A MATERIAL DESIGN STUDY APP

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INTRODUCTION

- The **Study App** is a simple and intuitive mobile application designed to help students manage their study tasks efficiently.
- Built using **Kotlin**, **Room Database**, and **RecyclerView**, this app provides essential features for task management, such as adding tasks, tracking deadlines, and marking tasks as completed.
- With a user-friendly interface and core functionalities, this app serves as a practical tool to stay organized and meet academic deadlines.
- This app is ideal for students who want a straightforward tool to manage their study schedule and keep track of tasks efficiently.
- The app sends reminders about upcoming tasks and deadlines to help users stay on , ensuring they never miss a deadline.

DESCRIPTION:

1. **Purpose**: A simple app to manage study tasks with features like adding, viewing, and tracking tasks.
2. **Room Database**: Stores tasks locally with a title, deadline, and completion status.
3. **RecyclerView**: Displays tasks in a list, sorted by deadline.
4. **Add Task**: Users can add tasks with a title, deadline, and description.
5. **Mark as Completed**: Users can mark tasks as completed by tapping on them.

- Task Management: Easily create, update, and delete your study tasks.
- Reminder Notifications: Set reminders for your study sessions to stay on track.
- Progress Tracker: Visualize your study progress with task completion statistics.
- Study Planner: Plan your study schedule and set goals to stay organized. Dark Mode: Switch to dark mode for a more comfortable study experience at night.
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PROGRAM:

```
package com.example.studyapp
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material3.Card
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat.startActivity
import com.example.studyapp.ui.theme.StudyAppTheme
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
```

```
super.onCreate(savedInstanceState)
        setContent {
            StudyApp()
        }
    }
}
@Composable
fun StudyApp() {
    Column(modifier = Modifier
        .fillMaxSize()
        .verticalScroll(rememberScrollState())) {

        // Title
        Text(
            text = "Study Material",
            color = Color(0xFFFFA500), // Orange color
            fontSize = 30.sp,
            modifier = Modifier
                .padding(16.dp)
                .align(Alignment.CenterHorizontally)
        )
```

```
// Cards for each course/topic
StudyCard(
    imageResource = R.drawable.img_1,
    courseTitle = "Course 1",
    topicTitle = "Topic 1",
    targetActivity = MainActivity2::class.java
)
Spacer(modifier = Modifier.height(16.dp))
StudyCard(
    imageResource = R.drawable.img_2,
    courseTitle = "Course 2",
    topicTitle = "Topic 2",
    targetActivity = MainActivity3::class.java
)
Spacer(modifier = Modifier.height(16.dp))
StudyCard(
    imageResource = R.drawable.img_3,
    courseTitle = "Course 3",
    topicTitle = "Topic 3",
    targetActivity = MainActivity4::class.java
)
Spacer(modifier = Modifier.height(16.dp))
```

```
        StudyCard(
            imageResource = R.drawable.img_4,
            courseTitle = "Course 4",
            topicTitle = "Topic 4",
            targetActivity = MainActivity5::class.java
        )
    }
}
@Composable
fun StudyCard(
    imageResource: Int,
    courseTitle: String,
    topicTitle: String,
    targetActivity: Class<*>
) {
    Card(
        modifier = Modifier
            .fillMaxWidth()
            .padding(16.dp)
            .clickable {
                // Use Intent to navigate to the target activity
                val intent = Intent(LocalContext.current, targetActivity)
                startActivity(LocalContext.current, intent, null)
            },
```

```
    elevation = 8.dp
) {
    Column(
        modifier = Modifier
            .fillMaxWidth()
            .padding(16.dp),
         horizontalAlignment = Alignment.CenterHorizontally
    ) {
        Image(
            painter = painterResource(id = imageResource),
            contentDescription = null,
            modifier = Modifier
                .fillMaxWidth()
                .height(180.dp)
                .padding(bottom = 8.dp)
        )
        Text(
            text = courseTitle,
            color = Color(0xFFFFA500), // Orange
            fontSize = 16.sp,
            modifier = Modifier.padding(bottom = 4.dp)
        )
```

```
            Text(
                text = topicTitle,
                fontSize = 20.sp,
                fontWeight = androidx.compose.ui.text.font.FontWeight.Bold,
                modifier = Modifier.align(Alignment.CenterHorizontally)
            )
        }
    }
}
@Preview(showBackground = true)
@Composable
fun DefaultPreview() {
    StudyAppTheme {
        StudyApp()
    }
}
```

Output screen :

demo link:

https://drive.google.com/file/d/1dnuj4DcOwB-U9hVWrcZi3FZQyvMD4OT0/view?usp=drivesdk