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MICRO PROJECT REPORT

ON

DoIt List

Submitted in May by the group of (02) students

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In

Three Years Diploma Programme in Computer Engineering of Maharashtra

State Board of Technical Education, Mumbai (Autonomous)

ISO 9001:2008 (ISO/IEC-27001:2013)

At

Government Polytechnic Khamgaon

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

Certificate

This is to certify that Mr. / Ms. Tanavi Shailesh Narkhede & Kaushal Sunil Khachane RollNo: 32 & 35 of Sixth **Semester** of **Diploma Programme in Computer Engineering** at Government polytechnic Khamgaon **has** completed the **Micro Project** satisfactorily in Subject **Mobile Application Development (22617)** in the academic year 2021-2022 as per the MSBTE prescribed curriculum of I Scheme.

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Project Guide **Head of the Department** **Principal**

Seal of Institute

Acknowledgement

I would like to express my thanks of gratitude to our respected Principal Dr. S. S. Prabhune as well as our respected Head of Department, Mr. S. V. Paranjape. who gave us the golden opportunity to do this wonderful project on the topic ‘ToDo-List’ for which we have designed the Android Application. I would also like to express my thanks to our course teacher, Prof. V. M. Bande to let us perform some new things and complete this project. I am really thankful to them.

Secondly, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame. They encouraged me for completing the project by performing my best.

This project being guided by our course teacher has taught us What is Android Application how It will developed and we build an effective report. Such projects are beneficial to us to increase our confidence level and practical skills.

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1. ANNEXURE II

1.1 Rationale

Android is an open-source and Linux-based operating system. It was first introduced on Nov 5, 2007. It was originally developed by Android Inc. and subsequently purchased by Google. Basically, Android is thought of as a mobile operating system. But it is not limited to mobile-only. It is currently used in various devices such as mobiles, tablets, televisions, etc. Android provides a rich application framework that allows us to build innovative apps and games for mobile devices in a Java language environment. The Android open-source software stack consists of Java applications running on a Java-based, object-oriented application framework on top of Java core libraries running on a Dalvik virtual machine featuring JIT compilation.

1.2 Aims /Benefits of the Micro- Project

To-Do List these are prioritized lists of all the tasks that you need to carry out. They list everything that you have to do, with the most important tasks at the top of the list, and the least important tasks at the bottom. By keeping such a list, you make sure that your tasks are written down all in one place so you don't forget anything important.

1.3 Course Outcomes Achieved

1. Able to implement UI.
2. Implement database Connectivity with SQLite.

1.4 Literature Review

1. This project is To-Do List an Android Application developed in Android Studio.
2. By Using SQLite database we can easily store user worklist and process it on Application.
3. Unlike storing data into Array Adapter we directly stored it into the SQLite Database so whenever required we can retrieve it.

1.5 Actual Methodology Followed

- Decide project topic.
- Design User Interface(UI) for Project.
- Design a java code for handling event.
- Store note into the SQLite database.
- At last we create Report.

1.6 Actual Resources Use

Sr. no.	Name of Resources/material	Specification	Qty.	Remarks
1	Computer System	i5 Processor with 8 GB of RAM	1	
2	I/O devices	Keyboard, Mouse	1	
3.	Software	JDK, Android Studio.	Each 1	

ABSTRACT

This project is To-Do List an Android Application developed in Android Studio. Android is an open and free operating system based on Linux, which is mainly used for mobile terminals, such as smart phones and panel computer. It is developed by Open Handset Alliance composed of more than 30 technology companies and mobile phone companies. Android tries to allow users experience the best service quality, and allow developers get a more open level for more convenient software developing. Thus mobile applications with more convenient functions can be developed via Android. This paper firstly presents the architecture of Android platform, including the classes and methods in developing. Then we takes audio/video file procurement as an example to introduce the Android program design and development, including classes application, program design, development and analysis.

CHAPTER 1

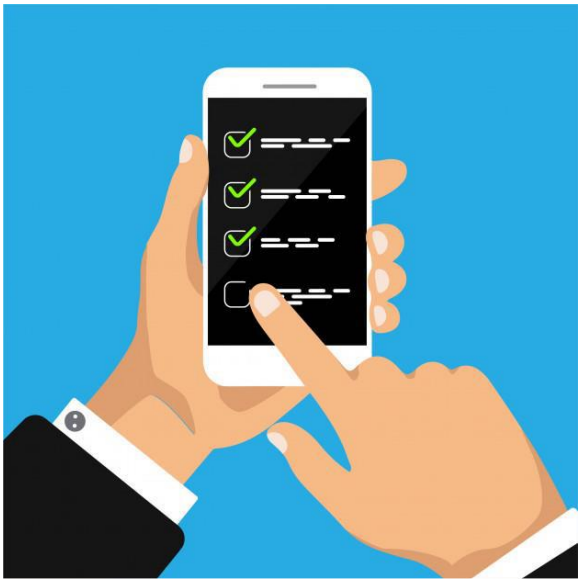
1. Introduction

To-Do List application named “DoIt” is our general-purpose project which can be used for simple home lists or to manage complex multiple task that had done or not. The To-Do list app will contain list of tasks you save. Also you can edit those tasks as your need and after completion of those tasks you can checked the checkbox associated with that task to remember that task has finished. Once your all task has completed and checked then you can delete those entire tasks and you can create new tasks. To create this application we will use concept of To-Do List Application GPK CO6I Page 2 activities, UI controls, SQLite database to save list of tasks and status of the task completed or not, adapter to fetch all data from database to activity screen when user opens the app. We have a lot of choices to help us keep track of daily obligations. A simple list on paper of things “ToDo” is enough for some people. Others prefer to use programs. People have preferences about where they keep track of tasks - with PC utilities (“thick app”), websites (“thin app”), on phone (“mobile”) apps. Some software is very general, with nothing more than a simple list of task names and due dates. Some get more sophisticated with nested tasks, where you need to complete the nested tasks in order to consider the main task complete. Some commercial software is Very sophisticated, and costs a lot - look at Microsoft Project and similar offerings. Some software is focused on specific industries, for construction, manufacturing, business consulting, website management, wedding planning, or even cooking recipes

CHAPTER 2

2. Purpose of an Application

To-Do List project is an application specially built to keep track of work list so tasks need to be done. This application will keep tasks whether the user would be able to enter the task that need to do. Once they are done we can marked it as tasks has been completed. After completing all task we can delete them and also can create new list.



2.1 Features of To-Do List (DoIt) application

- Easy to learn that how this will work
- No more complication as this app will give you good look and feel which will not
- disliking the app
- You can add the tasks that are to be done in a descriptive way.
- You will be able to add as many tasks as you have.
- Once the task is completed, you will be able to remove it by checking the checkbox associated with that task.
- You can edit the task as your need

2.2 Interface Components of an Application

Following are the user interface components that will be shown in our application-

- There will be an add task floating action button on the bottom right to the screen to add new task.
- EditText for entering the task
- Button to save task in the application
- TextView to view the task list
- Checkbox to know state of task that it has been done or not
- Dialog box will prompt when user wants to delete the task
- The tasks that will be added by the users are stored in the recyclerview.

CHAPTER 3

3. System Requirements

Following are the hardware and software requirements we use to develop this app.

3.1 Hardware requirements

In hardware requirement we require all those components which will provide us the platform for the development of the project. The minimum hardware required for the development of this project is as follows:

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- GB RAM minimum, 8 GB RAM recommended +(1 GB for the Android Emulator)
- GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- These all are the minimum hardware requirement required for our project. We want to make our project to be used in any. Others enhancements are according to the needs.

3.2 Software requirements

Software's can be defined as programs which run on our computer it acts as petrol in the vehicle. It provides the relationship between the human and a computer. It is very important to run software to function the computer. Various software's are needed in this project for its development which are as follows:

- Microsoft Windows 7 (64 bit) Operating System
- Android Studio 4.1.3
- Java Development Kit (JDK) 8

We will be using Android Studio as our front hand because it is easier to use and provides features to the users which is used for the development of the project. It includes a complete set of development and debugging tools for Android, and is included with Android Studio. The SDK Tools also consist of testing tools and other utilities required to develop an app

CHAPTER 4

4. Implementation

The To-Do List Android apps in the Java programming language using an IDE called Android Studio. Based on JetBrains' IntelliJ IDEA software, Android Studio is an IDE designed specifically for Android development. In this application we have various android components and built-in classes and interfaces provided by android studio.

4.1 Android Components Used to Develop an Application

4.1.1 Layout Used to Develop an Application

- **Relative Layout:**

Android RelativeLayout used in our application to position of each view can be specified as relative to sibling elements or relative to the parent. It enables you to specify how child views are positioned relative to each other. The position

4.1.2 ViewGroups Used in an Application

- **CardView:**

CardView is used for creating list of tasks inside RecyclerView. CardView is a new widget in Android that is used in our application to display checkbox associates to its relating task along with a specific elevation. This widget can be easily seen in many different Android Apps.

- **RecyclerView:**

After the view holder is created, the RecyclerView binds it to our list of tasks. RecyclerView in our application contains the views (ie. Checkbox and textview of task) corresponding to data.

4.1.3 GUI Components Used in an Application

- **ImageView:**

ImageView is used in application to display an icon on splash activity when every time user starts an application.

- **TextView:**

TextView is used to display list of task and all text to the user.

- **EditText:**

EditText is an overlay over TextView that configures itself to be editable. It is the is used our application to add and edit task.

- **Button:**

Button represents a push button. A Push buttons used to clicked or pressed by the user to perform actions.

- **CheckBox**:

Checkboxes allow the user to select one or more options from a set. A set of checkbox options allows the user to select multiple task that hase been completed.

- **FloatingActionButton:**

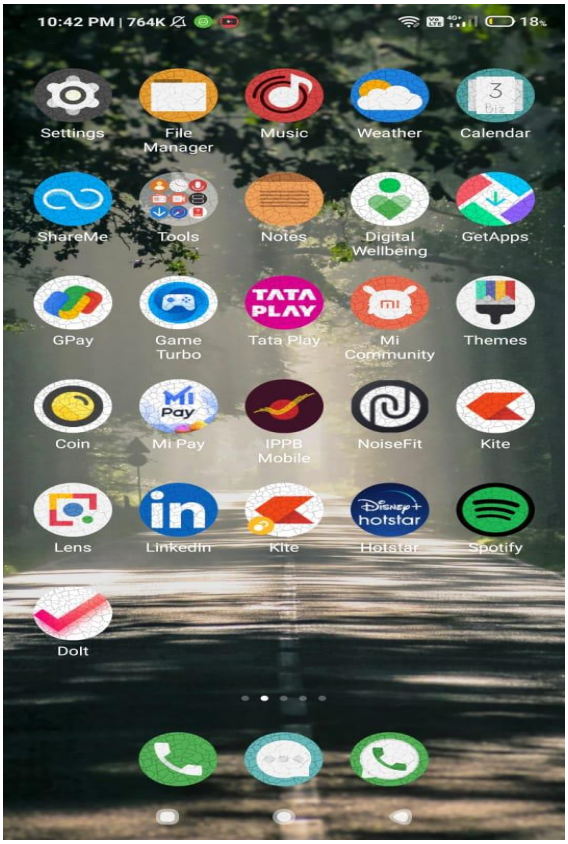
FloatingActionButton also known as FAB is a special case of promoted actions. They are distinguished by a circled icon floating above the UI and have special motion behaviors, related to morphing, launching, and its transferring anchor point. It is used in our application to add new task when user clicks on it.

4.1.4 SQLite Database used in an Application

SQLite is an open-source relational database i.e. used to perform database operations on android devices such as storing, manipulating or retrieving persistent data from the database. It was easy to develop an application because it is embedded in android by default. So, there is no need to perform any database setup or administration task.

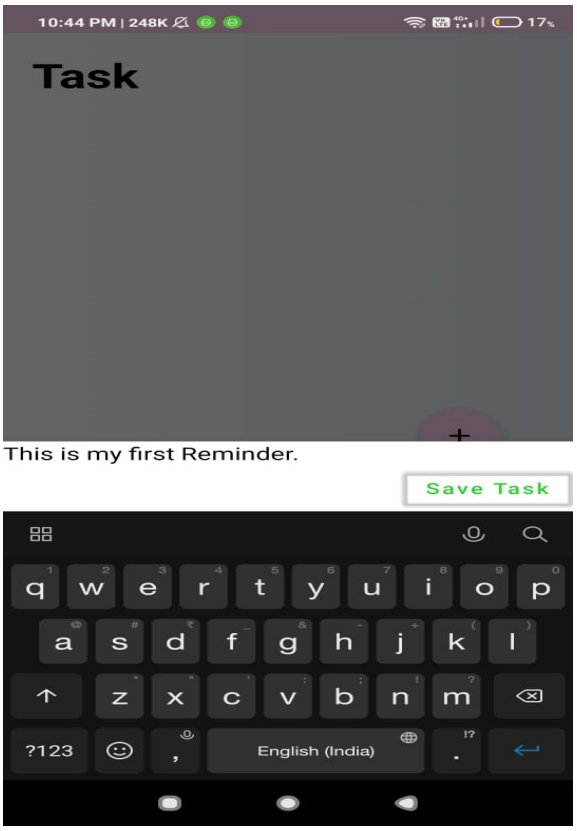
CHAPTER 5

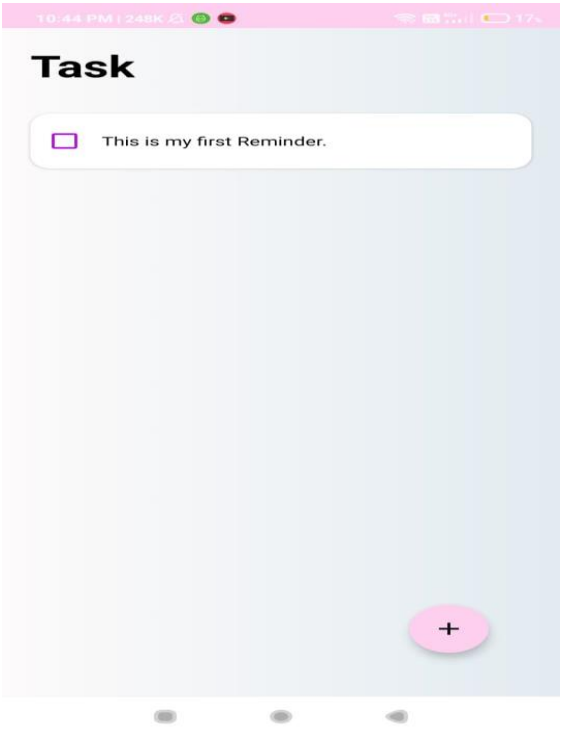
5.1Applications Execution Screenshots

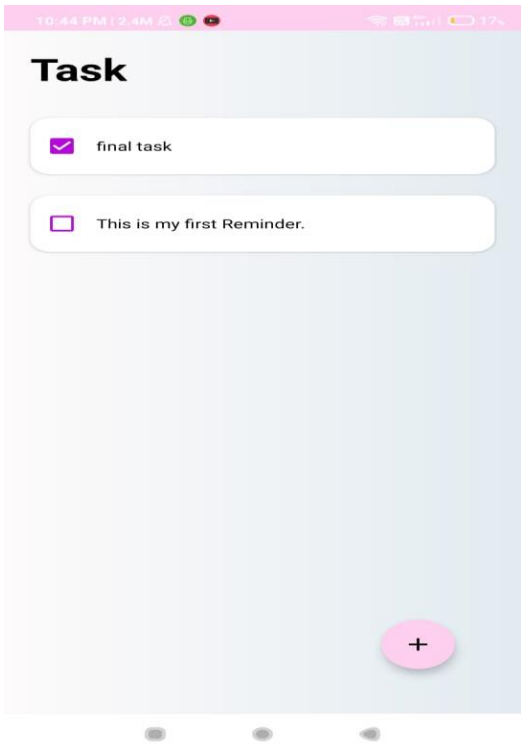



ToDo-List
Developed By:
Tanavi Narkhede (32)
Kaushal Khachane (35)


Task


10:44 PM | 248K
17%
Task
This is my first Reminder.
Save Task
English (India)


Task
This is my first Reminder.


Task
final task
This is my first Reminder.

CHAPTER 6

6.1 Advantages of an Application

- Provides a place for miscellaneous tasks.
- Allows you to prioritize more important tasks.
- Having a cleaner, more concise daily to-do list allows you to feel more productive.
- These tasks will not be forgotten.
- Less waste of time, effort, and ink since constant migration is no longer necessary.

6.2 Disadvantages of an Application

- Gives you an excuse to remove tasks from your to-do list that you SHOULD do, but CAN put off.
- Allows you to avoid these tasks as long as possible.
- Promotes procrastination and task avoidance.
- A lengthy running to-do list can be intimidating and cluttered

CHAPTER 7

Conclusion

The era of mobile technology opens the windows to the android app. In this project we had develop a To-Do List application which helps people to remember their list of task instead of carrying list on paper. The use of pen-paper is vanishing and the smart phones are emerging. It is time to change from conventional method of carrying list of operations to apps which has become the part of our daily routine. It works not only as a list, but also it can work as a reusable.

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