

# Flower Recognition App

This is the README.md from github project <https://github.com/lzwjava/flower-recognition>.

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## Flower Recognition App

This is a flower recognition Android application designed to help users identify flowers by capturing photos and drawing circles to aid in recognition.

### Features:

- **Capture Photos:** Users can take pictures of flowers directly within the app.
- **Drawing Functionality:** Ability to draw circles and annotations on flower images to assist in recognition.
- **Authentication:** Secure user authentication with a login screen.
- **Result Display:** Display recognition results in a user-friendly interface.
- **Material Design:** Implementation of material design principles for a modern and intuitive user experience.

### File Structure:

```
com
  lzw
    flower
      activity
        LoginActivity.java
        PhotoActivity.java
      adapter
        PhotoAdapter.java
      avobject
        Photo.java
      base
        App.java
        ImageLoader.java
        SplashActivity.java
      deprecated
        CameraActivity.java
        Deprecated.java
```

```

draw
    Draw.java
    DrawActivity.java
    DrawFragment.java
    DrawView.java
    HelpBtn.java
    History.java
    Tooltip.java
    ZoomImageView.java

fragment
    RecogFragment.java
    WaitFragment.java

material
    MaterialActivity.java

result
    FlowerAdapter.java
    FlowerData.java
    Image.java
    ResultActivity.java
    ResultFragment.java

service
    PhotoService.java

utils
    BitmapUtils.java
    Crop.java
    ImageListDialogBuilder.java
    Logger.java
    PathUtils.java
    Utils.java

web
    Upload.java
    UploadImage.java
    Web.java

```

## **Components:**

- **Activities:** Contains classes for handling different app activities such as login, photo capture, and splash screen.
- **Adapters:** Handles the display of photos and recognition results.
- **AVObject:** Represents photo objects with associated metadata.

- **Drawing:** Classes related to drawing circles and annotations on flower images.
- **Fragments:** Provides UI components for displaying recognition results and waiting indicators.
- **Material:** Possibly related to implementing material design guidelines.
- **Services:** Handles background tasks and data manipulation related to photos.
- **Utils:** Contains utility classes for various tasks such as image manipulation and logging.

## **Usage:**

1. Clone the repository.
2. Open the project in Android Studio.
3. Build and run the application on an Android device or emulator.

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