**INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT**

**Tamagotchi application**

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# Reference

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Report of the Tamagotchi Application

**Introduction:** In the late 1990s, a virtual pet simulation game called Tamagotchi became extremely popular. It started out as a portable digital toy but has since developed into a variety of computer and smartphone software apps. An application for Tamagotchi’s is designed to mimic the sensation of having and taking care of a virtual pet. In order to maintain the pet's wellbeing and happiness, users are in charge of attending to its needs, which include playing, feeding, and cleaning.

**User Interface (UI) Design**

**Colour and Theme:** To appeal to users, employ design elements that are vivid, colourful, and fonts to give the Tamagotchi app unique.

**Icons and Graphics:** Use adorable and eye-catching icons and visuals for buttons, actions, and status indications.

**Consistency:** Keep UI components like buttons, text view, spacing consistent and images across the whole application.

**Design layout:** Are responsive to varying screen sizes and orientations to provide a consistent user experience across devices.

**Navigation**

**Clear Navigation Paths:** Ensure that users can navigate the app with ease, accessing various features and areas with ease.

**Menu Design:** Make sure your menu system is easy to understand and utilise so people can switch between various screens and features.

**Back Button Functionality:** Make sure that the back button behaves consistently so that users can quickly go backward through the app's hierarchy.

**Functionality**

**Core Features:** Identify and prioritize essential features such as feeding, playing, and cleaning the virtual pet. The virtual pet can be fed by selecting the button which is provided that indicates “feed”. Regular cleaning is essential to maintain the virtual pet health and to do so you would have to select the button indicated on the screen which says “clean”. Users can engage in various activities and games to entertain themselves.

**Interactivity:** Incorporate interactive elements that allow users to engage with their virtual pet, such as clicking on the buttons provided on the screen in order to which from the welcome screen to the starting screen.

**Feedback Mechanisms:** Indicate to users what is happening with their pet and how it is changing through animations and visual cues.

**Utilization of GitHub and GitHub Actions:**

**Version Control:** GitHub serves as a version control repository for the project, allowing collaborative development and tracking of changes.

Issue Tracking: GitHub Issues are used to manage tasks, bugs, and feature requests, facilitating communication and organization among the development team.

**Code Review:** Pull requests enable code review processes, ensuring code quality, consistency, and collaboration.

**Continuous Integration:** GitHub Actions automate build, test, and deployment processes, improving efficiency and reliability in the development pipeline.

**Documentation:** GitHub or README files provide documentation for users, including setup instructions, feature descriptions, and troubleshooting guides.

**Conclusion:** This Tamagotchi app combines nostalgia with modern mobile experiences, allowing users to care for virtual pets on their smartphones. Through careful design considerations and utilization of GitHub and GitHub Actions, the app aims to deliver an engaging and user-friendly experience while fostering a sense of responsibility and connection with virtual companions.