Task Manager

About:

"Task Manager" is an Android Application where users can save tasks with description and get an alarm with the task details.

Features Details:

All features details of this app, 'Task Manager' is describing bellow,

1. Task

1.1. Add Task

By clicking the add button navigate to Add Task Fragment. Users have to fill the task details as title, description, date, and time. Users can not set a task for a past date or time schedule. Task saves in Room Database.

1.2. Show Task List

Home page will show all tasks from the database. Every task item shows title, description, day of week, day of month, month of year, time, menu, and status.

1.3. <u>Update Task</u>

From the task list by clicking the menu, users can update task details as title, description, date, and time.

1.4. <u>Complete Task</u>

From the task item menu ,users can update task status completed.

1.5. <u>Delete Task</u>

From the task item menu the user can delete tasks.

2. Alarm

2.1. Add Alarm

After adding a task, this system will set an alarm with the alarm manager. Every alarm intent has a different id which is equal with task id.

2.2. Alarm Ringing

There is a broadcast receiver which receives alarm action, then starts AlarmActivity. This activity will play an alarm ring. There is a close button, by clicking this button finish this activity. There will also show the event details.

2.3. <u>Update Alarm</u>

When a user updates any task's date time, this system will delete the previous alarm by its id, and set a new one.

2.4. Delete Alarm

When a task is deleted, or completed, this system will delete the alarm for that task.

3. <u>Calendar</u>

3.1. Show Calendar

In the home page there is a calendar icon, by clicking this popup a dialog with calendar view.

3.2. Show Events in Calendar

All events will be shown in the calendar view with a particular date.

3.3. Show Events Name by Daily Basis

By clicking a calendar date there will be shown all events on that day.

3.4. Clicking Event Title

By clicking an event there will be shown task details dialog with title, description, day of week, day of month, month of year, time, menu, and status. Here also users can delete or update events.

Using Tools:

All using tools and third party api's are described bellow,

1. Room Database

For save task data using Room Database

2. Alarm Manager

For set alarm using Alarm manager Service

3. Broadcast Receiver

For receive alarm intent using Broadcast Receiver

4. <u>MVVM</u>

For data processing using MVVM design pattern.

5. Adapter

For task data show, using adapter pattern.

6. Navigation Graph

For fragment navigation using nav graph

7. Compact Calendar View

Using that api for custom calendar view. Com.github.sundeepk:compact-calendar-view:3.0.0

8. <u>Date Time Converter</u>

Com. jake whart on. three tenabp: three tenabp: 1.2.4

This api is used for date converter in low level android versions.

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Managing all dat	e and time formatting was a little change for me. Also with
the calendar view with	event show.