

**Group members:**

**Custodio, Hans Vincent**

**Dalope, Nesthel**

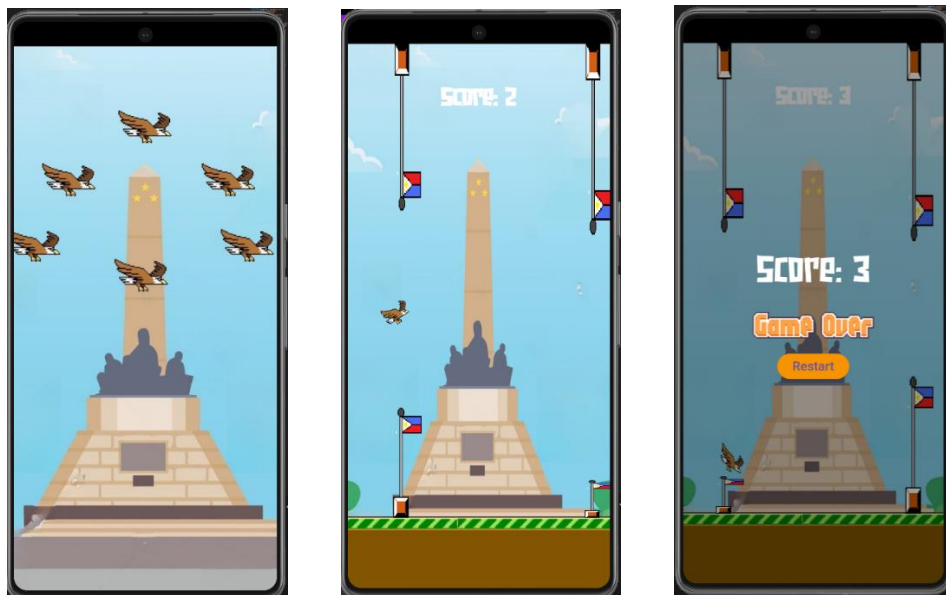
**Motea, Jhunnel**

**Tenidor, Rizza**

## **Elective 2 (MAD2) Mobile Application Development 2**

### **Midterm Project**

#### **LIPAD AGILA**



### **1. Introduction**

"Lipad Agila" is a mobile game that offers players an entertaining and culturally rich gaming experience. This game transports players to the iconic Rizal Park, Luneta, in Manila, Philippines. The game features the majestic Philippine Eagle as the player, navigating through a landscape with Philippine flags, symbolizing the park's significance as the birthplace of Philippine nationalism.

### **2. Design**

**Theme:** The game's theme is deeply rooted in Filipino culture and history. By incorporating elements such as the Philippine Eagle and the Rizal Monument backdrop, "Lipad Agila" pays homage to the country's national identity and its struggle for independence.

**Mechanics:** Players control the Philippine Eagle, tapping the screen to maneuver through a series of Philippine flags arranged akin to the iconic pipes from the original Flappy Bird game. The objective remains simple: navigate through the flags without colliding. Each successful pass through the flags earns points, while collisions result in the end of the game.

### 3. Implementation

**Graphics and Animation:** The visual elements of "Lipad Agila" are designed using Flame, a flutter-based 2D engine, allowing for smooth animations and responsive gameplay. The artwork is meticulously crafted to reflect the vibrant colors and cultural significance of its Philippine-themed setting. The Philippine Eagle and the flags are an original creation to match the environment.

**Gameplay Logic:** The game's mechanics are implemented using Flutter widgets, enabling seamless interaction between the player's taps and the movement of the Philippine Eagle sprite. Collision detection algorithms ensure accurate gameplay, enhancing the overall user experience.

### 4. Technical Decisions

**Audio Integration:** For "Lipad Agila," we decided to integrate the background sound from the iconic Flappy Bird game. This decision was made to maintain the nostalgic feel and perfectly match the gameplay experience. By incorporating familiar audio elements, players are instantly transported back to the classic Flappy Bird gameplay they know and love. This not only enhances the overall gaming experience but also adds a sense of familiarity and immersion for players, connecting them with the original game while enjoying the Filipino-themed adaptation.

### 5. Conclusion

"Lipad Agila" serves as a celebration of Philippine heritage and nationalism. By immersing players in the iconic landscape of Rizal Park and incorporating elements such as the Philippine Eagle and national flags, the game fosters a sense of pride and appreciation for Filipino culture. Through its engaging gameplay and culturally rich aesthetics, "Lipad Agila" invites players to soar through the skies of Philippine history, embodying the spirit of freedom and resilience.