**Java\_Sender**

* **Package entity**

**import** java.util.Date;

**import**jakarta.xml.bind.annotation.XmlAttribute;

**import** jakarta.xml.bind.annotation.XmlElement;

**import** jakarta.xml.bind.annotation.XmlRootElement;

**import**jakarta.xml.bind.annotation.XmlType;

@XmlRootElement

@XmlType(propOrder= {"ma" , "ten" , "tuoi" ,"canNang" ,"gioiTinh", "nguoiChamSoc" , "ngayDen"})

**public** **class** Person {

**private** **int** ma , tuoi;

**private** String ten ,nguoiChamSoc;

**private** **double** canNang;

**private** **boolean** gioiTinh;

**private** Date ngayDen;

* ***Thêm annotaion cho set + get/set thuộc tính + constructor***

**public** Person(**int** ma, String ten, **int** tuoi, **double** canNang, String nguoiChamSoc, **boolean** gioiTinh, Date ngayDen) {

**super**();

**this**.ma = ma;

**this**.ten = ten;

**this**.tuoi = tuoi;

**this**.canNang = canNang;

**this**.nguoiChamSoc=nguoiChamSoc;

**this**.gioiTinh = gioiTinh;

**this**.ngayDen = ngayDen;

}

**public** Person() {

**super**();

};

---------------------------------------

* **Package helper**

**import** java.io.StringReader;

**import** java.io.StringWriter;

**import** jakarta.xml.bind.JAXBContext;

**import** jakarta.xml.bind.Marshaller;

**import** jakarta.xml.bind.Unmarshaller;

**public** **class** XMLConvert<T> {

**private** T type;

**public** XMLConvert(T type) {

**this**.type = type;

}

@SuppressWarnings("all")

**}**

* MÔ HÌNH POINT-TO-POINT(slide 21)

-----------------------------------------------------------------

* **Package app**

**public** **class** App **extends** JFrame {

**private** JPanel contentPane;

**private** JtextField txtTen,txtTuoi,txtCanNang,txtList;

textField\_5;

**private** ArrayList<Person> persons = **new** ArrayList<Person>();

**private** JTextField txtMa;

**public** **static** **void** main(String[] args) {

* Tạo Jframe tự phát sinh

});}

**public** App() {

setTitle("Form\_Sender");

setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

setBounds(100, 100, 836, 525);

contentPane = **new** JPanel();

contentPane.setBorder(**new** EmptyBorder(5, 5, 5, 5));

setContentPane(contentPane);

contentPane.setLayout(**null**);

JLabel lblNewLabel = **new** JLabel("SENDER ");

lblNewLabel.setFont(**new** Font("Times New Roman", Font.***BOLD***, 25));

lblNewLabel.setBounds(350, 24, 117, 42);

contentPane.add(lblNewLabel);

JLabel lblNewLabel\_1 = **new** JLabel("Mã gửi : ");

lblNewLabel\_1.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblNewLabel\_1.setBounds(49, 71, 117, 33);

contentPane.add(lblNewLabel\_1);

JLabel lblTnNgiGi = **new** JLabel("Tên người gửi :");

lblTnNgiGi.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblTnNgiGi.setBounds(49, 114, 145, 33);

contentPane.add(lblTnNgiGi);

JLabel lblTui = **new** JLabel("Tuổi: ");

lblTui.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblTui.setBounds(49, 157, 145, 31);

contentPane.add(lblTui);

JLabel lblCnNng = **new** JLabel("Cân nặng:");

lblCnNng.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblCnNng.setBounds(49, 198, 145, 35);

contentPane.add(lblCnNng);

JLabel lblNgiChmSc = **new** JLabel("Người chăm sóc:");

lblNgiChmSc.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblNgiChmSc.setBounds(49, 243, 145, 31);

contentPane.add(lblNgiChmSc);

JLabel lblNgyn = **new** JLabel("Ngày đến:");

lblNgyn.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblNgyn.setBounds(49, 327, 145, 33);

contentPane.add(lblNgyn);

JLabel lblSPhnT = **new** JLabel("Số phần tử trong danh sách:");

lblSPhnT.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblSPhnT.setBounds(49, 416, 247, 33);

contentPane.add(lblSPhnT);

======================

txtMa = **new** JTextField();

txtMa.setColumns(10);

txtMa.setBounds(202, 71, 509, 33);

contentPane.add(txtMa);

txtTen = **new** JTextField();

txtTen.setColumns(10);

txtTen.setBounds(202, 115, 509, 33);

contentPane.add(txtTen);

txtTuoi = **new** JTextField();

txtTuoi.setColumns(10);

txtTuoi.setBounds(204, 158, 509, 33);

contentPane.add(txtTuoi);

txtCanNang = **new** JTextField();

txtCanNang.setColumns(10);

txtCanNang.setBounds(202, 201, 509, 33);

contentPane.add(txtCanNang);

txtList = **new** JTextField();

txtList.setColumns(10);

txtList.setBounds(306, 418, 407, 33);

contentPane.add(txtList);

textField\_5 = **new** JTextField();

textField\_5.setColumns(10);

textField\_5.setBounds(200, 329, 511, 33);

contentPane.add(textField\_5);

JComboBox comboBox = **new** JComboBox();

comboBox.setFont(**new** Font("Times New Roman", Font.***BOLD***, 17));

comboBox.setBackground(SystemColor.***text***);

comboBox.setForeground(Color.***BLACK***);

comboBox.setBounds(202, 244, 511, 33);

List<String> list = **new** ArrayList<String>();

list.add("Y tá số 1");

list.add("Y tá số 2");

list.add("Y tá số 3");

list.add("Y tá số 4");

**for** (String s : list) {

comboBox.addItem(s);

contentPane.add(comboBox);

JLabel lblNewLabel\_6\_1 = **new** JLabel("Giới tính: ");

lblNewLabel\_6\_1.setFont(**new** Font("Times New Roman", Font.***BOLD***, 20));

lblNewLabel\_6\_1.setBounds(49, 284, 145,33);

contentPane.add(lblNewLabel\_6\_1);

JRadioButton nam = **new** JRadioButton("Nam");

nam.setFont(**new** Font("Times New Roman", Font.***PLAIN***, 20));

nam.setBounds(273, 290, 103, 21);

contentPane.add(nam);

ButtonGroup G = **new** ButtonGroup();

G.add(nam);

JRadioButton nu = **new** JRadioButton("Nữ");

nu.setFont(**new** Font("Times New Roman", Font.***PLAIN***, 20));

nu.setBounds(418, 290, 103, 21);

G.add(nu);

contentPane.add(nu);

===================================

// Xử lý nút gửi đối tượng

JButton btnSenObj = **new** JButton("Send Person");

btnSenObj.setBackground(**new** Color(102, 153, 255));

btnSenObj.setFont(**new** Font("Times New Roman", Font.***BOLD***, 18));

btnSenObj.addActionListener(**new** ActionListener() {@Override

**public** **void** actionPerformed(ActionEvent e) {

**int** ma = Integer.*parseInt*(txtMa.getText().toString());

String ten = txtTen.getText().toString();

**int** tuoi = Integer.*parseInt*(txtTuoi.getText().toString());

**double** cannang = Double.*parseDouble*(txtCanNang.getText().toString());

String chamsoc = comboBox.getSelectedItem().toString();

**boolean** gioiTinh = nam.isSelected();

Date ngay = **new** Date();

Person person = **new** Person(ma, ten, tuoi, cannang, chamsoc, gioiTinh, ngay);

**try** {

sendObj(person);

} **catch** (Exception e2) {}

}});

btnSenObj.setBounds(202, 372, 145, 34);

contentPane.add(btnSenObj);

===================================

// Xu ly nut them vao danh sach

JButton btnAdd = **new** JButton("Add List");

btnAdd.setBackground(**new** Color(255, 0, 0));

btnAdd.setFont(**new** Font("Times New Roman", Font.***BOLD***, 18));

btnAdd.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

**int** ma = Integer.*parseInt*(txtMa.getText().toString());

String ten = txtTen.getText().toString();

**int** tuoi = Integer.*parseInt*(txtTuoi.getText().toString());

**double** cannang = Double.*parseDouble*(txtCanNang.getText().toString());

String chamsoc = comboBox.getSelectedItem().toString();

**boolean** gioiTinh = nam.isSelected();

Date ngay = **new** Date();

Person person = **new** Person(ma, ten, tuoi, cannang, chamsoc, gioiTinh, ngay);

persons.add(person);

// lấy kích thước mảng sau đó chuyển chuỗi rồi add lên số lượng

txtList.setText(persons.size() + "");}});

btnAdd.setBounds(384, 372, 145, 34);

contentPane.add(btnAdd);

===================================

// Xu ly nut gui nhieu doi tuong

JButton btnSendList = **new** JButton("Send List Person");

btnSendList.setBackground(**new** Color(255, 255, 51));

btnSendList.setFont(**new** Font("Times New Roman", Font.***BOLD***, 18));

btnSendList.addActionListener(**new** ActionListener() {@Override

**public** **void** actionPerformed(ActionEvent e) { **for** (Person p : persons) {

**try** { sendObj(p);

} **catch** (Exception e1) {

e1.printStackTrace();

}}

// gửi xong sẽ clear khỏi mảng

persons.clear();

txtList.setText(persons.size() + "");

});

btnSendList.setBounds(537, 372, 176, 34);

contentPane.add(btnSendList);

}}

* Truyền queueSender(slide23)

**void** **sendObj**(Person person) **throws** Exception {

BasicConfigurator.*configure*();

// config environment for JNDI

Properties settings = **new** Properties();

Context ctx = **new** InitialContext(settings);

System.***out***.println("Finished...");

}

}