

Matching Game Report

Name, the date, and project name: Steven Passynkov Nov 30 2024, Matching Game

A brief description of the game:

The game is a scoring-based, level-challenge game where players complete tasks across three difficulty levels: Easy, Medium, and Hard. Player scores are tracked on a leaderboard, which can be updated and sorted by name and level. Players can view their ranking, save their score, and check the leaderboard to compare their performance.

Results of testing

- **Date of the testing by advisor/contact person:** November 30, 2024
- **Tester's name and occupation:** My Sister, UX Product Designer
- **Summary of features tested:** The tester evaluated the score-saving functionality, leaderboard display, sorting features, and level navigation. They also tested the ability to update existing scores and the input validation for name and score entries.
- **Did the program work as it was supposed to?** Yes, the program worked as expected with correct leaderboard updates, sorting, and score saving.
- **Did she find the program easy to use?** Yes, the interface was straightforward. The tester noted that the input fields for player names and score entry were simple, though a help tooltip would make the experience smoother for first-time users.
- **Is the program useful to the target audience?** Yes, it's helpful for players who want to track their performance across multiple levels.
- **If the program were made available to the tester, would they use it?** Yes, the tester would use the program, as it provides an engaging way to track progress and compete with others.

- **What recommendations for improvement did the tester make?** The tester recommended implementing a visual progress tracker for players to easily see how close they are to reaching the next level.
- **Are there areas of the program that require upgrading or reworking?** Some areas for improvement include optimizing the leaderboard display for a better user experience and handling error in case of incorrect input data.
- **What would you need to make version two of your application even better than this first version (more time, more programming expertise, etc.)?** To improve the next version, more time would be needed to refine the UI and UX and add features such as score-based achievements or competitive multiplayer functionality.

Review of the Management of the Project

Compare the project plan to actual performance.

The project experienced delays primarily due to the significant amount of documentation required and a very tight work schedule. While the core features of the game, such as the scoring system, leaderboard, and gameplay mechanics, were implemented as planned.

Did the completed software application meet all of the original requirements?

The completed software application did not fully meet all original requirements. I initially planned to add a visual timer, deploy it on the web, and include images on the game board instead of just using colors. However, the extensive documentation required led me to prioritize core features and drop these enhancements. In software development, developers typically focus on high and low-level design, not user guides or project management, which contributed to the decision to exclude some features.

Outline successes

The project successfully implemented the core features, including score tracking, leaderboard functionality, and smooth user interaction.

Outline difficulties

The project struggled with time management due to heavy documentation, which delayed planned features like the visual timer and image integration.

Make recommendations for improvement

Prioritize essential features, and set realistic timelines.

I recommend replacing the outdated Java Swing technology in this course with a more modern web-based SPA framework, such as React with Node.js and TypeScript. This update would improve student satisfaction, add more value for students, and ultimately generate more revenue for OVS. If you're interested, I would be happy to assist OVS with this transition. Please feel free to contact me, and I will share my resume with you.

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