## Elective 2 (MAD 2) Mobile Application Development 2

Midterm Project

# GameDev using Flutter Casual Games Tookit

**SALITA SA LARAWAN**

**Project Report**

Embark on a linguistic adventure through the vibrant culture of the Philippines with our exhilarating app, ' Salita sa Larawan! Dive into a world of fun and challenge as you decipher Filipino words from a series of captivating images. Test your knowledge, expand your vocabulary, and immerse yourself in the richness of the Filipino language. With each correct guess, unlock new levels and earn bragging rights as the ultimate Pinoy wordsmith. Get ready to be spellbound by 'Salita sa Larawan‘ and let it become your trusty companion on your journey to mastering the beauty of the Filipino language!

The objective is Players are presented with four images that represent a single Filipino word. Their task is to guess the word that connects all four images.

The initial phase involved brainstorming sessions to conceptualize the core mechanics and theme of the game. We drew inspiration from the popularity of puzzle games and the richness of Filipino vocabulary and imagery.

We approach using frameworks Flutter to ensure the app's compatibility with Android devices, reducing development time and maintenance efforts.

To handle game data and user progress, we implemented a serverless backend using platforms Hive/ flutter hive. This decision allowed for scalability and cost-efficiency while minimizing infrastructure management overhead.

Our development team utilized modern programming languages and frameworks to build the app Android platforms. We focused on creating a seamless and intuitive gameplay experience while ensuring compatibility across a wide range of devices.

The design implementation has the vibe of Filipino concept which we use a color that suite a Filipino theme that the design must be catching.

We chose to infuse the game with Filipino elements to resonate with the local audience and showcase the richness of Filipino culture and language. This decision was driven by a desire to create a game that feels familiar and relatable to Filipino players.

By incorporating Filipino words and imagery, we aimed to promote language learning and cultural appreciation among players. The game serves as a fun and interactive way for users to expand their vocabulary and deepen their understanding of Filipino traditions and symbols.

The mechanics of " **SALITA SA LARAWAN**" were adapted to suit the Filipino context, maintaining the addictive gameplay while adding a unique twist. The inclusion of Filipino-themed puzzles and challenges enhances player engagement and enjoyment, fostering a sense of pride and connection to their heritage

**MECHANICS**

1. Each level consists of four images displayed on the screen.

2. Below the images, there are blank spaces representing the number of letters in the Filipino word.

3. Players are provided with a set of letters (either scrambled or in order) from which they must form the correct word.

4. Players can tap on a letter to select it and tap again to place it in one of the blank spaces. If a player taps on the wrong letter, they can deselect it by tapping again.

5. Every 10 levels, we throw in a super-charged Challenge Level! It's where the fun gets even more intense, with tougher puzzles and bigger rewards.

6. A certification will get once the game is done.

**Filipino Elements**

In "Salita sa Larawan," players are immersed in Filipino culture through various elements. First, they encounter Filipino words, providing exposure to commonly used vocabulary and phrases. Secondly, the game incorporates familiar images such as the popular Filipino dishes, and scenes featuring Filipino people, enhancing relatability and cultural relevance. These elements not only entertain but also educate players about the rich heritage and language of the Philippines, fostering a deeper appreciation for its cultural diversity. By including diverse images of Filipino people engaging in everyday activities and traditions, the game paints a vivid picture of Filipino life and adds an extra layer of authenticity to the overall experience.

Our decision to create "Salita sa Larawan" stemmed from our desire to offer users an immersive linguistic adventure into the vibrant culture of the Philippines. We envisioned a game where players could have fun deciphering Filipino words from captivating images, all while expanding their vocabulary and knowledge of the Filipino language. By unlocking new levels with each correct guess, players can feel a sense of achievement and pride as they progress towards becoming the ultimate Pinoy wordsmith. Our approach to development involved using Flutter to ensure compatibility across Android devices, streamlining our efforts for efficient development. We implemented a serverless backend using platforms like Hive/Flutter Hive to manage game data and user progress, ensuring scalability and cost-efficiency. In terms of design, we opted for a Filipino-themed concept with catchy colors to engage players visually. We made a conscious choice to infuse the game with Filipino elements to resonate with our local audience and showcase the richness of Filipino culture. By incorporating Filipino words, imagery, and challenges, we aim to promote language learning and cultural appreciation among players while providing an enjoyable gaming experience. Through "Salita sa Larawan," we hope to share the beauty and diversity of Filipino heritage with players worldwide, fostering a deeper connection to our culture and language

GROUP MEMBERS:

JOEL GUTLAY

TRISTAN RASCO

MARK NEIL TANAP

ROCHELLE ALARCIO