



UNI-VERSE:

Learning Management System using 2D RPG

Introduction

Learning management systems are a great tool to use in training and learning in various industries specially in the academe. It offers an environment for the delivery of both learning modules and assessment. The development of Universe: A Learning Management System using 2D RPG seeks to replicate those same functions whilst also offering the level up, point rewards and game mechanics of role-playing games. This can be used a new and a more interactive learning environment.

Objectives

Specifically, this project sought to :

- Convert the usual assignments, projects, and assessments into an interactive and fun game-like activities.
- Provide both learners and educators a new learning environment that is both educational and fun.
- Motivate students by using a point and progress monitoring system that promotes development rather than punishes mediocrity.

User-interface Design



Methodology

The researchers of this study used the **AGILE** Methodology of software development which consists of **6 phases**:

- 1) Plan
- 2) Design
- 3) Develop
- 4) Test
- 5) Release
- 6) Feedback.



Results

The results show the frequency, percentage and the mean from the interpreted instructor and user response of the overall functionality and design. It shows in the table on the right that the overall ratings of satisfaction of the system as shown by the data gathered from the system being demonstrated to the respondents. The overall functionality and design of the tables shown is a very satisfactory rating.

Topic	Weighted Mean	Description Rating
20-010 - Functionality	5.72	Strongly Agree
20-010 - Design	5.16	Strongly Agree
20-010 - User Interface	5.16	Strongly Agree
20-010 - Testing	5.16	Strongly Agree
20-010 - Reliability	5.16	Strongly Agree
20-010 - Ease of Use	5.16	Strongly Agree
Total	5.16	Strongly Agree

Conclusion

In conclusion, the Uni-verse learning management system, which utilizes 2D RPG, has been found to be effective based on the interpreted responses of the respondents in the results. It offers both instructors and students the basic functionalities of a traditional LMS, and its overall satisfactory rating suggests it can serve as a viable alternative learning environment for both parties.

Recommendations

Recommendations for future research on the Uni-verse learning management system include caution due to limited sample size, but improvements can be made by adding an essay-type activity, creating a file upload dialogue, adding more fighting scenarios and stories, and including a messaging section for student-teacher communication.

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