

GLA UNIVERSITY, MATHURA



**TOPIC: MINI PROJECT SYNOPSIS ON
'TIME TRACKER'**

Submitted by:

**Name: Vasu Agarwal
Id: 191500900**

**Name: Prateek Gupta
Id: 191500587**

**Name: Nikhil Gupta
Id: 191500498**

Submitted to:

**Faculty Name: Mr. Piyush Vashistha
Technical Trainer**

DECLARATION

I the undersigned solemnly declare that the project report **Time Tracker** is based on my team work carried out during the course of our study under the supervision of **Mr. Piyush Vashistha, Technical Trainer, Department of Computer Science, GLA UNIVERSITY, MATHURA**. I assert the statements made and conclusions drawn are an outcome of my team research work. I further certify that the work contained in the report is original and has been done by me and my team under the general supervision of my supervisor. We have followed the guidelines provided by the university in writing the report. Whenever we have used materials like data, text from other sources, we have given due credit to them in the text of the report and giving their details in the references. The work has not been submitted to any other Institution for any other degree in this university or any other University of India or abroad.

- 1) Prateek Gupta – 191500587
- 2) Nikhil Gupta – 191500498
- 3) Vasu Agarwal - 191500900

The problem statement:

Time management plays a vital role in improving student's academic performance and achievements. Some observed problems in UUM in the academic activities of students may owe their causes largely to time management. This is when the students do not manage their time properly. Commonly, they may not come or may delay in coming to school. There may be delay in planning for academic activities postponement of time to do assignment and reading for tests and examination. They may be facing interruptions during the lectures hours like receiving lengthy calls, pinging, social networks and mingle with friends. Besides, students have join the extra activities such as event activities, co-curriculum activities, club activities and others. This may be one of the reason that cause student poor in time management.

This project is implemented on Android to facilitate easier access on a popular medium. The project uses JAVA language to provide the app its functionality. Room Database is used as storage where all data is stored. The GUI components are developed using XML.

Time Tracker is an inexpensive, efficient and comfortable way for students to easily manage their time.

INTRODUCTION

Using a time management app is one of the easiest ways to get more of something we wish we all had: productivity. From to-do lists and calendar reminders to shopping lists and meetings, it is easy to get overwhelmed with the number of places we keep reminders and tasks. Thanks to time management apps, you can easily keep track of everything in one place, not only helping you reach goals faster, but also saving you time in the long run.

While time management apps aren't new, some of the technology and accessibility are, giving new meaning to the phrase, "There's an app for that." Whether you are a manager hoping to assign employees tasks or a mom who manages the calendar for the entire family, there is a time management app out there with functionality built with you in mind. Here we rounded up the best time management apps available, all with the goal of making you more productive, so that you spend less time planning and more time doing (especially if that means more time for yourself).

About the Project:

Project is on time management application. The purpose of our app 'Time Tracker' is to manage time for different tasks to help students to schedule their day. User can see all the tasks he/she had entered on the front page in the form of recycler view which fetches data from database. For Database,

We have used Room Database in our application. Room Database is used to store data in user's phone internal storage. Start time which user entered at that time alarm will ring with the help of Broadcast receiver class. And with the help of Pending Intent the alarm will ring on the exact time that the user had set. Our Project will provide user a better UI experience

Primary Reason to choose this project

- Many students find it difficult to manage their time. So, our app will provide platform to schedule their task that will help them in managing their time. This application helps students to utilize their time in efficient.
- A lot of people believe they cannot reach their dreams, travel to exotic locations, land their dream jobs, finish their projects before the deadline, get enough sleep every night, and spend enough time with loved ones because they don't have enough time. It's not limited time that's the problem, it's **bad time management**.
- Users want better UI and app that looks attractive, so to provide users a good experience in studying and not get bored while seeing UI.
- Improve your performance.
- Produce better work.
- Deliver work on time.
- Reduce your stress.
- Boost your confidence.

The Main Objective of the Project:

As all of us know that time is money so to save time and use it effectively is the Main Objective of this project. This app manages time so that the student may not need to waste his/her time useless work. A lot of people believe they cannot reach their dreams, travel to exotic locations, land their dream jobs, finish their projects before the deadline, get enough sleep every night, and spend enough time with loved ones because they don't have enough time. It's not limited time that's the problem, it's **bad time management**. Users want better UI and app that looks attractive, so to provide users a good experience in studying and not get bored while seeing UI, Improve your performance, Produce better work, Deliver work on time, Reduce your stress, Boost your confidence. By providing attractive UI users will get attracted towards it.

Feasibility study:

A feasibility study is an analysis that considers all of a project's relevant factors—including economic, technical, legal, and scheduling considerations—to ascertain the likelihood of completing the project successfully.

Whether a project is feasible or not can depend on several factors, including the project's cost and return on investment, meaning whether the project generated enough revenue or sales from consumers.

However, a feasibility study isn't only used for projects looking to measure and forecast financial gains. In other words, feasible can mean something different, depending on the industry and the project's goal. For example, a feasibility study could help determine whether a hospital can generate enough donations and investment dollars to expand and build a new cancer center.

Although feasibility studies can help project managers determine the risk and return of pursuing a plan of action, several steps and best practices should be considered before moving forward.

- Interoperability and Flexibility
- Cost effectiveness
- Support and Training
- Ease of Use
- Scalability
- Sustainability

Future Scope

Initially, our application provides planning of tasks and scheduling our day. For further modifications we can provide stats of the particular task that user have done which tells how much time user have spent on that task. We will add calendar and store each day task in database.

Working Methodology of the Project

App will first open a page which shows all the tasks and a floating button by clicking on that user can add new task. After clicking on floating button, dialog box will appear which contains three views first contains starting time, second task name and third ending time. After clicking on start time, a time picker dialog will open which allows user to select time in 24-hour format and same with clicking on end time. Then according to start time, alarm is set and when that time comes alarm rings. If the app is closed or we are using another app then also alarm will ring. Alarm rings by the broadcast receiver and the alarm is set by alarm manager.

Details about the Hardware and the Software

System requirements-

Supported Operating System - Microsoft Windows 7/8/10/11

Software required – Google Firebase, Android Studio, JDK

Technology Implemented – Front-end and Back-end

Technology Browser – Google Chrome

Hardware requirements –

For Android Studio - Minimum 4GB RAM, IDE, Android emulator, Android SDK, Minimum 2GB of disk space free.

Processor – Intel i3 or above.

Listing out Technologies –

Frontend - Android emulator, XML, Time Picker.

Backend - Room Database, Java, Alarm Manager.

What contribution would the project make and where?

Time management application helps you prioritize your tasks so that you ensure you have enough time available to complete every project. The quality of your work increases when you're not rushing to complete it ahead of a fast approaching deadline. This app improves the users day and user can use its time more efficiently than previous.

This application is used where user is self motivated in managing its time and searching for time management application. It can be used where user passes a lot of time in unnecessary tasks.

Scope for extension into a major project:

Initially, our application provides planning of tasks and scheduling our day. For further modifications we can provide stats of the particular task that user have done which tells how much time user have spent on that task. We will add calender and store each day task in database.

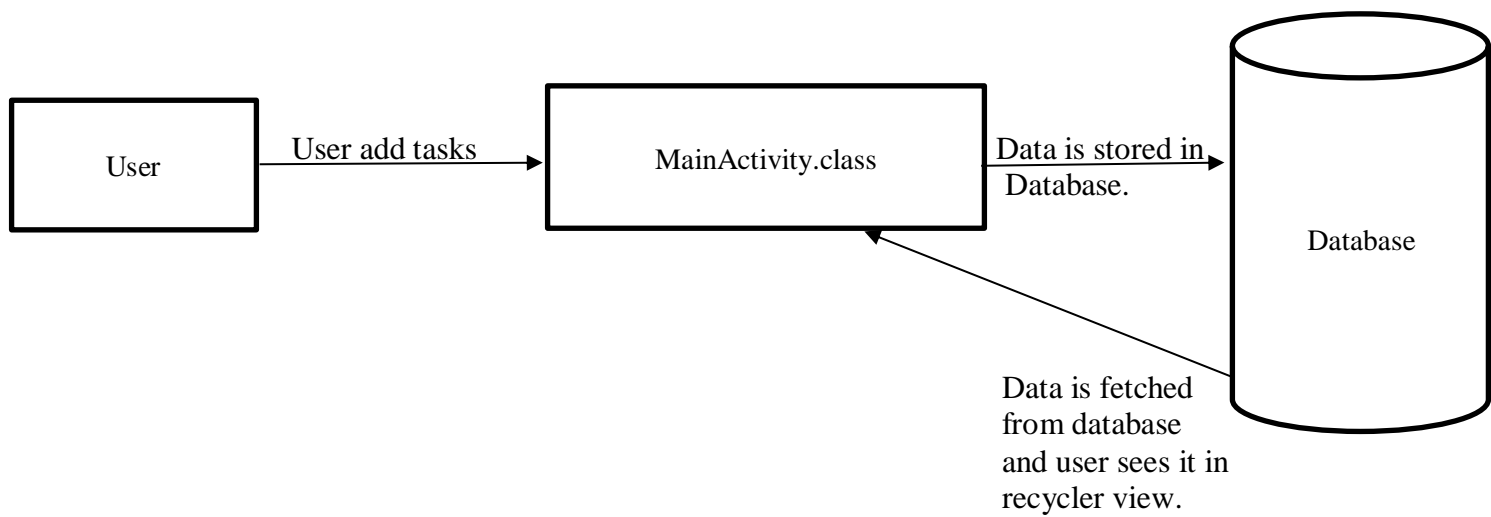
Module Description

1. First module contains activity that contains a list of all tasks and its starting and ending time and also a floating button to add task.
2. Second module contains a dialog box which will be seen after clicking on floating button. There are three views 2 textview and 1 edittext. It also contains add button by clicking on which data gets added to database.
3. On clicking on textview it opens time picker from which we can pick time.
4. When we click on add button alarm is set on start time that we have entered which is received by broadcast reciever class.

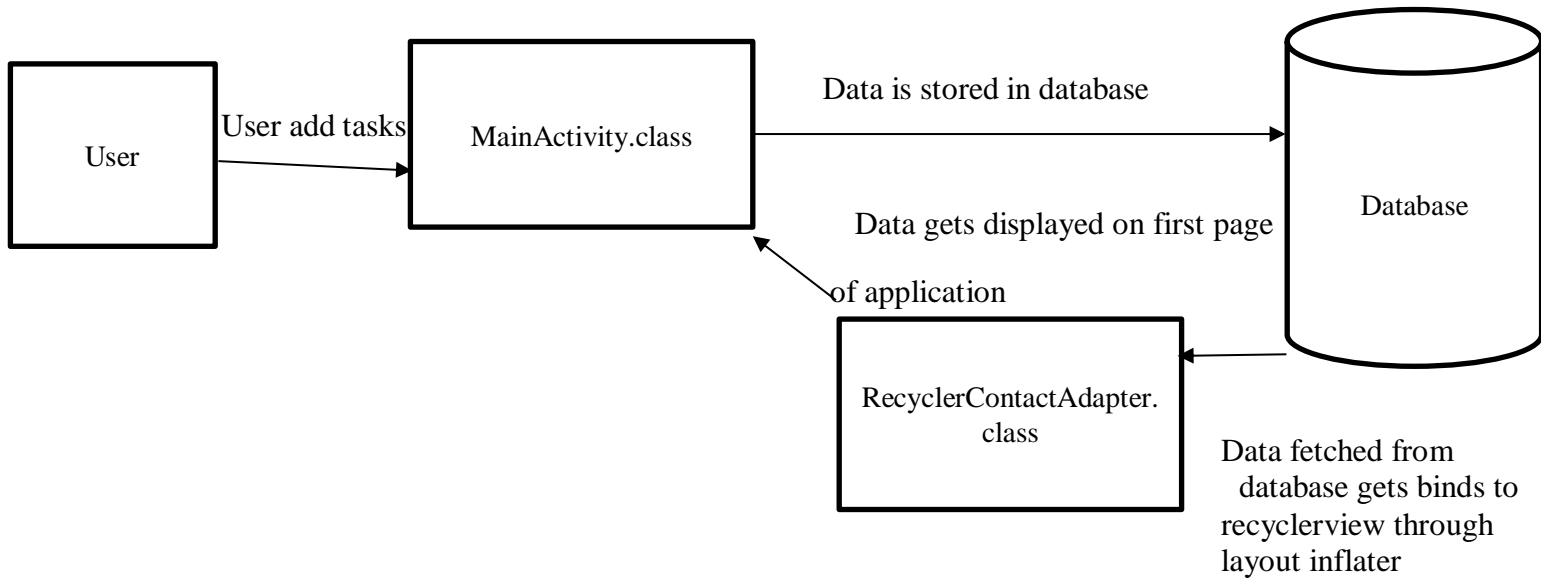
Data Flow Diagrams

DFD: - A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

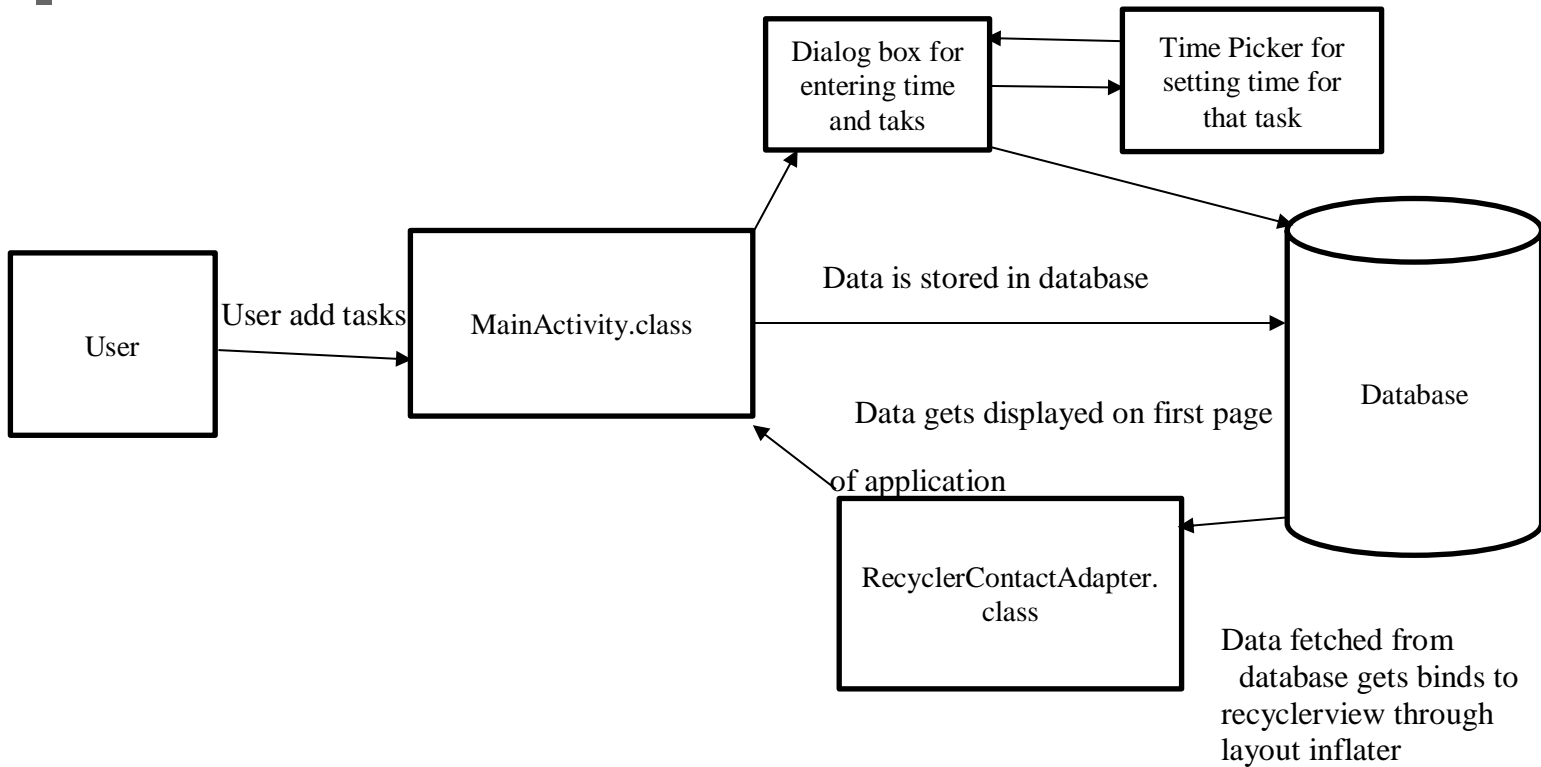
0 Level DFD: -



1 level DFD: -



2 level DFD



Conclusion:

This project has brought a positive impact in the lives of students and working professionals. It helped user in managing their time and effectively use their day. Users are more relaxed and stress free. After using this app users are productive in their task and complete everything on time without any delay.

It has become easy for students to study for their and academics and chill out with their friends as they utilize their time in right manner. This project also helped users in reminding of tasks that they forget as it contains alarm service which rings at the start time of that task.

References

- 1.) <https://developers.google.com/android>
- 2.) <https://www.w3schools.com/>
- 3.) <https://www.javatpoint.com/>