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

**Midterm Project**

**GALGAL**

**A screenshot of a video game

Description automatically generated**

"Galgal" is a Flappy Bird game infused with Filipino cultural elements, designed to offer an engaging gaming experience while celebrating the richness of Filipino culture and aesthetics. This documentation details the design, development process, technical decisions, and rationale behind the chosen theme, mechanics, and incorporation of Filipino elements.

**Design and Development Process:**

* **Conceptualization:** We brainstormed ideas to infuse Filipino elements into the classic Flappy Bird game. Our decision was to incorporate iconic Filipino symbols such as the "Manananggal" as the main character, a night-time background to reflect its nocturnal nature, and electric posts to enrich the game environment with cultural relevance.
* **Design Phase:** After finalizing the concept, we created sketches and mockups to visualize the game's layout, characters, and backgrounds. We aimed for vibrant and colorful graphics to reflect the lively Filipino culture.
* **Development:** We utilized the Flutter framework for game development due to its cross-platform compatibility and ease of use. The game mechanics were adapted from the original Flappy Bird, with adjustments to fit the Filipino theme. We implemented intuitive touch controls for seamless gameplay on mobile devices.

**Technical Decisions:**

* **Flutter Framework:** We chose Flutter for its versatility and efficiency in developing cross-platform mobile applications. Its hot reload feature accelerated the development process by allowing real-time code changes and updates.
* **Sprite Animation:** To bring the game characters and backgrounds to life, we utilized sprite animation techniques. This helped create smooth transitions and engaging visuals, enhancing the overall gaming experience.
* **Responsive Design:** We prioritized responsive design principles to ensure the game adapts seamlessly to various screen sizes and orientations. This optimized user experience across different devices, from smartphones to tablets.

**Filipino Elements:**

* **Iconic Symbols:** We integrated iconic Filipino symbols, such as such as the "Manananggal" as the main character, a night-time background to reflect its nocturnal nature, and electric posts to enrich the game environment with cultural relevance. These elements serve as obstacles and background scenery, adding a distinctive Filipino flavor to the gameplay.
* **Cultural Integration:** The game seamlessly incorporates cultural references and nuances that resonate with Filipino players. From familiar landscapes to traditional elements like the "Manananggal" character and night-time settings, every aspect of the game immerses players in the rich tapestry of Filipino heritage and identity.

Through thoughtful design, technical innovation, and cultural integration, we aimed to captivate players while paying homage to the rich tapestry of Filipino identity. We hope that players enjoy this immersive journey through the Philippines and find delight in its colorful charm.