

Android Application for Diploma Resources

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Abstract— This paper gives information about the android application MyDiploma which is developed for ease of access of study materials and diploma related resources to the student. The application is based on the android operating system and developed using the android studio IDE and Java/XML languages. The android application MyDiploma provides various resources based upon the Maharashtra state board of Technical Education Curriculum.

Index Terms— Diploma, Android Studio, MSBTE, Android, Java, Xml, Paint.

1 INTRODUCTION

Often students face lack of resources to study since most of the resources are all scattered over the resources outlet. Every student has to visit different channels for their required study materials.

For example, there is a student named Ram and the semester exams are coming close and he needs to make notes. To make proper notes he will require proper resources. For this he needs to visit the library and issue reference books, question papers and model answer papers.

With My Diploma we aim to provide dedicated source of all the study material the student requires.

With My Diploma we provide:

1. Syllabus.
2. Model answers paper.
3. Reference books.
4. Question papers.
5. Result.
6. Hall ticket

2 PURPOSE OF THE PROJECT

To make resources available easily.

With my diploma we tend to provide all resources needed by the students such as

Model answers, Question papers, Syllabus, Results, Hall tickets.

Free study material.

The materials such as reference books which are costly are available for free.

Emphasis on diploma curriculum.

Our app is specially designed for diploma students.

So that students can get readily available study materials.

Through this app students will get all resources at one place easily without any efforts.

3 ARCHITECTURE OF THE PROJECT

Data Flow Diagrams and Entity Relationship diagrams are designed for the better understanding of the android application from the internals.

The data flow diagram shows the internal structure and how the data flows inside the system of the application at the backend.

The Data flow diagram of MyDiploma application shows three levels 0, 1 and 2 levels of the data flow diagram of the android application.
The Entity Relationship diagram shows the entities of the android application and the relationship between the entities.

3.1 DATA FLOW DIAGRAM

Figure 1.0

This figure shows the data flow of level 0 the basic data flow of the android application.

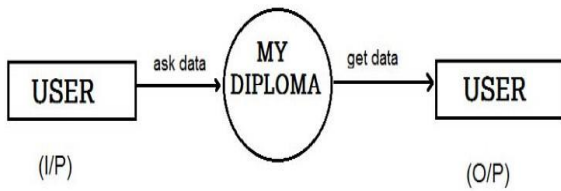


Figure 2.0

This figure shows the data flow of level 1 the interface level data flow of the android application.

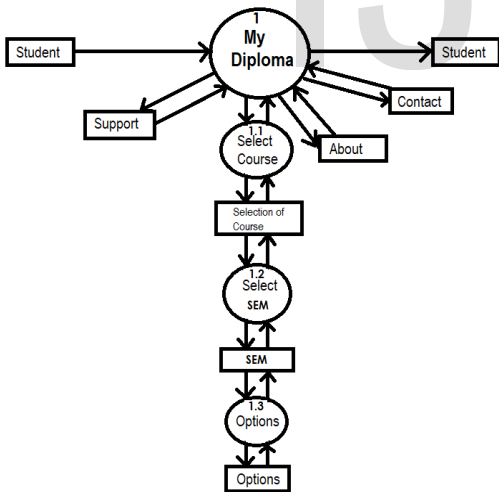
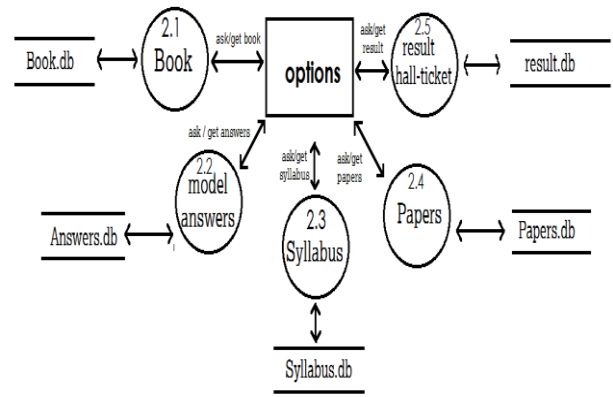


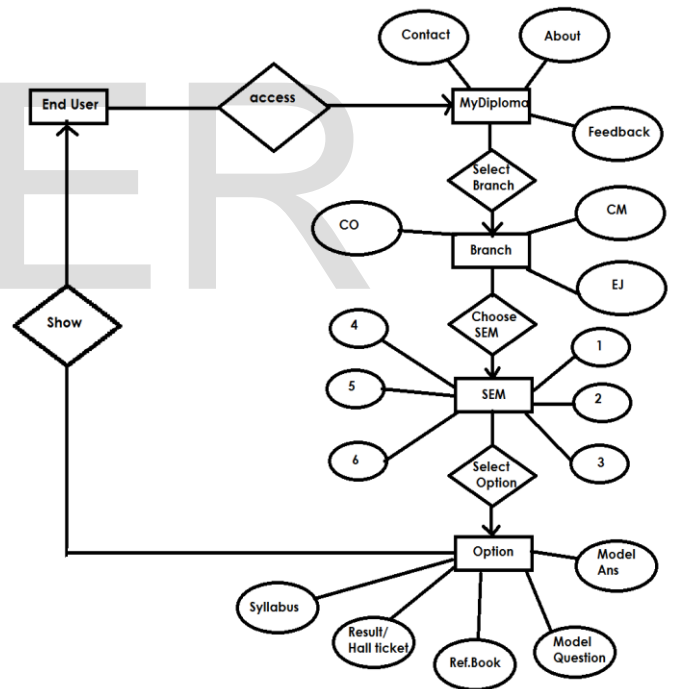
Figure 3.0

This figure shows the data flow of level 2 the advanced data flow of the android application.



3.2 ENTITY RELATIONSHIP DIAGRAM

This figure shows the relationship between the entities of android application.



4 TECHNICAL IMPLEMENTATION

The Android application was developed on the Windows operating system using IDE for android O.S. Various Android Integrated Development Environment are available in the market like Eclipse, Kotlin and Android Studio. This Application was developed using the IntelliJ's

Android Studio which is an IDE released in collaboration with Google for developing the android applications.

The Android application was developed using Java and XML language as android studio supports development in it.

The Graphical images such as buttons, logos, cards were designed using Photoshop and Illustrator from Adobe Inc.

For each stage of android application an activity was created. `<activity android: name=" activity1"> //code </activity>` This is defined in the android manifest. An XML file is created Activity1.xml and java source file Main1Activity.java is created.

5 TOOLS USED FOR IMPLEMENTATION

Java:

Java programming language is used with references from oracle's official java development website.

Android studio:

Android's official sdk tools are used to develop the android application. Android studio is official IDE by google to develop android applications

Xml:

Extended mark-up language (XML) is used to develop the application..

Photoshop:

It is used to design the application.

Adobe illustrator

Used to design the elements of the application.

Paint:

Used for making Diagrams like DFD and ER.

JDK

Official Java tools used by Android studio to program in Java Language.

6 CONCLUSION

Although Thus we have written a paper for the android based application MyDiploma. We have developed this application for providing study resources to diploma students for ease in academics.

This android application has a very clean interface as it is developed using java and xml for programming and designing purposes.

The concept of design used is material design which is very clean and easy to navigate.

We have made this read friendly so that the students can easily read from the Application itself.

Hence we have developed an application so that we can provide collective diploma resources to the students absolutely free on their android device itself.

7 REFERENCES

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