





Quản lý sách

GIẢNG VIÊN: LÊ PHẠM TUẨN KIỆT

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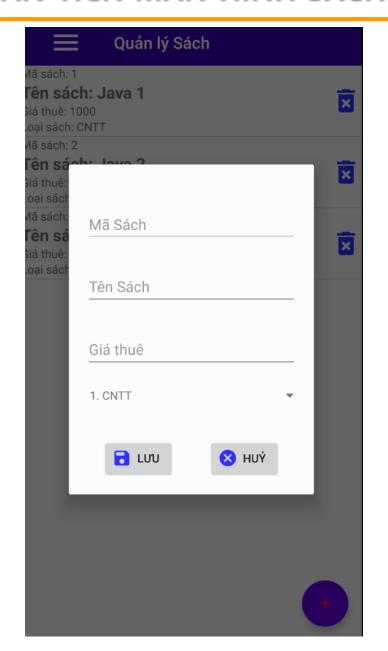
- Kết thúc bài học này bạn có khả năng
 - O Viết mã điều khiển cho màn hình quản lý sách





Sử dụng SachFragment

- ListView: show danh sách Sách (cần custom listview)
- Image: xoá sách (cần AlertDialog xác nhận xoá)
- FloatingButton: mở hộp thoại thêm/sửa sách, bao gồm:
 - Spinner: cho phép chọn loại sách (cần custom spinner).
 - Nút [Lưu]: Lưu sách vào SQLite, đóng hộp thoại.
 - Nút [Huỷ]: đóng hộp thoại.



Tạo adapter và xử lý Code cho spinner Loại sách


```
public class LoaiSachSpinnerAdapter extends ArrayAdapter<LoaiSach> {
    private Context context:
    private ArrayList<LoaiSach> lists;
    TextView tvMaLoaiSach, tvTenLoaiSach;
    public LoaiSachSpinnerAdapter(@NonNull Context context, ArrayList<LoaiSach> lists) {
        super(context, resource: 0, lists);
        this.context=context;
        this.lists=lists;
    @NonNull
    @Override
    public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {...}
    @Override
    public View getDropDownView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {...}
```



Tạo adapter và xử lý Code cho spinner Loại sách

```
public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {
    View v = convertView;
    if (v == null){
        LayoutInflater inflater = (LayoutInflater)
                context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        v = inflater.inflate(R.layout.loai sach item spinner, root: null);
    final LoaiSach item = lists.get(position);
    if(item != null) {
        tvMaLoaiSach = v.findViewById(R.id.tvMaLoaiSachSp);
        tvMaLoaiSach.setText(item.maLoai + ". ");
        tvTenLoaiSach = v.findViewById(R.id.tvTenLoaiSachSp);
        tvTenLoaiSach.setText(item.tenLoai);
    return <u>v</u>;
@Override
public View getDropDownView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {
    View v = convertView;
    if (v == null){
        LayoutInflater inflater = (LayoutInflater)
                context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        v = inflater.inflate(R.layout.loai sach item spinner, root: null);
    final LoaiSach item = lists.get(position);
    if(item != null){
        tvMaLoaiSach = v.findViewById(R.id.tvMaLoaiSachSp);
        tvMaLoaiSach.setText(item.maLoai+". ");
        tvTenLoaiSach = v.findViewById(R.id.tvTenLoaiSachSp);
        tvTenLoaiSach.setText(item.tenLoai);
    return v;
```



```
public class SachAdapter extends ArrayAdapter<Sach> {
   private Context;
    SachFragment fragment;
   private ArrayList<Sach> lists;
    TextView tvMaSach, tvTenSach, tvGiaThue, tvLoai;
    ImageView imgDel;
   public SachAdapter(@NonNull Context context, SachFragment fragment, ArrayList<Sach> lists) {
        super(context, resource: 0, lists);
       this.context=context;
       this.lists=lists;
       this.fragment = fragment;
   @NonNull
   @Override
   public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {...}
```

TẠO ADAPTER VÀ XỬ LÝ CODE

```
public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {
    View v = convertView;
    if (v == null){
        LayoutInflater inflater = (LayoutInflater)
                context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        v = inflater.inflate(R.layout.sach_item, root: null);
    final Sach item = lists.get(position);
    if(item != null){
        LoaiSachDAO loaiSachDAO = new LoaiSachDAO(context);
        LoaiSach loaiSach = loaiSachDAO.getID(String.valueOf(item.maLoai));
        tvMaSach = v.findViewById(R.id.tvMaSach);
        tvMaSach.setText("Mã sách: "+item.maSach);
        tvTenSach = \underline{v}.findViewById(R.id.tvTenSach);
        tvTenSach.setText("Tên sách: "+item.tenSach);
        tvGiaThue = v.findViewById(R.id.tvGiaThue);
        tvGiaThue.setText("Giá thuê: "+item.giaThue);
        tvLoai = v.findViewById(R.id.tvLoai);
        tvLoai.setText("Loai sách: "+loaiSach.tenLoai);
        imgDel=v.findViewById(R.id.imgDeleteLS);
    imgDel.setOnClickListener((view) → {
            fragment.xoa(String.valueOf(item.maSach));
    });
    return v;
```



```
public class SachFragment extends Fragment {
   ListView lv;
   ArrayList<Sach> list;
   FloatingActionButton fab;
   Dialog dialog;
    EditText edMaSach, edTenSach, edGiaThue;
   Spinner spinner;
   Button btnSave, btnCancel;
   static SachDAO dao;
   SachAdapter adapter;
   Sach item;
   LoaiSachSpinnerAdapter spinnerAdapter;
   ArrayList<LoaiSach> listLoaiSach;
    LoaiSachDAO loaisachDAO;
    LoaiSach loaiSach;
   int maLoaiSach, position;
   @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {...}
   protected void openDialog(final Context context, final int type){...}
   public void xoa(final String Id){...}
   void capNhatLv(){...}
   public int validate(){...}
```

@Override

```
public View onCreateView(LayoutInflater inflater, ViewGroup container,
                         Bundle savedInstanceState) {
   // Inflate the layout for this fragment
    View v = inflater.inflate(R.layout. fragment_sach, container, attachToRoot: false);
   lv = v.findViewById(R.id.lvSach);
   fab = v.findViewById(R.id.fab);
   dao = new SachDAO(getActivity());
   capNhatLv();
   fab.setOnClickListener((v) → { openDialog(getActivity(), type: 0); });
   lv.setOnItemLongClickListener((parent, view, position, id) → {
            item = list.get(position);
            openDialog(getActivity(), type: 1);//1 update
            return false;
   });
    return v;
```



```
protected void openDialog(final Context context, final int type){
    //custom dialog
    dialog = new Dialog(context);
    dialog.setContentView(R.layout.sach_dialog);
    edMaSach = dialog.findViewById(R.id.edMaSach);
    edTenSach = dialog.findViewById(R.id.edTenSach);
    edGiaThue = dialog.findViewById(R.id.edGiaThue);
    spinner = dialog.findViewById(R.id.spLoaiSach);
    btnCancel = dialog.findViewById(R.id.btnCacelSach);
    btnSave = dialog.findViewById(R.id.btnSaveSach);
    listLoaiSach = new ArrayList<LoaiSach>();
    loaisachDAO = new LoaiSachDAO(context);
    listLoaiSach = (ArrayList<LoaiSach>) loaisachDAO.getAll();
    spinnerAdapter = new LoaiSachSpinnerAdapter(context,listLoaiSach);
    spinner.setAdapter(spinnerAdapter);
    // lay maLoaiSach
    spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
            // TODO Auto-generated method stub
            maLoaiSach = listLoaiSach.get(position).maLoai;
            Toast.makeText(context, text: "Chon "+listLoaiSach.get(position).tenLoai, Toast.LENGTH_SHORT).show();
        @Override
        public void onNothingSelected(AdapterView<?> parent) {
            // TODO Auto-generated method stub
    });
    //kiem tra type insert 0 hay Update 1
    edMaSach.setEnabled(false);
```

```
//kiem tra type insert 0 hay Update 1
edMaSach.setEnabled(false);
if (type != 0){
    edMaSach.setText(String.valueOf(item.maSach));
    edTenSach.setText(item.tenSach);
    edGiaThue.setText(String.valueOf(item.giaThue));
    for (int \underline{i} = 0; \underline{i} < listLoaiSach.size(); <math>\underline{i}++)
         if (item.maLoai == (listLoaiSach.get(i).maLoai)){
             position = \underline{i};
    Log.i( tag: "demo", msg: "posSach "+position);
    spinner.setSelection(position);
btnCancel.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
         dialog.dismiss();
});
```

```
btnSave.setOnClickListener((v) → {
       item = new Sach();
       item.tenSach=edTenSach.getText().toString();
       item.giaThue=Integer.parseInt(edGiaThue.getText().toString());
       item.maLoai=maLoaiSach;
       if (validate()>0){
            if (type==0){
               //type = 0 (insert)
               if (dao.insert(item)>0){
                    Toast.makeText(context, text: "Thêm thành công", Toast.LENGTH_SHORT).show();
                }else{
                    Toast.makeText(context, text: "Thêm thất bại", Toast.LENGTH_SHORT).show();
            }else {
               //type =1 (update)
                item.maSach = Integer.parseInt(edMaSach.getText().toString());
               if (dao.update(item)>0){
                    Toast.makeText(context, text: "Sứa thành công", Toast.LENGTH_SHORT).show();
                }else {
                    Toast.makeText(context, text: "Sứa thất bại", Toast.LENGTH_SHORT).show();
            capNhatLv();
           dialog.dismiss();
dialog.show();
```

```
public void xoa(final String Id){
    AlertDialog.Builder builder = new AlertDialog.Builder(getContext());
    builder.setTitle("Delete");
    builder.setMessage("Ban co muon xoa khong?");
    builder.setCancelable(true);
    builder.setPositiveButton( text: "Yes", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    dao.delete(Id);
                    capNhatLv();
                    dialog.cancel();
            });
    builder.setNegativeButton( text: "No", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    dialog.cancel();
            });
    AlertDialog alert = builder.create();
    builder.show();
void capNhatLv(){
    list =(ArrayList<Sach>) dao.getAll();
    adapter=new SachAdapter(getActivity(), fragment: this,list);
    lv.setAdapter(adapter);
public int validate(){
    int check = 1;
    if (edTenSach.getText().length()==0 || edGiaThue.getText().length()==0 ) {
        Toast.makeText(getContext(), text: "Ban phải nhập đầy đủ thông ", Toast.LENGTH SHORT).show();
        \underline{\text{check}} = -1;
    return check;
```



- ✓ Phân tích SachFragment
- ☑ Tổ chức mã Controller
- ☑ Viết mã màn hình SachFragment



