项目总结

最近在公司做了一个非常轻量级别的app,不过里面还是有一些知识点,是查了资料之后才会的,现在app基本做完了,整体总结一下。

1.获取当前app的一些基础信息:

```
public static final boolean DEBUG = BuildConfig.DEBUG;

//以下是能获取到的信息
public static final boolean DEBUG = Boolean.parseBoolean("true");
public static final String APPLICATION_ID = "com.fuyizhulao.daily_service";
public static final String BUILD_TYPE = "debug";
public static final String FLAVOR = "";
public static final int VERSION_CODE = 1;
public static final String VERSION_NAME = "1.0.0";
```

- 2.高德地图(具体用法见官网吧,文档很详细了)
- 3.个推(一个推送服务,很好用,同时它的别名机制也很人性化,省着后台再维护一套映射了)
- 4.Bugly(腾讯的一款崩溃统计,异常上报的SDK,非常好配置,非常的好用)
- 5.配置回调类的时候,可以配制成泛型的,非常的方便、灵活

```
public interface NetWorkListener<T> {
    void onSuccess(T netWorkModel);
    void onFail(T netWorkModel);
}
```

- 6.在Fragment中想和Activity通信,可以通过EventBus进行通信,但是也不要过分依赖这个吧,因为当过分依赖之后,整个代码的逻辑会变得异常的复杂,同时发生异常之后,也是非常不好检查的。
- 7.在app中无论一个网络接口出现过几次,最好还是统一的封装起来会比较方便一点。
- 8.将Model专程Json字符串可以用Gson:

9.得到相机的View和控制闪光灯:

```
public class CameraView extends SurfaceView implements SurfaceHolder.Callback, Camera.PreviewCallback

private Camera mCamera;

private int mPreviewRotation = 90;
private int mCamId = Camera.CameraInfo.CAMERA_FACING_BACK;
private PreviewCallback mPrevCb;
private byte[] mYuvPreviewFrame;
private int previewWidth;
private int previewHeight;

private Camera.Parameters params;

public interface PreviewCallback {
    void onGetYuvFrame(byte[] data);
}

public CameraView(Context context) {
    this(context, null);
}

public CameraView(Context context, AttributeSet attrs) {
```

```
super(context, attrs);
public void setPreviewRotation(int rotation) {
   mPreviewRotation = rotation;
public void setCameraId(int id) {
    mCamId = id;
public int getCameraId() {
   return mCamId;
public void setPreviewCallback(PreviewCallback cb) {
   mPrevCb = cb;
   getHolder().addCallback(this);
public void setPreviewResolution(int width, int height) {
   previewWidth = width;
    previewHeight = height;
public boolean startCamera() {
   if (mCamera != null) {
       return false;
    if (mCamId > (Camera.getNumberOfCameras() - 1) || mCamId < 0) {</pre>
       return false;
    mCamera = Camera.open(mCamId);
    params = mCamera.getParameters();
    Camera.Size size = mCamera.new Size(previewWidth, previewHeight);
    mYuvPreviewFrame = new byte[previewWidth * previewHeight * 3 / 2];
    params.setPreviewSize(previewWidth, previewHeight);
    params.setPreviewFormat(ImageFormat.NV21);
    List<String> supportedFocusModes = params.getSupportedFocusModes();
    if (!supportedFocusModes.isEmpty()) {
       if (supportedFocusModes.contains(Camera.Parameters.FOCUS MODE CONTINUOUS PICTURE)) {
            params.setFocusMode(Camera.Parameters.FOCUS MODE CONTINUOUS PICTURE);
    mCamera.setParameters(params);
    mCamera.setDisplayOrientation(mPreviewRotation);
    mCamera.addCallbackBuffer(mYuvPreviewFrame);
   mCamera.setPreviewCallbackWithBuffer(this);
       mCamera.setPreviewDisplay(getHolder());
    } catch (IOException e) {
       e.printStackTrace();
    mCamera.startPreview();
    return true;
public void stopCamera() {
    if (mCamera != null) {
       mCamera.setPreviewCallback(null);
       mCamera.stopPreview();
       mCamera.release();
       mCamera = null;
    }
@Override
public void onPreviewFrame(byte[] data, Camera camera) {
   mPrevCb.onGetYuvFrame(data);
    camera.addCallbackBuffer(mYuvPreviewFrame);
```

```
@Override
public void surfaceChanged(SurfaceHolder holder, int format, int width, int height) {
@Override
public void surfaceCreated(SurfaceHolder arg0) {
   if (mCamera != null) {
            mCamera.setPreviewDisplay(getHolder());
        } catch (IOException e) {
            e.printStackTrace();
    }
public void surfaceDestroyed(SurfaceHolder arg0) {
public void isOpenLight(boolean isOpen) {
    if (isOpen) {
        params.setFlashMode(Camera.Parameters.FLASH MODE TORCH);
        mCamera.setParameters(params);
       params.setFlashMode(Camera.Parameters.FLASH MODE OFF);
       mCamera.setParameters(params);
```

10.Notification

11.沉浸式状态栏

这是一个第三方库,用起来挺方便的,有空应该撸一遍它的源码

compile 'com.readystatesoftware.systembartint:systembartint:1.0.3'

```
android:fitsSystemWindows="true"
android:clipToPadding="true"
```

```
public void setIndicator(TabLayout tabs, int leftDip, int rightDip) {
        Class<?> tabLayout = tabs.getClass();
        Field tabStrip = null;
            tabStrip = tabLayout.getDeclaredField("mTabStrip");
        } catch (NoSuchFieldException e) {
            e.printStackTrace();
        tabStrip.setAccessible(true);
        LinearLayout llTab = null;
        try {
            llTab = (LinearLayout) tabStrip.get(tabs);
        } catch (IllegalAccessException e) {
            e.printStackTrace();
        int left = (int) TypedValue.applyDimension(TypedValue.COMPLEX UNIT DIP, leftDip, Resources.ge
        int right = (int) TypedValue.applyDimension(TypedValue.COMPLEX UNIT DIP, rightDip, Resources.
        for (int i = 0; i < llTab.getChildCount(); i++) {</pre>
            View child = llTab.getChildAt(i);
            child.setPadding(0, 0, 0, 0);
            LinearLayout.LayoutParams params = new LinearLayout.LayoutParams(0, LinearLayout.LayoutPa
            params.leftMargin = left;
            params.rightMargin = right;
            child.setLayoutParams(params);
            child.invalidate();
```

13.验证码倒计时

```
mTimeCount = new TimeCount(60000, 1000);
mTimeCount.start();
```

```
class TimeCount extends CountDownTimer {
    public TimeCount(long millisInFuture, long countDownInterval) {
        super(millisInFuture, countDownInterval);
    }

@Override
    public void onFinish() {// 計时完毕
        mGetCode.setText("恭取验证码");
        mGetCode.setClickable(true);
    }

@Override
    public void onTick(long millisUntilFinished) {// 计时过程
        mGetCode.setClickable(false);//防止重复点击
        mGetCode.setText(String.valueOf(millisUntilFinished / 1000) + "秒后重发");
    }
}
```

14.downloadManager工具类

```
AlertDialog, Builder builder = new AlertDialog, Builder (mContext).setTitle ("温馨提示").setMes
                ("系统下载管理器被禁止, 需手动打开").setPositiveButton("确定", new DialogInterface.OnCli
            @Override
            public void onClick(DialogInterface dialog, int which) {
                dialog.dismiss();
                try {
                   Intent intent = new Intent(Settings.ACTION APPLICATION DETAILS SETTINGS);
                    intent.setData(Uri.parse("package:" + packageName));
                    mContext.startActivity(intent);
                } catch (ActivityNotFoundException e) {
                    Intent intent = new Intent(Settings.ACTION MANAGE APPLICATIONS SETTINGS);
                    mContext.startActivity(intent);
            }
        }).setNegativeButton("取消", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
               dialog.dismiss();
        });
        builder.create().show();
    } else +
        //正常下载流程
        apkName = name;
        DownloadManager.Request request = new DownloadManager.Request(Uri.parse(url));
        request.setAllowedOverRoaming(false);
        //通知栏显示
        request.setNotificationVisibility(DownloadManager.Request.VISIBILITY VISIBLE NOTIFY COMPL
        request.setTitle("test");
        request.setDescription("正在下载中...");
        request.setVisibleInDownloadsUi(true);
        //设置下载的路径
        request.setDestinationInExternalPublicDir(Environment.DIRECTORY DOWNLOADS, apkName);
        //获取DownloadManager
        mDownloadManager = (DownloadManager) mContext.getSystemService(Context.DOWNLOAD SERVICE);
        downloadId = mDownloadManager.enqueue(request);
       mContext.registerReceiver(mReceiver, new IntentFilter(DownloadManager.ACTION DOWNLOAD COM
    }
private BroadcastReceiver mReceiver = new BroadcastReceiver() {
    @Override
    public void on Receive (Context context, Intent intent) {
       checkStatus();
    }
};
  检查下载状态
private void checkStatus() {
    DownloadManager.Query query = new DownloadManager.Query();
    query.setFilterById(downloadId);
    Cursor cursor = mDownloadManager.query(query);
    if (cursor.moveToFirst()) {
        int status = cursor.getInt(cursor.getColumnIndex(DownloadManager.COLUMN STATUS));
        switch (status) {
            //下载暂停
            case DownloadManager.STATUS_PAUSED:
               break;
            //下载延迟
            case DownloadManager.STATUS PENDING:
               break;
            //正在下载
            case DownloadManager.STATUS RUNNING:
               break:
            //下载完成
            case DownloadManager.STATUS SUCCESSFUL:
                installAPK();
                break;
            //下载失败
            case DownloadManager.STATUS FAILED:
                Toast.makeText(mContext, "下载失败", Toast.LENGTH SHORT).show();
                break;
    }
    cursor.close();
```

15.还有一些简单的工具类:

```
public class Util {
     * 将时间戳转换为时间
    public static String stampToDate(String s) {
        String res;
        SimpleDateFormat | simpleDateFormat | new | SimpleDateFormat("yyyy-MM-dd | HH:mm");
        long lt = new Long(s);
        Date date = new Date(lt);
        res = simpleDateFormat.format(date);
        return res;
     * 这个工具类是为了展示出首页那种持续的效果
     * 例如: 12月21日 09:00 - 10:00
    public static String stampAndDurationToDate(long serviceTime, long duration) {
        SimpleDateFormat simpleDateFormat = new SimpleDateFormat("MM月dd日 HH:mm");
        Date date = new Date(serviceTime);
        String myData = simpleDateFormat.format(date);
        Date date2 = new Date(serviceTime + duration * 60 * 1000);
        String myData2 = simpleDateFormat.format(date2);
        return myData + "-" + myData2.split(" ")[1];
     * 这个工具类是为了将时间戳转换成订单上面的时间
     * 例如: 2016-12-21 09:00-10:00
    public static String stampAndDurationToDateForOrder(long serviceTime, long duration) {
        String date1 = stampToDate(String.valueOf(serviceTime));
        String date2 = stampToDate(String.valueOf(serviceTime + duration * 60 * 1000));
        return date1 + "-" + date2.split(" ")[1];
     * bitmap转file
    public static File saveBitmapFile(Bitmap bitmap) {
        File file = new File(Environment.getExternalStorageDirectory().getAbsolutePath()+"/img.png");
        try {
            BufferedOutputStream bos = new BufferedOutputStream(new FileOutputStream(file));
            bitmap.compress(Bitmap.CompressFormat.PNG, 100, bos);
            bos.flush();
            bos.close();
        } catch (IOException e) {
            e.printStackTrace();
        return file;
    }
}
4
```

16.cardView的点击效果

android:foreground="@drawable/card_view_select"