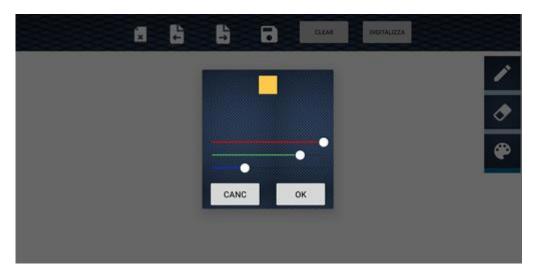
DialogColor -1



- Questo è un Fragment che estende la classe DialogFragment
- DialogColor permette all'utente di scegliere il colore della penna per disegnare sulla lavagna, tramite seekbar, combinando la tabella rgb



DialogColor -2

```
class ColorDialog : DialogFragment() {
  private var colorImageView: ImageView? = null
  private var redValue : Int = 0
  private var greenValue : Int = 0
  private var blueValue : Int = 0
  private var colors : Int = Color.BLACK
  private var colorListener: (colors : Int) -> Unit = {
  private var cancelListener: () -> Boolean ={
    true
  private lateinit var binding: ChooseColorDialogBinding
  companion object{
    fun getInstance(): ColorDialog{
       var instance : ColorDialog? = null
       if(instance == null){
         instance = ColorDialog()
       return instance
```

DialogColor -3



```
override fun onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?): View {
  binding = ChooseColorDialogBinding.inflate(inflater)
  colorImageView = binding.ColorPicker
  colorImageView!!.setBackgroundColor(Color.BLACK)
  isCancelable = false
  setSeek()
  return binding.root
override fun onViewCreated(view: View, savedInstanceState: Bundle?) {
  binding.ColorPicker
  binding.seekBarB
  binding.seekBarG
  binding.seekBarR
  setSeek()
  binding.btnOk.setOnClickListener{
    colorListener(colors)
    dismiss()
  binding.btnCanc.setOnClickListener{
    if(cancelListener())
      dismiss()
fun setOnColorSelected(listener: (color: Int)-> Unit){
  this.colorListener=listener
fun setOnCancelSelected(listener: () -> Boolean){
  cancelListener = listener
```

Gestione della seekbar -1



- Per gestire il cambiamento di valore della seekbar bisogna eseguire override dei metodi:
 - onProgressChanged(

seekBar: SeekBar,

progress: Int,

fromUser: Boolean)//segnala il cambiamento del livelli

onStartTrackingTouch(

seekBar: SeekBar?) //segnala inizio del tocco da parte dell'utente

onStopTrackingTouch(

seekBar: SeekBar?) //segnala fine del tocco da parte dell'utente

Gestione della seekbar -2



```
private fun setSeek(){
 val seekBarR = binding.seekBarR
 val seekBarG = binding.seekBarG
 val seekBarB = binding.seekBarB
 seekBarR.setOnSeekBarChangeListener(mChangeListener)
 seekBarG.setOnSeekBarChangeListener(mChangeListener)
  seekBarB.setOnSeekBarChangeListener(mChangeListener)
private val mChangeListener: SeekBar.OnSeekBarChangeListener = object :
 SeekBar.OnSeekBarChangeListener {
  override fun onProgressChanged
    seekBar: SeekBar,
    progress: Int,
    fromUser: Boolean
    val viewId = seekBar
    when (viewId) {
      binding.seekBarR -> redValue = progress
      binding.seekBarG -> greenValue = progress
      binding.seekBarB -> blueValue = progress
    colors = Color.rgb(redValue, greenValue, blueValue)
    colorImageView!!.setBackgroundColor(colors)
  override fun onStartTrackingTouch(seekBar: SeekBar?) { }
  override fun onStopTrackingTouch(seekBar: SeekBar?) { }
```

Creazione del dialog



```
binding.btnPickColor.setOnClickListener{
 val colorPick = ColorDialog.getInstance()
 var colore: Int
 colorPick.setOnColorSelected {
    colore = it
    binding.whiteboard.drawingMode = DrawingMode.DRAW
    binding.selected2.setBackgroundColor(ContextCompat.getColor(this,R.color.unselected))
    binding.selected.setBackgroundColor(ContextCompat.getColor(this,R.color.selected_blue))
    binding.selected3.setBackgroundColor(ContextCompat.getColor(this,R.color.unselected))
    setColor(colore)
 colorPick.setOnCancelSelected {
    binding.whiteboard.drawingMode = DrawingMode.DRAW
    binding.selected2.setBackgroundColor(ContextCompat.getColor(this,R.color.unselected))
    binding.selected.setBackgroundColor(ContextCompat.getColor(this,R.color.selected_blue))
    binding.selected3.setBackgroundColor(ContextCompat.getColor(this,R.color.unselected))
    true
 colorPick.show(supportFragmentManager,"ColorDialog")
```

PenDialog



```
penTouch = 0
binding.btnPen.setOnClickListener{
  binding.whiteboard.drawingMode= DrawingMode.DRAW
  binding.whiteboard.isEnabled = true
  penTouch++
 val penPick = PenDialog.getInstance()
 var value: Int
  penPick.setOnStrokeSelected {
    penTouch = 1
   value = it
    setStroke(value)
 if(penTouch==2)
    penPick.show(supportFragmentManager,"PenDialog")
```

TextResultActivity -1



- Una volta creata una nota abbiamo la possibilità tramite un menu di scegliere se modificarla, salvarla, copiarla, o cancellarla
- Inoltre ci sono 3 diverse features:
 - Traduzione
 - Salvare in formato pdf
 - Metterla tra i preferiti

TextResultActivity -2



```
class TextResultActivity : AppCompatActivity() {
override fun onCreate(savedInstanceState: Bundle?) {
  super.onCreate(savedInstanceState)
  binding = ActivityTextResultBinding.inflate(layoutInflater)
  setContentView(binding.root)
  note = intent.getParcelableExtra("result") ?: Note("","","",System.currentTimeMillis(),false)
  textResult = note.text
  language = note.language
  originalText=textResult
  whiteboard = intent.getParcelableExtra("whiteboard") ?: DigitalizedWhiteboards()
  val ordinal = intent.getIntExtra("type",TextResultType.NOT_SAVED.ordinal)
  type = when(ordinal){
    TextResultType.SAVED.ordinal -> TextResultType.SAVED
    TextResultType. EDITABLE. ordinal -> TextResultType. EDITABLE
    else -> TextResultType.NOT SAVED
  initializeDB()
  setUI()
```

Creazione del menu -1



```
override fun onCreateOptionsMenu(menu: Menu?): Boolean {
  menuInflater.inflate(R.menu.text result menu,menu)
  this.menu=menu!!
  setType(menu)
  return super.onCreateOptionsMenu(menu)
private fun setType(menu: Menu?){
  var itSave: MenuItem? = null
  var itDelete: MenuItem? = null
  var itUndo: MenuItem? = null
  for (item in menu!!.children){
    when(item.itemId){
      R.id.it delete -> itDelete=item
      R.id.it save -> itSave=item
      R.id.it undo -> itUndo=item
  when(type){
    TextResultType.SAVED -> {
      itDelete!!.isVisible=true
      itSave!!.isVisible=false
      itUndo!!.isVisible=false
    TextResultType.NOT SAVED -> {
      itDelete!!.isVisible=false
      itSave!!.isVisible=true
      itUndo!!.isVisible=false
    TextResultType. EDITABLE ->{
      itDelete!!.isVisible=false
      itSave!!.isVisible=true
      itUndo!!.isVisible=true
```

Creazione del menu -2



```
override fun onOptionsItemSelected(item: MenuItem): Boolean
{
    when(item.itemId){
        R.id.it_save -> { }
        R.id.it_editable->{ }
        R.id.it_undo -> { }
        R.id.it_delete -> { }
        R.id.it_copy -> { }
        return super.onOptionsItemSelected(item)
}
```

Salvare la nota



```
CoroutineScope(Dispatchers.IO).launch {
  val directoryList = dao.loadDirectories()
  CoroutineScope(Dispatchers.Main).launch {
    val dialog = MakeDirectoryDialog.getInstance()
    dialog.setDirectoryList(directoryList)
    if (type == TextResultType.NOT SAVED) {
      dialog.setOnDirectorySelected { directory: String, title: String ->
         note.text = textResult
         note.language = language
         note.directory = directory
         note title = title
         CoroutineScope(Dispatchers.IO).launch {
           dao.insertNote(note)
```

Editare nota



Prima di poter modificare la nota bisogna salvarla

```
if(type==TextResultType.NOT_SAVED){
    Toast.makeText(this,getString(R.string.not_saved_edit),Toast.LENGTH_LONG).show()
}
....
if (editable) {
    type = TextResultType.EDITABLE
    binding.editTextTextMultiLine.isEnabled = true
    setType(menu)
}
```

Ritornare alla nota originale



```
R.id.it_undo -> {
    binding.editTextTextMultiLine.text.clear()
    binding.editTextTextMultiLine.text.append(originalText)
    textResult=originalText
}
```





```
CoroutineScope(Dispatchers.IO).launch {
  dao.deleteNote(note)
    CoroutineScope(Dispatchers.Main).launch {
      dialogInterface.cancel()
      finish()
  }
}
```

Copiare la nota



```
R.id.it_copy -> {
  val clipboard = getSystemService(Context.CLIPBOARD_SERVICE) as ClipboardManager
  val clip = ClipData.newPlainText("note",textResult)
  clipboard.setPrimaryClip(clip)
```

Mettere la nota tra i preferiti





- Una feature che troviamo è quella di salvare le nostre note preferite per trovarle più facilmente nella sezione dedicata
- Nel bottone indicato apparirà la stella piena (salvata tra i preferiti), altrimenti solo contorno della stella

Salvare la nota tra i preferiti

