Shared Preference

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Flow

- For shared preference we require:
  - To edit string.xml file
  - A simple java class with methods to save login status
  - One Activity with Login
  - Second Activity that represents the home page

String.xml changes

- Add the following in your string.xml file

- **<string name="user">admin</string>**
  <string name="pass">admin123</string>

  <string name="login_preference">login_preference</string>
  <string name="login_status_preference">login_status_preference</string>

Add one simple java file, "SharedPreferenceConfig.java"

- Create two variables as shown below:

```
private SharedPreferences sharedPreferences;
private Context context;
```

- Create one constructor of the SharedPreferenceConfig

```
public SharedPreferenceConfig(Context context){
    this.context = context;
    sharedPreferences =
context.getSharedPreferences(context.getResources().
        getString(R.string.login_preference), Context.MODE_PRIVATE);

}
```

- Write a method to write login status:

```
public void writeLoginStatus(boolean status){
    SharedPreferences.Editor editor = sharedPreferences.edit();

editor.putBoolean(context.getResources().getString(R.string.login_status_preference), status);
    editor.commit();
}
```

- Write a method to read login status:

```
public boolean readLoginStatus(){
    boolean status = false;
    status = sharedPreferences.getBoolean(context.getResources().getString(R.string.login_status_preference),
        false);
    return status;

}
```

MainActivity.java

- Make respective objects: //outside onCreate()

```
private  SharedPreferenceConfig sharedPreferenceConfig;
EditText edtName, edtPass;
Button btnLogin;
```

- Bind View with objects: //inside onCreate()

```
edtName = findViewById(R.id.edtUser);
edtPass = findViewById(R.id.edtPass);
btnLogin = findViewById(R.id.btnLogin);
```

- Create an object of SharedpreferenceConfig: //inside onCreate()

```
sharedPreferenceConfig = new
SharedPreferenceConfig(getApplicationContext());
```

In onCreate() of MainActivity.java

- If Login Status is true, Go to next Activity:

- **if(sharedPreferenceConfig.readLoginStatus()){**
  startActivity(new Intent(MainActivity.this, NextActivity.class));
  }

- On button click event: //inside onCreate()

- **btnLogin.setOnClickListener(new View.OnClickListener() {**
  @Override
  public void onClick(View v) {

  String user = edtName.getText().toString();
  String pass = edtPass.getText().toString();

```
• if(user.equals(getResources().getString(R.string.user)) &&
        pass.equals(getResources().getString(R.string.pass))){
        sharedPreferenceConfig.writeLoginStatus(true);
        startActivity(new Intent(MainActivity.this,
  NextActivity.class));
        }
        else {
        Toast.makeText(MainActivity.this, "Invalid Credentials...",
  Toast.LENGTH_SHORT).show();
        edtName.setText(" ");
        edtPass.setText(" ");
        }        }
  });
```

In NextActivity.java

- Create respective variables: //outside onCreate()
  - **private SharedPreferenceConfig sharedPreferenceConfig; Button btnLogout;**

- Bind view:
  - **btnLogout = findViewById(R.id.*btnLogout*);**

- Create object:
  - **sharedPreferenceConfig = new SharedPreferenceConfig(getApplicationContext());**

- Logout onClickListener:
  - ```
    btnLogout.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            sharedPreferenceConfig.writeLoginStatus(false);
            startActivity(new Intent(NextActivity.this, MainActivity.class));
        }
    });
    ```

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