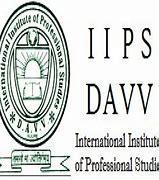
**International Institute of Professional Studies, DAVV Indore**

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**Software design description on**

**An OpenSource software**

**“MELODY MUZIK”**

**https://www.melodymuzik.com/**

* **A music player**

**Version 1**

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# Introduction

Android is an open-source code mobile phone operating system that comes out

by Google. The music player in this project is application software based on

Google Android. Music is one of the best ways to relieve pressure in stressful

modern social life. The purpose of this project is to develop a player which

can play the mainstream file format. To browse and query the storage space

as well as operation of playing can be realised. Meanwhile, this software can

play, pause and select songs with the latest button and next button according to

sets requirements as well as set up songs.

# THE DESIGN PRINCIPLE OF THE ANDROID APPLICATION

Twice the result with half the effort will get if an overall study of the principles

done before the design and follow them in the operation. The principle of software

design mainly includes the following points:

### (1) Reliability

The reliability of the software design must be determined. The reliability of the

software system refers to the ability to avoid a fault that occurred in the process of

system running, as well as the ability to remedy troubles once the fault occurs.

### (2) Reusability

Look for the commonness of similar codes, and come out with a new method abstractly and

reasonably. Pay attention to the generic design.

### (3) Understandability

The understandability of software not only require clear and readable document,

but the simplified structure of software itself, which requires the designer to possesses

keen insight and creativity, and know well about the design objects.

### (4) Simple program

To keep the program simple and clear, good programmers can use simple program

to solve complex problems.

### (5) Testability

Testability means that the created system has proper data collection to conduct

a comprehensive test of the entire system.

### (6) The Open-Closed Principal

The module is extensible but cannot be modified. That is to say, the extension is open to

the existing code to adapt to the new requirements. While modify is

closed to the categories. Once the design is completed, the categories cannot be

Modified.

REQUIREMENT ANALYSIS OF SYSTEM

#### The feasibility analysis:

This section verified that it is feasible to add a music player to the Android system

from the aspects of economic, technical and social feasibility.

#### Economic feasibility:

To design an Android mobile phone music player as long as a computer has the

Android development and the application development of Android is free. In

addition, the mobile phone music player is the basic need for the public. The information that

which functions are necessary for all the consumers, which functions are needed

for some people, and which features are seldom to use is easy to understand. And

a lot of research is eliminated, thus saving the spending. Therefore, the whole

process of development doesn’t need to spend any money that is economic

feasibility.

#### Technical feasibility:

To design a music player which meets the basic requirements, a deep understand

of JAVA language, the Android system architecture, application of framework and

other technical knowledge is needed (framework is the core of the application,

and rules that all the programmers participating in the development must abide

by). Based on the related technical information and resources for Android on the

market, and equipped with technical personnel of technology and the spirit of

willing to learn, the technology is feasible.