

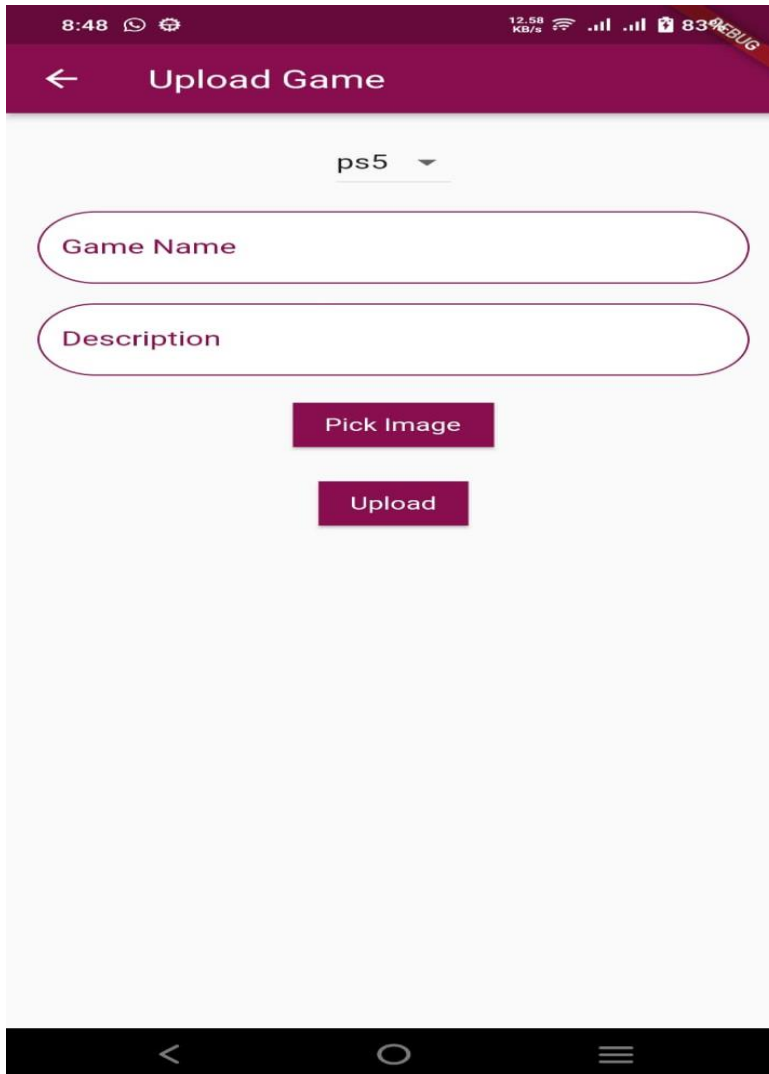
Real-World Problem:

- **Information Fragmentation:** Gamers often have to visit multiple websites, forums, or use various apps to gather information about games, especially those available on different consoles.
- **Ease of Use:** Navigating multiple sources and platforms for gaming information can be cumbersome, detracting from the enjoyment of gaming.

Proposed Solution:

- **Discoverability:** The application helps gamers discover new games or hidden gems, allowing them to broaden their gaming experiences. It acts as a recommendation system, which can be invaluable in addressing the discoverability challenge.
- **User-Friendly Design:** The term "seamlessly" implies a user-friendly and intuitive design, making it easier for gamers to explore the app, find the information they need, and enhance their gaming experiences with minimal hassle.

Responsive User Interfaces:



The screenshot shows a mobile application interface for uploading a game. At the top, there is a status bar with the time 8:48, a signal strength indicator, and a battery level of 83%. Below the status bar is a dark blue header with a back arrow and the text "Upload Game". Under the header, there is a dropdown menu currently set to "ps5". Below the dropdown are two rounded rectangular input fields, one labeled "Game Name" and one labeled "Description". Below these fields are two dark blue buttons: "Pick Image" and "Upload". At the bottom of the screen is a black navigation bar with three icons: a back arrow, a circle, and a hamburger menu.

Data storage:

Firebase database is used as its data storage solution. It serves as a multimedia repository for the entire gaming catalogs for both PlayStation and Xbox.

Firebase efficiently stores not only textual data like game names and descriptions but also the visual images of the games on the app.

Issues and Bugs Encountered and Resolved during Development:

- **Data Consistency:** Real-time databases, like Firebase, are susceptible to data consistency issues. Developers must implement strategies like transaction handling to maintain data integrity and avoid conflicts when multiple users access or modify the same data simultaneously.
- **Image Loading and Storage:** Managing images can be challenging, particularly regarding storage and loading. Developers must optimize image storage to avoid consuming excessive server resources and ensure fast loading times on the client side.
- **User Authentication:** Issues related to user authentication can arise, including login errors, password reset problems, and account security vulnerabilities. Proper user authentication and security measures are crucial to protect user data.