Week 3 Assignment Note App using Roomdb Dyutin R 20BCG10060

Main Activity

```
package com.project.noteapp.feature note.presentation
class MainActivity : ComponentActivity() {
   override fun onCreate(savedInstanceState: Bundle?) {
       super.onCreate(savedInstanceState)
       setContent {
                    val navController = rememberNavController()
```

AddEditNoteViewModel

```
mutableStateOf(Note.noteColors.random().toArgb())
                        noteContent.value = noteContent.value.copy(
    fun onEvent(event: AddEditNoteEvent) {
            is AddEditNoteEvent.EnteredTitle -> {
                noteTitle.value = noteTitle.value.copy(
            is AddEditNoteEvent.ChangeTitleFocus -> {
                            noteTitle.value.text.isBlank()
            is AddEditNoteEvent.ChangeContentFocus -> {
```

AddEditNoteScreen

```
package com.project.noteapp.feature_note.presentation.add_edit_note
import androidx.compose.animation.Animatable
import androidx.compose.animation.core.tween
import androidx.compose.foundation.background
import androidx.compose.foundation.border
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.shape.CircleShape
import androidx.compose.material.*
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Save
import androidx.compose.runtime.Composable
import androidx.compose.runtime.remember
import androidx.compose.runtime.remember
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.draw.clip
import androidx.compose.ui.draw.shadow
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.graphics.toArgb
```

```
navController: NavController,
viewModel: AddEditNoteViewModel = hiltViewModel()
val scope = rememberCoroutineScope()
LaunchedEffect(key1 = true) {
            is AddEditNoteViewModel.UiEvent.SaveNote -> {
                navController.navigateUp()
Scaffold(
        FloatingActionButton(
```

```
Column (
        .fillMaxSize()
        .padding(16.dp)
                modifier = Modifier
                            Color.Black
   Spacer(modifier = Modifier.height(16.dp))
    TransparentHintTextField(
            viewModel.onEvent(AddEditNoteEvent.EnteredTitle(it))
```

GetNotes

```
import com.project.noteapp.feature_note.domain.repository.NoteRepository
import com.project.noteapp.feature_note.domain.util.NoteOrder
import com.project.noteapp.feature_note.domain.util.OrderType
       noteOrder: NoteOrder = NoteOrder.Date(OrderType.Descending)
it.title.lowercase() }
                        is NoteOrder.Date -> notes.sortedBy { it.timestamp
                        is NoteOrder.Color -> notes.sortedBy { it.color }
                        is NoteOrder.Title -> notes.sortedByDescending {
it.title.lowercase() }
                        is NoteOrder.Date -> notes.sortedByDescending {
it.timestamp }
                       is NoteOrder.Color -> notes.sortedByDescending {
it.color }
```

```
}
}
```

Add Note

DeleteNote

```
package com.project.noteapp.feature_note.domain.use_case
import com.project.noteapp.feature_note.domain.model.Note
import com.project.noteapp.feature_note.domain.repository.NoteRepository

class DeleteNote(
    private val repository: NoteRepository
) {
    suspend operator fun invoke(note: Note) {
        repository.deleteNote(note)
    }
}
```

NoteDao

```
package com.project.noteapp.feature_note.data.data_source

import androidx.room.Dao
import androidx.room.Delete
import androidx.room.Insert
import androidx.room.OnConflictStrategy
import androidx.room.Query
import com.project.noteapp.feature_note.domain.model.Note
import kotlinx.coroutines.flow.Flow
```

```
@Dao
interface NoteDao {
    @Query("SELECT * FROM note")
    fun getNotes(): Flow<List<Note>>

    @Query("SELECT * FROM note Where id = :id")
    suspend fun getNoteById(id: Int): Note?

@Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertNote(note: Note)

@Delete
    suspend fun deleteNote(note: Note)
}
```

Note

```
package com.project.noteapp.feature_note.domain.model

import androidx.room.Entity
import com.project.noteapp.ui.theme.BabyBlue
import com.project.noteapp.ui.theme.LightGreen
import com.project.noteapp.ui.theme.RedOrange
import com.project.noteapp.ui.theme.RedPink
import com.project.noteapp.ui.theme.Violet

@Entity
data class Note(
   val title: String,
   val content: String,
   val color: Int,
   @PrimaryKey val id: Int? = null
){
   companion object{
     val noteColors = listOf(RedOrange, LightGreen, Violet, BabyBlue, RedPink)
   }
} class InvalidNoteException(message: String): Exception(message)
```

NoteOrder

```
package com.project.noteapp.feature_note.domain.util

sealed class NoteOrder(val orderType: OrderType) {
    class Title(orderType: OrderType): NoteOrder(orderType)
    class Date(orderType: OrderType): NoteOrder(orderType)
    class Color(orderType: OrderType): NoteOrder(orderType)

fun copy(orderType: OrderType): NoteOrder {
    return when(this) {
        is Title -> Title(orderType)
        is Date -> Date(orderType)
        is Color -> Color(orderType)
```

```
}
}
}
```

Noteltem

```
import androidx.compose.ui.graphics.drawscope.clipPath
fun NoteItem(
       Canvas(modifier = Modifier.matchParentSize()) {
               color = Color(note.color),
           modifier = Modifier
                .fillMaxSize()
                .padding(16.dp)
                .padding(end = 32.dp)
```

```
maxLines = 1,
    overflow = TextOverflow.Ellipsis,
    fontWeight = FontWeight.Bold
)
Spacer(modifier = Modifier.height(8.dp))
Text(
    text = note.content,
    style = MaterialTheme.typography.bodyl,
    color = MaterialTheme.colors.onSurface,
    maxLines = 10,
    overflow = TextOverflow.Ellipsis
)

IconButton(
    onClick = onDeleteClick,
    modifier = Modifier.align(Alignment.BottomEnd)
) {
    Icon(
        imageVector = Icons.Default.Delete,
        contentDescription = "Delete note",
        tint = MaterialTheme.colors.onSurface
    )
}
```