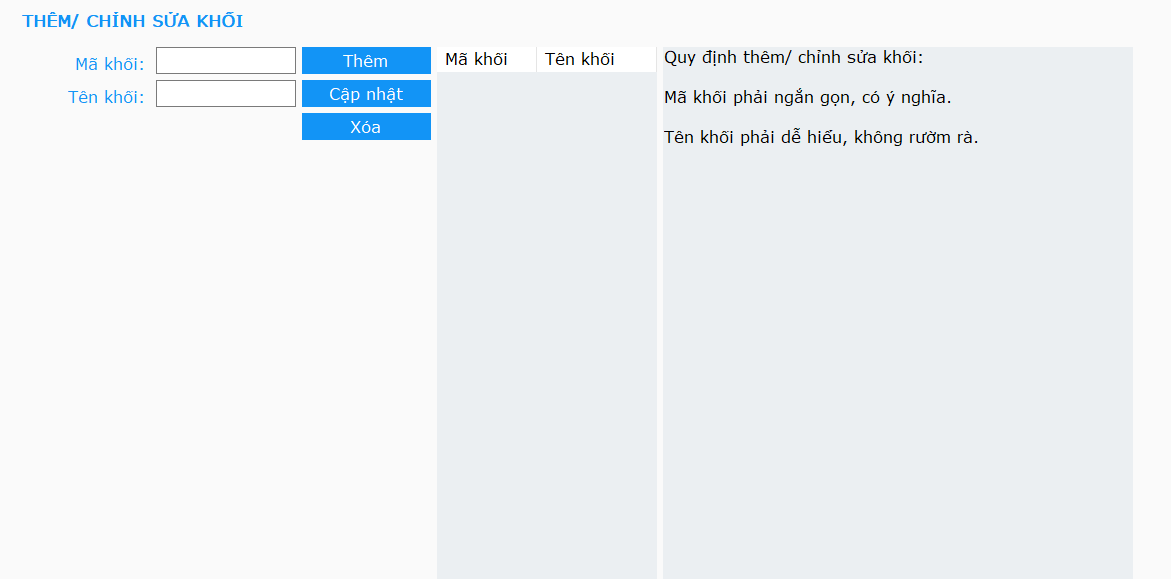
|  |  |  |  |
| --- | --- | --- | --- |
| Student\_DAL | Student\_DTO | Student\_BUL | Student\_GUI |
| ID  Name  Birthday  Birthplace  Sex  Religion  National  Address  Phone  Father  FJob  Mother  MJob  Status | Status  ID  Name  Sex  Birthday  Birthplace  Address  Religion  Nation  Phone  Father  FJob  Mother  MJob |  | lbName  lbBirthday  lbBirthplace  lbSex  lbReligion  lbNational  lbAddress  lbPhone  lbFather  lbFJob  lbMother  lbMJob  lbStatus  txtName  txtBirthplace  txtReligion  txtNational  txtAddress  txtPhone  txtFather  txtFJob  txtMother  txtMJob  btnInsert  btnUpdate  btnDelete |
| Load()  Insert(Student\_DTO stdDTO)  Update(Student\_DTO stdDTO)  Delete(int ID) |  | Load()  Insert(Student\_DTO stdDTO)  Update(Student\_DTO stdDTO)  Delete(int ID) | InsertStudent()  UpdateStudent()  DeleteStudent()  TestStudent() |

1. Thêm/ xóa/ sửa lớp



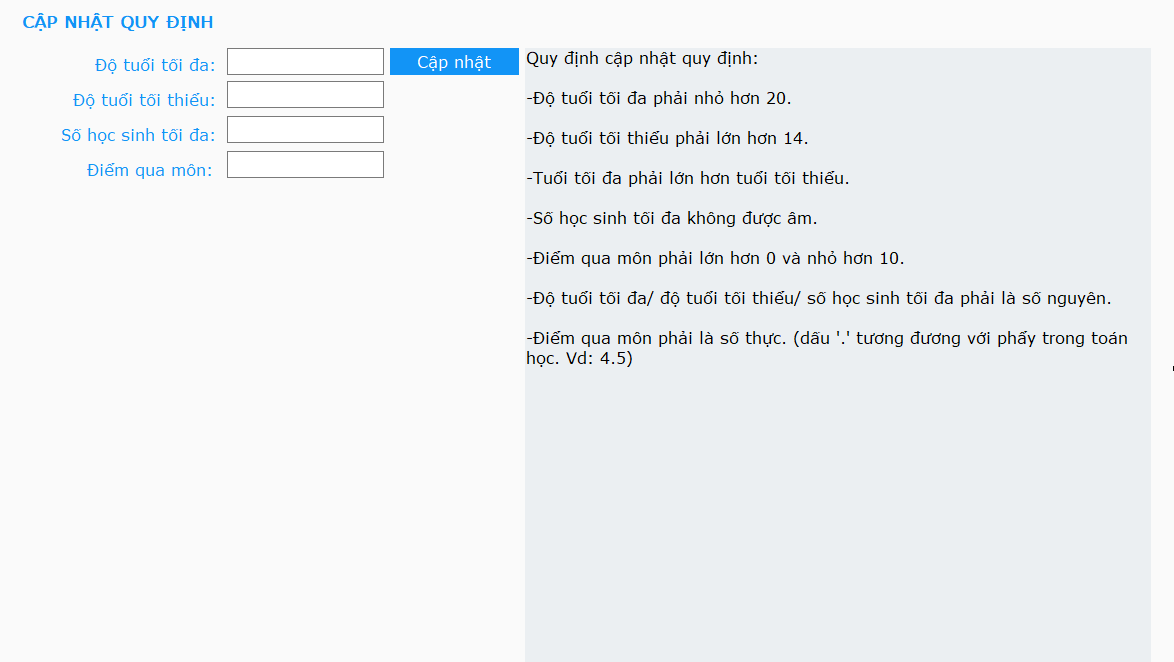
|  |  |  |  |
| --- | --- | --- | --- |
| Class\_DAL | Class\_DTO | Class\_BUL | Class\_GUI |
| ID  GradeID  SCID  Name  Students | ID  Name  Students  GradeID  SCID |  | lbID  lbName  lbSCID  lbGrade  lbStudents  txtID  txtName  txtGrade  txtStudents  btnInsert  btnUpdate  btnDelete  btnReload |
| Load()  Delete(string)  Update(Class\_DTO ClassDTO)  Insert(Class\_DTO ClassDTO)  UpdateNumberStudent(int, string) |  | Load()  Delete(string)  Update(Class\_DTO ClassDTO)  Insert(Class\_DTO ClassDTO)  UpdateNumberStudent(int, string) | InsertClass()  Update()  Delete()  Reload() |

1. Thêm/ xóa/ sửa khối



|  |  |  |  |
| --- | --- | --- | --- |
| Grade\_DAL | Grade\_DTO | Grade\_BUL | Grade\_GUI |
| ID  Name | ID  Name |  | lbID  lbName  txtID  txtName  btnInsert  btnUpdate  btnDelete |
| Load()  Insert(Grade\_DTO gradeDTO)  Update(Grade\_DTO gradeDTO)  Delete(string ID) |  | Load()  Insert(Grade\_DTO grade\_DTO)  Update(Grade\_DTO grade\_DTO)  Delete(string ID) | InsertGrade()  UpdateGrade()  DeleteGrade() |

1. Cập nhật qui định



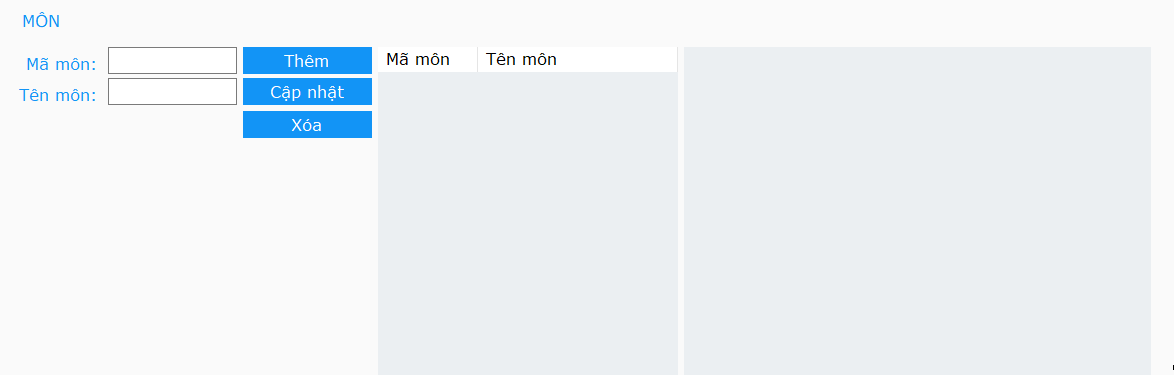
|  |  |  |  |
| --- | --- | --- | --- |
| Rule\_DAL | Rule\_DTO | Rule\_BUL | Rule\_GUI |
| MaxAge  MinAge  MaxStudent  PassedScore | MaxAge  MinAge  MaxStudent  PassedScore |  | lbMaxAge  lbMinAge  lbMaxStudent  lbPassedScore  txtMaxAge  txtMinAge  txtMaxStudent  txtPassedScore  btnUpdate |
| Load()  UpdateRules(Rule\_DTO RulesDTO) |  | Load()  Update(Rule\_DTO RulesDTO) | UpdateRule() |

1. Thêm/ xóa/ sửa năm học



|  |  |  |  |
| --- | --- | --- | --- |
| SchoolYear\_DAL | SchoolYear\_DTO | SchoolYear\_BUL | SchoolYear\_GUI |
| ID  Begin  End | ID  Begin  End |  |  |
| Load()  Insert(SchoolYear\_DTO schoolYear\_DTO)  Update(SchoolYear\_DTO SchoolYearDTO)  Delete(string ID) |  | Load()  Insert(SchoolYear\_DTO schoolYear\_DTO)  Update(SchoolYear\_DTO schoolYear\_DTO)  Delete(string ID) | InsertSY()  UpdateSY()  DeleteSY() |

1. Thêm/ xóa/ sửa môn học



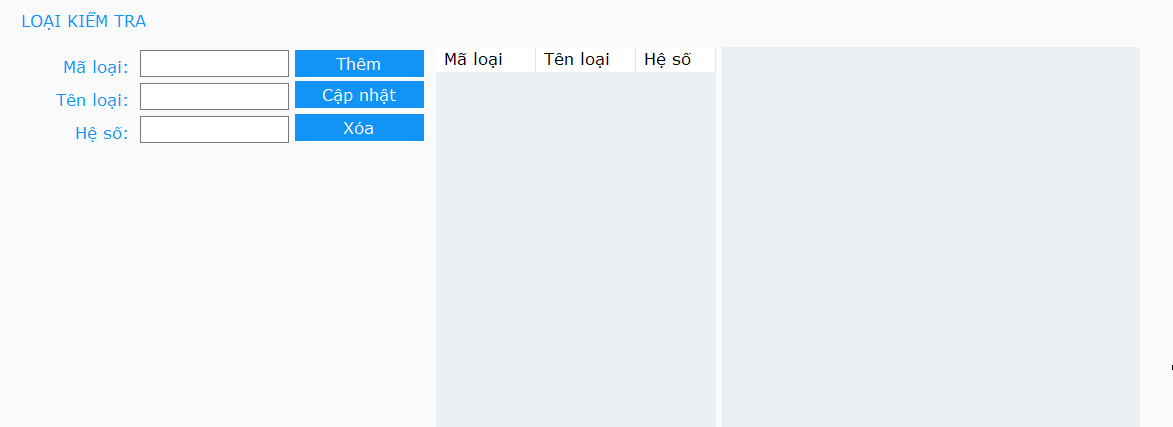
|  |  |  |  |
| --- | --- | --- | --- |
| Subject\_DAL | Subject\_DTO | Subject\_BUL | Subject\_GUI |
| ID  Name | ID  Name |  | lbID  lbName  txtID  txtName  btnInsert  btnUpdate  btnDelete |
| Load()  Insert(Subject\_DTO subjectDTO)  Update(Subject\_DTO subjectDTO)  Delete(string ID) |  | Load()  Insert(Subject\_DTO subjectDTO)  Update(Subject\_DTO subjectDTO)  Delete(string ID) | InsertSubject()  UpdateSubject()  DeleteSubject() |

1. Thêm/ xóa/ sửa học kỳ



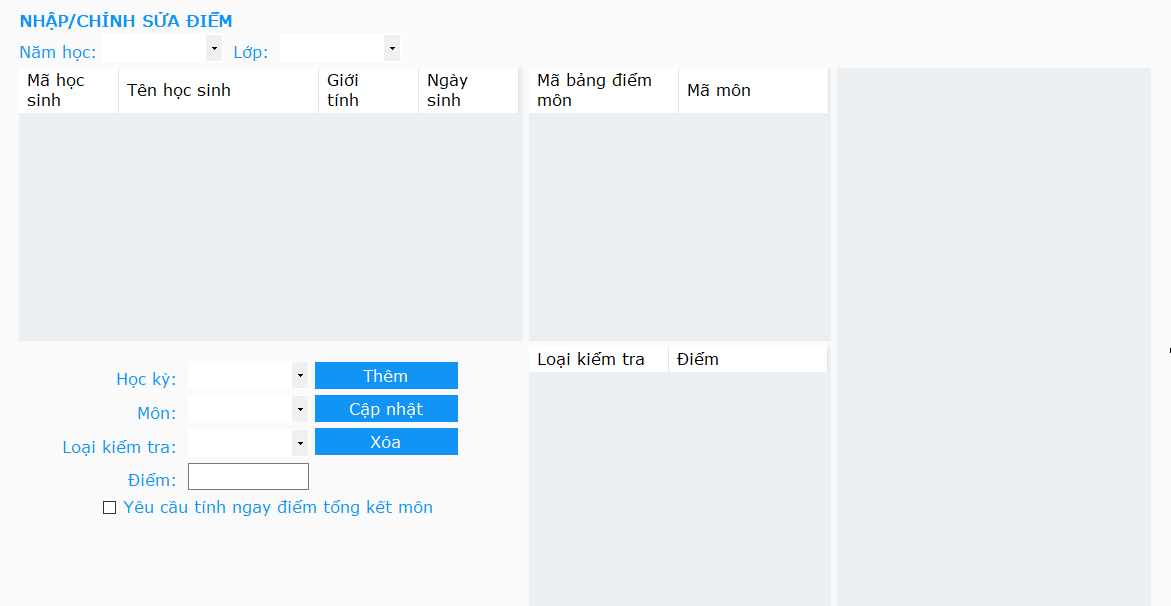
|  |  |  |  |
| --- | --- | --- | --- |
| Term\_DAL | Term\_DTO | Term\_BUL | Term\_GUI |
| ID  Name  SCID | ID  Name  SCID | ID | lbID  lbName  lbSCID  txtID  txtName  txtSCID  btnInssert  btnUpdate  btnDelete |
| Load()  Insert(Term\_DTO term\_DTO)  Update(Term\_DTO term\_DTO)  Delete(string ID)  LoadBySC(string ID) |  | Load()  Insert(Term\_DTO term\_DTO)  Update(Term\_DTO term\_DTO)  Delete(string ID)  LoadBySC(string ID) | InsertTerm()  UPdateTerm()  DeleteTerm() |

1. Thêm/ xóa/ sửa loại kiểm tra



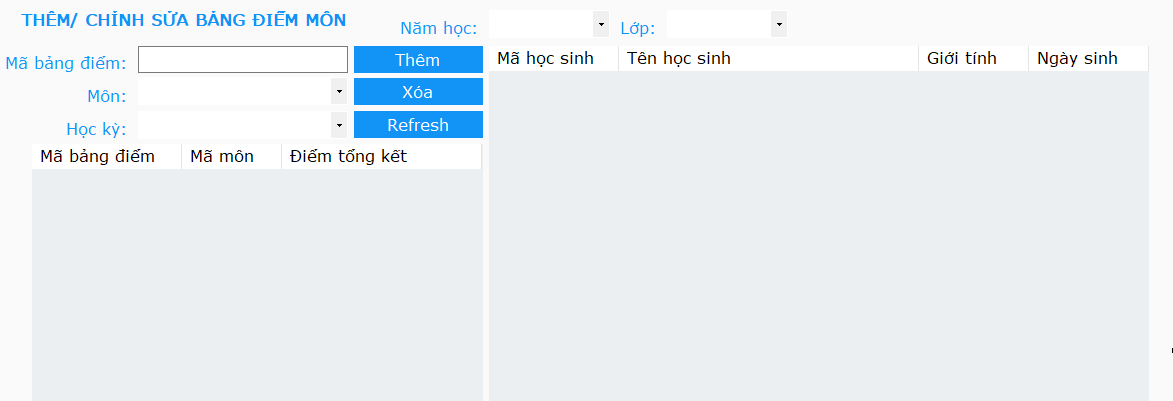
|  |  |  |  |
| --- | --- | --- | --- |
| TypeExam\_DAL | TypeExam\_DTO | TypeExam\_BUL | TypeExam\_GUI |
|  | ID  Name  Index |  | lbID  lbName  lbIndex  txtID  txtName  txtIndex  btnInssert  btnUpdate  btnDelete |
| Load()  Insert(TypeExam\_DTO typeExam\_DTO)  Update(TypeExam\_DTO typeExam\_DTO)  Delete(string ID) |  | Load()  Insert(TypeExam\_DTO typeExam\_DTO)  Update (TypeExam\_DTO typeExam\_DTO)  Delete (string ID) | InsertTypeExam()  UPdateTypeExam()  DeleteTypeExam() |

1. Thêm/ xóa/ sửa điểm



|  |  |  |  |
| --- | --- | --- | --- |
| DetailScore\_DAL | DetailScore\_DTO | DetailScore\_BUL | DetailScore\_GUI |
| ID  SBSID  TypeExamID  Score | ID  SBSID  TypeExamID  Score | ID | lbID  lbSBSID  lbTypeExamID  lbScore  txtID  txtSBSID  txtTypeExamID  txtScore  btnInssert  btnUpdate  btnDelete |
| Load()  Insert(DetailScore\_DTO detailScore\_DTO)  Update(DetailScore\_DTO detailScore\_DTO)  Delete(string)  LoadBySubject(string  LoadBySudent(string) |  | Load()  Insert(DetailScore\_DTO detailScore\_DTO)  Update(DetailScore\_DTO detailScore\_DTO)  Delete(string)  LoadBySubject(string  LoadBySudent(string) | InsertTerm()  UPdateTerm()  DeleteTerm() |

1. Thêm/ xóa/ sửa bảng điểm môn



|  |  |  |  |
| --- | --- | --- | --- |
| ScoreBySubject\_DAL | ScoreBySubject\_DTO | ScoreBySubject\_BUL | ScoreBySubject\_GUI |
|  | ID  ProcessID  SubjectID  FinalScore |  | lbID  lbSubjectID  lbTerm  txtID  txtSubjectID  txtTerm  btnInsert  btnDelete  btnRefresh |
| Insert(ScoreBySubject\_DTO scoreBySubject\_DTO)  LoadByProcessID(int ID)  Delete(string ID) |  | Insert(ScoreBySubject\_DTO scoreBySubject\_DTO)  LoadByProcessID(int ID)  Delete(string ID) | InsertScoreBySubject()  DeleteScoreBySubject()  RefreshScoreBySubject() |