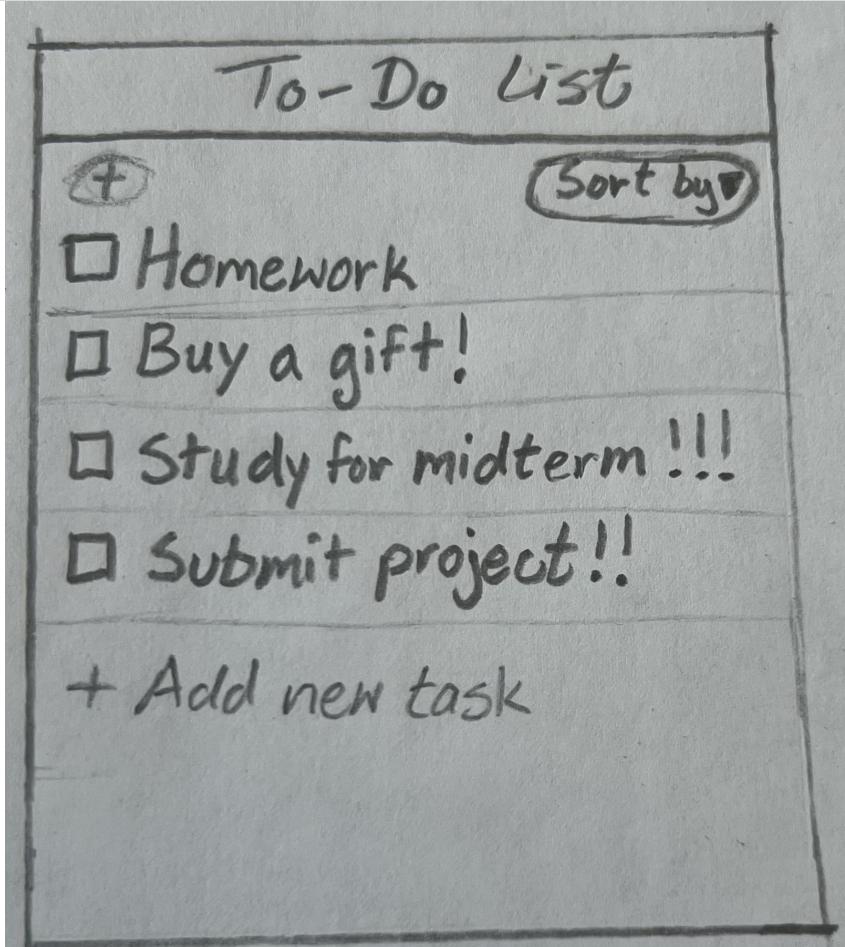
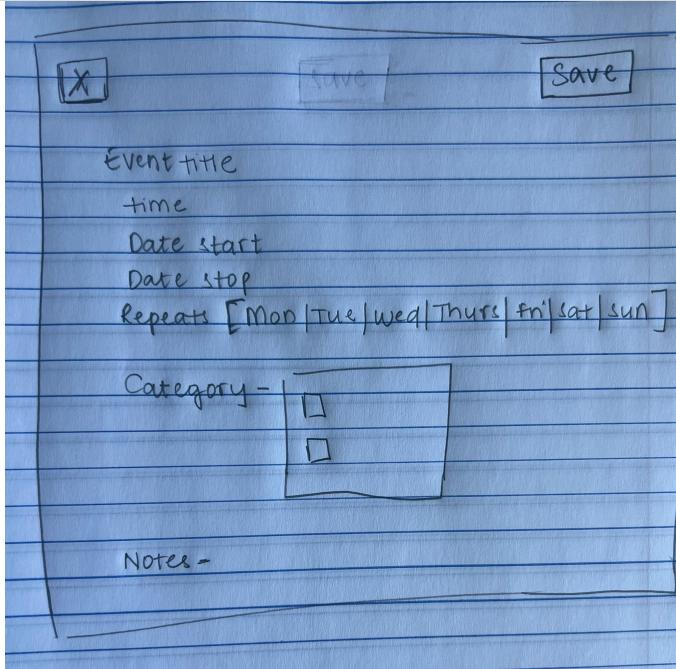
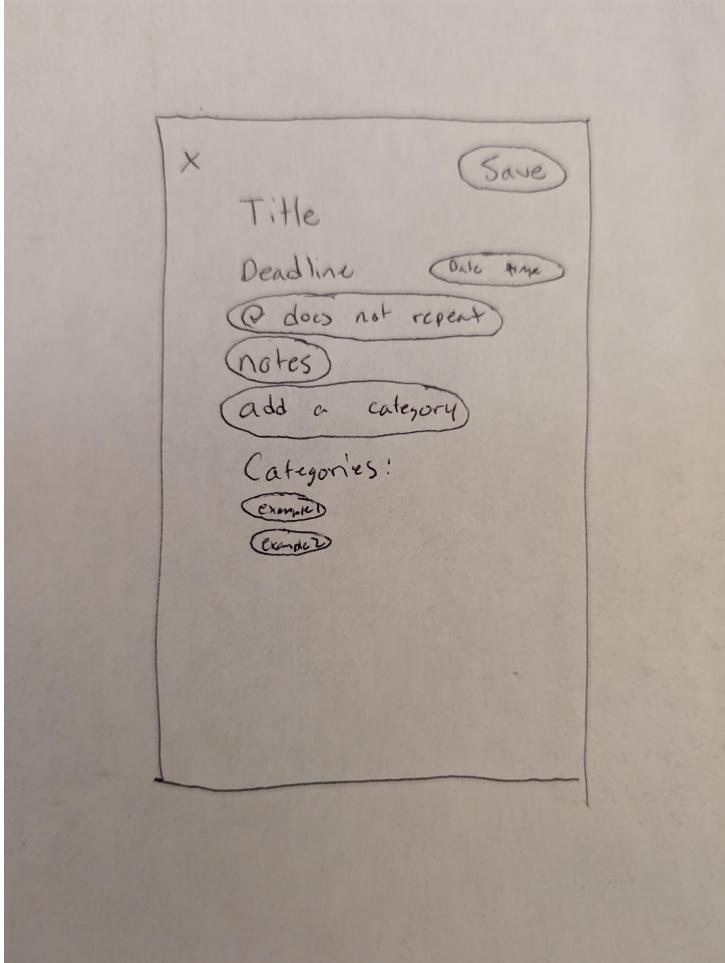


	Requirement:	Requirement Document:																																																																													
1	Create a basic GUI layout using Kivy and KivyMD for the Calendar (Month View) (UI only)	<p style="text-align: center;"><i>month</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">sunday</th><th style="text-align: center;">monday</th><th style="text-align: center;">tuesday</th><th style="text-align: center;">wednesday</th><th style="text-align: center;">thursday</th><th style="text-align: center;">friday</th><th style="text-align: center;">saturday</th></tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td style="text-align: center;">1</td><td style="text-align: center;">2</td><td style="text-align: center;">3</td><td style="text-align: center;">4 <input type="checkbox"/> homework</td></tr> <tr> <td></td><td></td><td></td><td style="text-align: center;">5</td><td></td><td></td><td></td></tr> <tr> <td></td><td style="text-align: center;">6</td><td style="text-align: center;">7</td><td style="text-align: center;">8 * fall break</td><td style="text-align: center;">9</td><td style="text-align: center;">10 * birthday <input type="checkbox"/> buy a gift!</td><td style="text-align: center;">11 <input type="checkbox"/> study for midterm</td></tr> <tr> <td></td><td style="text-align: center;">12</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td style="text-align: center;">13</td><td style="text-align: center;">14 * midterm exam</td><td style="text-align: center;">15</td><td style="text-align: center;">16 * meeting</td><td style="text-align: center;">17</td><td style="text-align: center;">18</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">19</td></tr> <tr> <td></td><td style="text-align: center;">20 <input type="checkbox"/> submit project</td><td style="text-align: center;">21</td><td style="text-align: center;">22 * holiday</td><td style="text-align: center;">23</td><td style="text-align: center;">24 <input type="checkbox"/> work</td><td style="text-align: center;">25 * club event</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">26</td></tr> <tr> <td></td><td style="text-align: center;">27</td><td style="text-align: center;">28</td><td style="text-align: center;">29 * pay day!</td><td style="text-align: center;">30</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	sunday	monday	tuesday	wednesday	thursday	friday	saturday				1	2	3	4 <input type="checkbox"/> homework				5					6	7	8 * fall break	9	10 * birthday <input type="checkbox"/> buy a gift!	11 <input type="checkbox"/> study for midterm		12							13	14 * midterm exam	15	16 * meeting	17	18							19		20 <input type="checkbox"/> submit project	21	22 * holiday	23	24 <input type="checkbox"/> work	25 * club event							26		27	28	29 * pay day!	30									
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2	Create a basic GUI layout using Kivy and KivyMD for the To-do list (List View) (UI only)	 <p>A hand-drawn sketch of a To-Do List application interface. The title "To-Do List" is at the top. Below it is a button with a plus sign (+). To the right is a button labeled "Sort by". The main area contains four items in a list view:</p> <ul style="list-style-type: none"><input type="checkbox"/> Homework<input type="checkbox"/> Buy a gift!<input type="checkbox"/> Study for midterm !!!<input type="checkbox"/> Submit project !! <p>At the bottom left, there is a placeholder "+ Add new task".</p>

	Requirement:	Requirement Document:
3	Create a basic GUI layout using Kivy and KivyMD for the Event Screen (adding or editing an event (from calendar view)) (UI only)	 <p>The sketch illustrates a user interface for adding or editing an event. At the top, there are three buttons labeled 'X', 'Save /', and 'Save'. Below these, the interface is divided into several sections: 'Event title' (with a placeholder 'time'), 'Date start', 'Date stop', and 'Repeats' (listing days of the week: Mon Tue wed Thurs fri sat sun). A 'Category' section shows a box containing two small square icons. Finally, a 'Notes -' section is at the bottom.</p>

	Requirement:	Requirement Document:
4	Create a basic GUI layout using Kivy and KivyMD for the Task Screen (adding or editing a task (from list view) (UI only))	 <p>A hand-drawn sketch of a mobile application interface for adding or editing a task. The interface is contained within a rectangular frame. At the top left is a small 'X' icon. At the top right is a circular button labeled 'Save'. Below the save button is a section labeled 'Title'. To the right of 'Title' is another circular button labeled 'Date / time'. Below 'Date / time' is a button labeled '② does not repeat'. Below '② does not repeat' is a button labeled 'notes'. Below 'notes' is a button labeled 'add a category'. Below 'add a category' is a section labeled 'Categories!'. Under 'Categories!' are two circular buttons labeled 'Example1' and 'Example2'.</p>

	Requirement:	Requirement Document:
5	<p>Implement a unified data structure to handle both calendar events and to-do tasks. Should handle: (title, time, location, notes, priority (High, Medium, Low), deadline, event/task, active?, categories)</p>	<pre> classDiagram class Recurrence { -recurrenceID -endDate -frequency -interval -dayOfWeek -creationDate -lastUpdateDate } class Item { -itemID -itemName -notes -categoryID -recurrenceID -creationDate -lastUpdateDate } class Category { -categoryID -categoryName -color -creationDate -lastUpdateDate } class Event { -startTime -location -creationDate -lastUpdateDate } class Task { -isComplete -deadline -priority -creationDate -lastUpdateDate } Recurrence "0..1" -- "1" Item Category "0..1" -- "0..*" Item Event "1" -- "1" Item Task "1" -- "1" Item </pre> <p>The diagram illustrates a unified data structure for managing events and tasks. It features a central Item class with attributes: itemID, itemName, notes, categoryID, recurrenceID, creationDate, and lastUpdateDate. This class is associated with a Recurrence class (multiplicity 0..1) and a Category class (multiplicity 0..1). Additionally, there are inheritance relationships from Event and Task classes to the Item class (multiplicity 1).</p>

	Requirement:	Requirement Document:
6	Implement local data storage using SQLite for storing calendar events and to-do tasks, that ensures that data persists between app sessions by loading stored data when the app is launched.	<pre> classDiagram class Recurrence { LastUpdateDate Interval EndDate ID Frequency DayOfWeek CreationDate } class Item { ID Name Notes CreationDate LastUpdateDate } class Category { LastUpdateDate Color ID Name CreationDate } class Event class Task Recurrence "0..1" --> "1" Item : has Item "0..*" --> "0..1" Category : is in Item < -- Event Item < -- Task </pre> <p>The diagram illustrates the data model for a calendar application. It features five main entities: Recurrence, Item, Category, Event, and Task. The Recurrence entity contains attributes like LastUpdateDate, Interval, EndDate, ID, Frequency, DayOfWeek, and CreationDate. The Item entity contains attributes such as ID, Name, Notes, CreationDate, and LastUpdateDate. The Category entity includes attributes like LastUpdateDate, Color, ID, Name, and CreationDate. The Event and Task entities inherit from the Item entity. Relationships are defined as follows: Recurrence has one Item (multiplicity 0..1 to 1), and Item can be associated with multiple Categories (multiplicity 0..* to 0..1). Item is the superclass for both Event and Task.</p>