

MODEL VIEW PRESENTER (MVP)

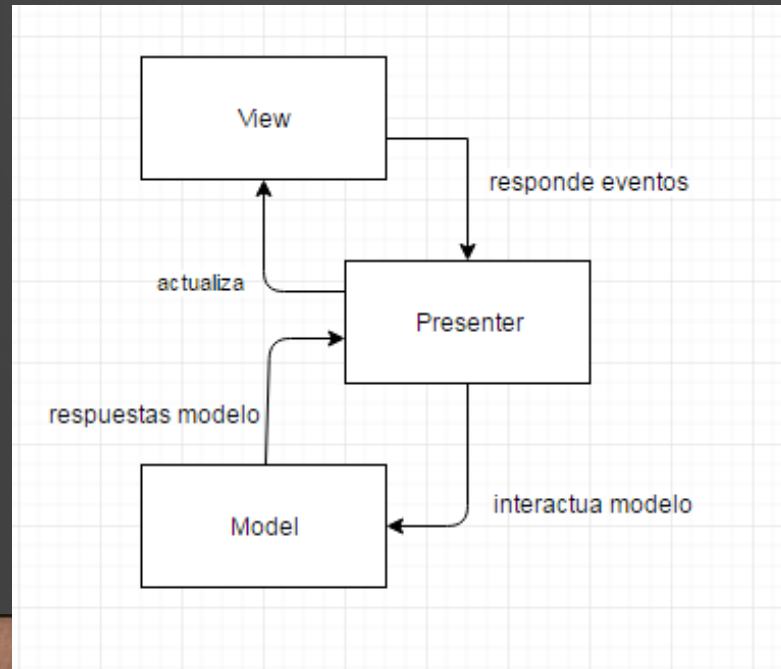
WORKSHOP EQUIPO R

NECESIDAD SEPARAR

- Acoplamiento entre datos y vista: CursorAdapters, ASyncTasks dentro de Activities o Fragments
- Claridad en el código, mantenibilidad
- Como parte de una arquitectura para las aplicaciones Android
- Responsabilidades

QUE ES MVP?

- Patrón para la capa de presentación
- Permite separar la capa de presentación de la lógica



IMPLEMENTACIÓN ANDROID

```
public interface LoginView {  
  
    void showProgress();  
  
    void hideProgress();  
  
    void showMessage(String message);  
}
```

```
public interface Presenter {  
  
    void onResume();  
  
    void onPause();  
  
    void onDestroy();  
}
```

IMPLEMENTACIÓN ANDROID

```
public class LoginPresenter {  
  
    private LoginView loginView;  
  
    public LoginPresenter(){}  
  
    public void setView(@NonNull LoginView loginView) {  
        this.loginView = loginView;  
    }  
  
    public void doLogin(String user, String pass){  
        loginView.showProgress();  
        performLogin(user, pass);  
    }  
  
    void onResume(){  
        if (loginView != null) {  
            loginView.showProgress();  
        }  
    }  
  
    void onPause(){}  
}
```

```
private void performLogin(String user, String pass){  
    AsyncTask<String, Void, String> doLoginTask = new AsyncTask<String, Void,  
String>() {  
        @Override  
        protected void onPreExecute() {  
            super.onPreExecute();  
            loginView.showProgress();  
        }  
        @Override  
        protected String doInBackground(String... params) {  
            String user = params[0];  
            String password = params[1];  
            try {  
                Thread.sleep(3000);  
            } catch (InterruptedException e) {  
                e.printStackTrace();  
            }  
            return "Login Ok!!!";  
        }  
        @Override  
        protected void onPostExecute(String message) {  
            super.onPostExecute(message);  
            loginView.hideProgress();  
            loginView.showMessage(message);  
        }  
    };  
    doLoginTask.execute(user, pass);  
}
```

IMPLEMENTACIÓN ANDROID

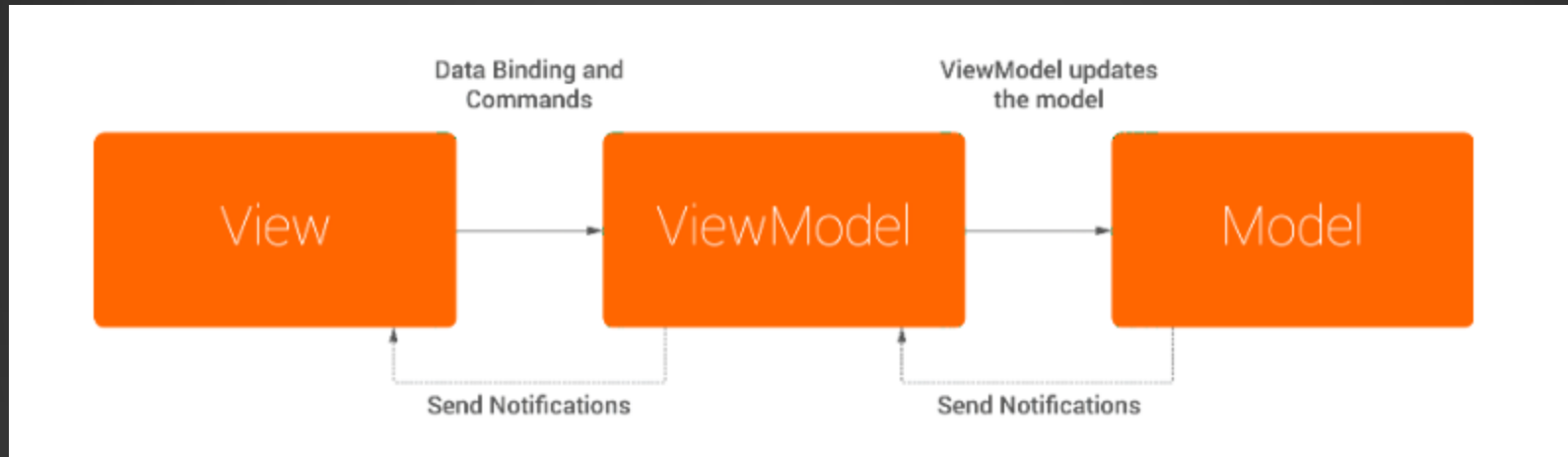
```
public class LinearLayoutActivity extends AppCompatActivity implements LoginView{
    private LoginPresenter loginPresenter;
    @Override
    public void showProgress() {
        if(progressBar!=null){
            progressBar.setVisibility(View.VISIBLE);
        }
    }

    @Override
    public void hideProgress() {
        if(progressBar!=null){
            progressBar.setVisibility(View.GONE);
        }
    }

    @Override
    public void showMessage(String message) {
        Toast toastMessage = Toast
            .makeText(this, message, Toast.LENGTH_LONG);

        toastMessage.show();
    }
}
```


MODEL VIEW VIEW MODEL (MVVM)



REFERENCIAS

- <https://github.com/konmik/konmik.github.io/wiki/Introduction-to-Model-View-Presenter-on-Android>
- <https://github.com/pedrovg/EffectiveAndroidUI>
- <http://antonioleiva.com/mvp-android/>