**The Memory Match Game**

**Group 5:**

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**Design and Development Process:**

Game Concept: The Memory Match Game is a classic card-matching game where players flip cards to find pairs within a grid of cards. The game was designed to be engaging and enjoyable for players of all ages.

Technical Stack: The game was developed using the Flutter framework, which allows for cross-platform development for both Android and Web platforms.

**Features:**

Multiple grid sizes: Players can choose from different grid sizes (4x4, 6x6, 8x8) to adjust the game's difficulty level.

Filipino-themed elements: The game incorporates Filipino cultural elements such as traditional Filipino images, symbols, famous landmarks, and colors to provide a unique and immersive experience.

Game logic: The game includes logic for card matching, timer functionality, and game state management to ensure a smooth gaming experience.

**Development Process:**

Planning: The project started with brainstorming ideas and defining the game's scope, features, and design elements.

Frontend Development: The game's frontend was developed using Flutter widgets, incorporating animations, transitions, and responsive layouts for a polished look and feel.

Testing and Optimization: The game underwent rigorous testing to ensure functionality, performance, and compatibility across different devices and screen sizes.

**Technical Decisions:**

Flutter: Flutter was chosen for its fast development cycle, hot reload feature, and ability to create beautiful UIs with custom animations and effects.

Filipino Theme: The decision to incorporate Filipino elements was based on the desire to showcase Filipino culture and heritage through the game, making it more relatable and appealing to Filipino players.

Responsive Design: The game was designed with responsive layouts to ensure optimal user experience across various devices, including smartphones and tablets.

**Chosen Theme, Mechanics, and Filipino Elements:**

Theme: The Filipino theme was chosen to celebrate Filipino culture, traditions, and artistry. The game features images of iconic Filipino symbols, and landmarks creating a nostalgic and immersive experience for players.

Mechanics: The game mechanics are straightforward and familiar, making it accessible to players of all ages.

Filipino Elements: This includes the Filipino iconic symbols, landmarks and other images that makes the game authentic and culturally rich.