Développement d'Application Mobile - Flybirds

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Présentation Projet Développement Mobile

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Plan de l'exposé

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- 2 Plateforme Android
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Introduction

- Titre : Application Flybirds
- Outils utilisés : Android Studio, xCode, overleaf
- Langage : Java et Swift

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MainActivity

```
public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       getWindow(),setFlags(WindowManager,LayoutParams,FLAG FULLSCREEN, WindowManager,LayoutParams,FLAG FULLSCREEN);
       findViewById(R.id.play).setOnClickListener((view) - {
               startActivity(new Intent( packageContext: MainActivity.this, GameActivity.class)):
       TextView highScoreTxt = findViewById(R.id.highScoreTxt);
       final SharedPreferences prefs = getSharedPreferences( name: "game", MODE_PRIVATE);
       highScoreTxt.setText("HighScore: " + prefs.getInt( key: "highScore", delValue: 0));
       isMute = prefs.getBoolean( key: "isMute", defValue: false);
       final ImageView volumeCtrl = findViewById(R.id.volumeCtrl);
           volumeCtrl.setImageResource(R.drawable.ic volume off black 24dp);
           volumeCtrl.setImageResource(R.drawable.ic volume up black 24dp):
       volumeCtrl.setOnClickListener((v) → {
                   volumeCtrl.setImageResource(R.drawable.ic volume off black 24dp):
                    volumeCtrl.setImageResource(R.drawable.ic volume up black 24dp);
               SharedPreferences.Editor editor = prefs.edit():
               editor.putBoolean("isMute", isMute):
               editor.apply();
```

Encadré

<u>∢□→ ∢₫→ ∢₫→ ∢</u>₫→

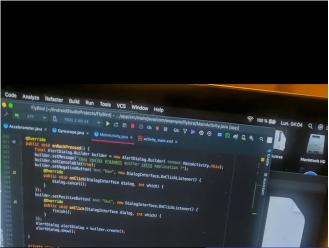
GameActivity

```
public class GameActivity extends AppCompatActivity {
   private GameView gameView:
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       getWindow().setFlags(WindowManager.LayoutParams.FLAG FULLSCREEN, WindowManager.LayoutParams.FLAG FULLSCREEN):
       Point point = new Point();
       getWindowManager().getDefaultDisplay().getSize(point);
       gameView = new GameView( activity: this, point.x, point.y);
       setContentView(gameView):
   @Override
   protected void onPause() {
       super.onPause():
       gameView.pause();
   @Override
   protected void onResume() {
        super.onResume():
       gameView.resume():
```

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```
Flight(GameView gameView, int screenY, Resources res) {
   this.gameView = gameView;
   flight1 = BitmapFactory.decodeResource(res, R.drawable.fly1);
   flight2 = BitmapFactory.decodeResource(res. R.drawable.flv2):
   width = flight1.getWidth();
   height = flight1.getHeight();
   width /= 4:
   height /= 4:
   width *= (int) screenRatioX:
   height *= (int) screenRatioY;
   flight1 = Bitmap.createScaledBitmap(flight1, width, height, filter: false);
   flight2 = Bitmap.createScaledBitmap(flight2, width, height, filter: false);
   shoot1 = BitmapFactory.decodeResource(res, R.drawable.shoot1);
   shoot2 = BitmapFactory.decodeResource(res, R.drawable.shoot2);
   shoot3 = BitmapFactorv.decodeResource(res. R.drawable.shoot3);
   shoot4 = BitmapFactorv.decodeResource(res. R.drawable.shoot4);
   shoot5 = BitmapFactorv.decodeResource(res. R.drawable.shoot5);
   shoot1 = Bitmap.createScaledBitmap(shoot1, width, height,
   shoot2 = Bitmap.createScaledBitmap(shoot2, width, height,
   shoot3 = Bitmap.createScaledBitmap(shoot3, width, height,
   shoot4 = Bitmap.createScaledBitmap(shoot4, width, height.
   shoot5 = Bitmap.createScaledBitmap(shoot5, width, height.
```

Demande de permission camera



Capture Appareil photo Analyze Refactor Build Run Tools VCS Window Help PyBird [--AndroidStudioProjects/FlyBird] - _-Appylarc/main/java/com/example/flybird/MainActivity-(eval. (spo)) AF ∨ Q POLIZARZE ∨ ▶ C E • O A • E Gr V ➤ O O E D € © 100 % 89 Lun. 04:04 Q Control of the contro builder.settsage("Joss youleg Yraiment quitter sette application ?");
builder.settsage("Joss youleg Yraiment quitter sette application ?");
builder.settancelable(ruse); Joulider.setLanceLable(frue);
builder.setMegaliveButton(text "Non", new BialogInterface.OnClickListener() { public void onClick(DialogInterface dialog, int which) (builder.setPositiveButton(sext "Oul", new DialogInterface.OnclickListener() (public void onClick(DialogInterface dialog, int which) { AlertDialog alertDialog = builder.create();

Encadré



Internationnalisation



Parametrage fond - gameactivity

```
int x = 0, y = 0;
Bitmap background;

Background(int screenX, int screenY, Resources res) {
    background = BitmapFactory.decodeResource(res, R.drawable.background);
    background = Bitmap.createScaledBitmap(background, screenX, screenY, filter: false);
}
}
```

Création objets

```
func fireBullet() {
    let bullet = SKSpriteNode(imageNamed: "bullet")
    bullet.setScale(1)
    bullet.position = player.position
    bullet.zPosition = 1
    self.addChild(bullet)

let moveBullet = SKAction.moveTo(y: self.size.height + bullet.size.height, duration: 1)
    let deleteBullet = SKAction.removeFromParent()
    let bulletSequence = SKAction.sequence([bulletSound, moveBullet, deleteBullet])
    bullet.run(bulletSequence)
}
```

Encadré

<u>GameViewController</u>

```
class GameViewController: UIViewController {
   override func viewDidLoad() {
        super.viewDidLoad()
        if let view = self.view as! SKView? {
            // Load the SKScene from 'GameScene.sks'
           let scene = GameScene(size: CGSize(width: 1536, height: 2048))
                // Set the scale mode to scale to fit the window
                scene.scaleMode = .aspectFill
                // Present the scene
                view.presentScene(scene)
           view.ianoresSiblingOrder = true
            view.showsFPS = true
           view.showsNodeCount = true
   override var shouldAutorotate: Bool {
        return true
   override var supportedInterfaceOrientations: UIInterfaceOrientationMask {
```

if UIDevice.current.userInterfaceIdiom == .phone {

Capture Appareil photo

Géolocalisation



Internationnalisation



Résultat

Tâches	Point de vue général
Réalisation du projet	2/3
Documentation	Fourni, Google, Enseignant
Expériences acquises	Plusieurs, Instructives
Encadrement	Bien, Spacieux
Communication	Bien, Bonne ambiance
Gestion de temps	Manque

FIGURE – Tableau récapitulatif bilan

Bilan Fruit de travail

Conclusion

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