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① PROG7312 TASK 1 RESEARCH

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Introduction The Dewey Decimal system, while mostly unknown to the average person, is an extremely important and fundamental aspect of the modern library system. Learning and fully understanding this system can be tedious for librarians however it is of paramount impor-

tance that the system is fully

understood. This research document shall explore gamification

features that can be used to make the

③ process of learning the Dewey Decimal system for novice librarians. Of the researched gamification

features, one feature shall be selected with a motivation for the

choice. This chosen gamification

feature shall then be implemented into the application that shall be developed for novice librarians to

④ learn the Dewey Decimal system.

Gamification Features 1. Leaderboard

2. Achievements

3. Progress bar

4. ⑤ In app currency

5. Levels

(Baraishuk, 2018)

Gamification Choice & Motivation I have elected to use a leaderboard as my gamification feature. In the context of the application,

I

believe a leaderboard is the most appropriate gamification feature to apply as it allows the application

to remain simple while still performing its purpose.

The leaderboard shall show the time and name of the user and

users shall only be eligible for the

leaderboard if they complete the task with no mistakes with the top 10 scores being displayed.

Showing more scores on the leaderboard shall present a greater range of scores, preventing users

from being discouraged by showing them only the best scores which they may not be able to compete

with at their current level (Duggan & Shoup, n.d.).

The addition of a leaderboard brings in a sense of competition of users which shall motivate users to

intrinsically improve their skills (Duggan & Shoup, n.d.). furthermore, this sense of competition will

distract users from the fact that they are learning the process has become gamified resulting in more

time spent engaging with the application and more skill development.

When applying the Bartle Test of Psychology, a test which breaks gamers into four categories which

are the achiever, explorer, socialiser, and killer, it can be seen that a leaderboard is an appropriate

gamification feature for the application. A leaderboard applies to the socialiser and achiever

2

categories, which comprise of 70% and 10% of gamers respectively, according to Bartle's research

(Kumar, et al., 2020). Based on this, 80% of gamers should find enjoyment with the leaderboard system.

Figure 1: Bartle's Player Type (Kumar, et al., 2020)

Conclusion In conclusion, it is evident through research that a leaderboard is the most appropriate gamification feature for the Dewey Decimal learning application. While other gamification features such as levels were in contest, the leaderboard is shown to have the simplest and most notable application. The inclusion of the psychological aspect of gamification features, seen in Bartle's Test of Psychology has further cemented the motivation for the use of a leaderboard.

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