

DESIGNING MUSLIMHEIR APPLICATION AS AN EDUCATIONAL GAME ABOUT HERITAGE (CASE STUDY MAN 1 BENER MERIAH)

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KEYWORDS

Incremental Model,
Faraidh Science, Learning
Media, Lecture Method.

ABSTRAK

Inheritance is property or property that is entitled to be received by heirs, legally must be divided fairly so as not to cause family division. This is used as a learning material taught to class XII MAN 1 Bener Meriah students. Based on the results of initial observations, learning at MAN 1 Bener Meriah usually still uses the monotonous lecture method. As a result, students' understanding tends to be minimal and students quickly forget it. So a heritage learning application is needed for class XII students to facilitate understanding of the material. One solution that can be used is the use of the Muslimheir application. Muslimheir app is an app that provides learning services about inheritance. This application is designed by utilizing the principles of educational games so that it can be used by all circles, especially among MAN 1 Bener Meriah students. The purpose of this study is to know the concept and testing of the Muslimheir application as a learning medium for inheritance. This research method uses an incremental model method, which consists of: analysis, design, coding and testing. The population of this study was all students of Class XII MAN 1 Bener Meriah. The sample included 20 students who were randomly drawn to try the Muslimheir app and then gave testimonials via Google Forms. The results showed that the Muslimheir application has a concept as an edu-game equipped with Faraidh, Game, History, Application Info, FAQ, and Calculate Inheritance features. Researchers concluded that based on testing 20 panelists, 90% of participants revealed that this application increased their understanding of the distribution of inheritance according to Islamic law. The results of validation tests by 4 expert validators show that the Muslimheir application has a score of 88,278 which means very good. Thus, the Muslimheir application can be used in learning related to inheritance in the future.

INTRODUCTION

Inheritance is property in the form of goods or objects that are entitled to be received by heirs, and legally must be divided fairly so as not to cause family divisions (Wati and Zulfikar,

2017). However, at this time the problem of lack of public knowledge about inheritance from an early age, as well as the lack of emphasis on education about this matter makes our society still mix sharia with culture when it comes time for the division of inheritance (Poespasari, 2018). Learning at MAN 1 Bener Meriah also usually still uses a monotonous lecture method. As a result, students' understanding of learning inheritance tends to be minimal and students also quickly forget it. Furthermore, after learning, students are less strong in understanding the concept and as adults still choose to follow culture and passions when distributing inheritance (Daenuri, 2021). The main principle of the division of inheritance in Islamic sharia is explained through the word of Allah SWT. in Q.S An-Nisa' verse 7 and hadith Al Bukhari IV, 1319H: 52 as follows.

Evidence:

نَصِيْبًا كَثْرًا أَوْ مِنْهُ قَلًّا مِمَّا الْوَالِدِيْنَ الْأَقْرَبُونَ مِمَّا تَرَكَ نَصِيْبٌ وَلِلنِّسَاءِ وَالْأَقْرَبُونَ وَالْوَالِدِيْنَ تَرَكَ مِمَّا نَصِيْبٌ لِلرِّجَالِ مَفْرُوضًا

"For men there is a right to a share of the estate of both parents and relatives, and for women there is a right to a share (also) of the estate of both parents and relatives, either a little or a lot according to the share that has been determined." (QS. An-Nisaa: 7).

Hadith:

مَنْ تَرَكَ حَقًّا أَوْ مَالًا فَهُوَ لِوَرَثَتِهِ بَعْدَ مَوْتِهِ

Means:

"Whoever leaves a right or a property, then that right or property is to his heirs after death". (Al Bukhari IV, 1319 AH: 52).

Based on the above verses and hadiths it is very clear that the issue of division of inheritance in Islam is well regulated. In accordance with the provisions of Islamic law regarding the fair distribution of inheritance law, there should be no family quarrels (Dunisak, 2018). However, the students of MAN 1 Bener Meriah lack understanding of learning inheritance according to the provisions of Islamic law. This is a concern in the future because it can cause students to still choose concepts that are not in accordance with their provisions.

Based on this, it is necessary to develop a further innovation in the form of designing the Muslimheir application as an educational game about the explanation of inheritance and its distribution according to Islamic law. Therefore, researchers conducted research on designing the Muslimheir application as an educational game about inheritance so that it can make it easier for MAN 1 Bener Meriah students to understand the learning of inheritance and its division according to Islamic law. The design of this application is expected to improve and facilitate students' understanding of the explanation of inheritance and the distribution of inheritance in accordance with Islamic law (Faila Sufa, 2017). The design of this application is expected to know the concept of the Muslimheir application as an educational game about inheritance for high school / MA students, and the results of testing the implementation of the Muslimheir application on MAN 1 Bener Meriah students.

RESEARCH METHODS

This research method uses an incremental model program, which is a development approach that is iterative or contains repetition. The results of the product are getting more and

more complete until the most complete version is produced as the final product of the process (Arianti, & Lunak, 2013).

RESULTS AND DISCUSSION

Data about Features Available in Muslim Heir App

This application is an Educational Game that needs to be run online with various interesting features (Sun'iyah, 2020). The main target users are high school / MA class XII students. With this MuslimHeir application, users are expected to understand theories and questions about the division of inheritance in an Islamic way, interesting infographics about Faraidh, games about inheritance in multiple choice and short fills, and calculation of inheritance with an instant calculator (Jemsly & Martani, n.d.). In addition, the appearance is designed simply so that users feel the practicality in operating this application. High school students and other Muslim users must understand that the distribution of inheritance must follow Islamic shari'a law so that there is no competition or family division between one family and another. If the family is still confused about the division process, an inheritance calculation calculator can be used that makes it easier for users when dividing inheritance.

In the Faraidh feature, users will know and understand the learning of inheritance (Nurdin, 2020). This feature is equipped with material in the form of interesting infographics in the form of 2-dimensional images, complete with explanations of inheritance. The next feature is Games. In this feature, there are several levels of levels to answer related questions about inheritance and inheritance calculation questions. After that, there is a FAQ feature that presents basic and substantial questions about inheritance. In the application info feature, it is explained the purpose of using the MuslimHeir application as a game-based learning application about the distribution of inheritance in accordance with Islamic law. In the Calculate Inheritance feature, users can calculate inheritance which at the initial display the user determines the gender and number of inheritance left behind, then fill in how many heirs are entitled to receive inheritance and the calculation of inheritance has been set in the MuslimHeir application system (Pradhana, 2018).

Muslimheir App Development Software Data

Visual Studio Code

Visual Studio Code (abbreviated VSCode) is Microsoft's source-code editing software for Linux, MacOS, and Windows (Saputra, 2020). Visual Studio Code provides features such as syntax highlighting, code completion, code excerpts, refactoring code, and Git. Microsoft releases Visual Studio Code source code in GitHub repository with MIT License (Code - OSS),

Android Studio

Android Studio is an Integrated Development Environment (IDE) for the Android operating system, built on JetBrains IntelliJ IDEA software and designed specifically for Android development (Chia & Susanti, 2020). This idea is a replacement of Eclipse Android Development Tools (ADT) which was previously the main idea for android application development.

Figma

Figma is a cloud-based design application and prototyping tool for digital projects (Pramudita, Arifin, Alfian, Safitri, & Anwariya, 2021). Figma was created to be able to help its users to collaborate on projects and work in teams at once anywhere (Efendi, Tashid, Yenni, Rio, & Muzawi, 2021). Although this tool is very similar to other prototyping options such as

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Sketch, Adobe XD and others, its main differentiator is the ability to work in the form of a project team.

Data on MuslimHeir Application Development Results

MuslimHeir app interface



Figure 1
Application Menu Display

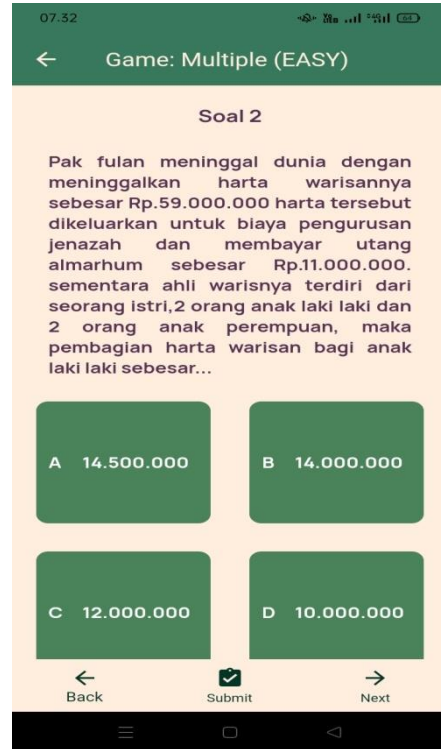


Figure 2
Game Display

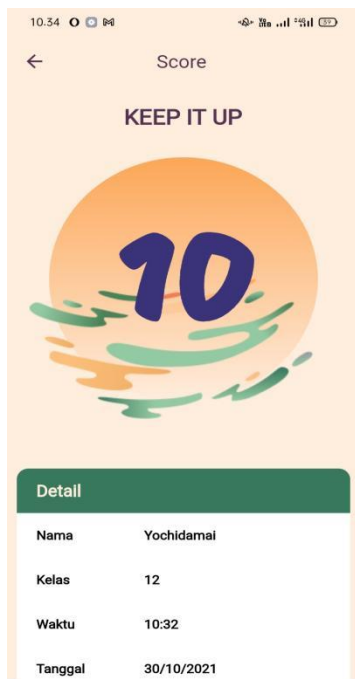


Figure 3
Results Display



Figure 4
FAQ Display



Figure 5
Info Display

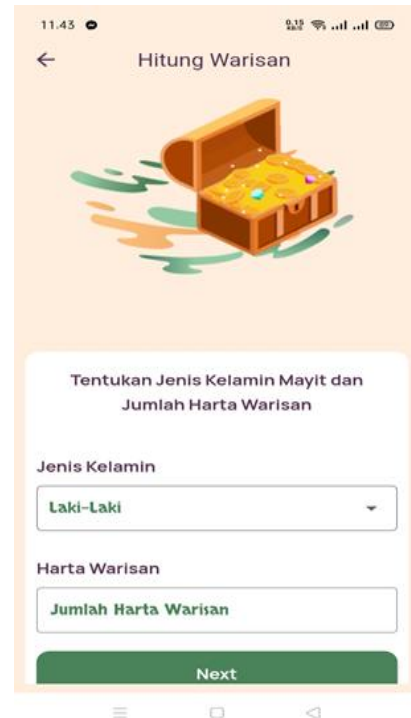


Figure 6
Estate Calculator

MuslimHeir App Test Results

Table 1
Muslimheir Application Function Test Results by 20 Panelists

NO.	Function Testing	Information
1.	Open the App	Work
2.	Login	Work
3.	App start view	Work
4.	Unlock Faraidh Features	Work
5.	Unlock Game Features	Work
6.	Unlock FAQ Features	Work
7.	Open the App Info feature	Work
8.	Open the Calculate Inheritance feature	Work
9.	Close an App	Work

Test Results by Validators

Table 2
Test Results by Validators

Muslimheir Application Validation Table By Validators				
VALIDATOR	Parameter Validasi			AVERAGE
	Application Display	Usability Test	Compatibility with the Material	
Mahdi, S. Ag., MAKepala MAN 1 Bener Meriah	91,67	83,33	91,67	88,89
Naila Amna, S.SiWaka Kurikulum MAN 1 Bener Meriah	83,33	91,67	75	83,333
Nurjannah, S.AgGuru Fiqih MAN 1 Bener Meriah	91,67	91,7	83,33	88,89
Muhammad Syarifuddin, S.PdAhli IT Universitas Brawijaya	94	87	95	92
FINAL AVERAGE				88,2783 (Excellent)

During the analysis process, it was found that both teachers and students needed more interesting inheritance learning assistance via application (Ibda, 2017). Based on the initial analysis process, the author examines the needs of features for Muslimheir users. Then the process of designing the MuslimHeir Application is carried out which can make it easier for users to understand and know the division of inheritance. After preparing raw material in the form of infographics on inheritance from the Compilation of Islamic Law (KHI), creating questions and answer keys for games, listing a list of basic frequently asked questions about inheritance (FAQ) and input formulas for inheritance distribution according to the Quran and Sunnah, the coding process was carried out. The final result of the application features obtained is in the form of Faraidh Features, Games, FAQs, Application Info, and Calculate Inheritance. The acquired application has a pastel-green color shading display with a memory load of 28 MB.

How to use the Muslimheir application is:

- a) Users ensure sufficient memory on the phone for installation of the Muslimheir application
- b) The installation and login process is carried out using only the name and class

- c) Users can learn the basics of inheritance on Faraidh features and FAQs first.
- d) Users can also try the inheritance calculation feature to simulate cases of inheritance division or use in real life.
- e) If the user already understands the material, they can continue to try the easy and then difficult level game features
- f) Users can check the score in History. The teacher can help give appreciation to students who have a good score record.

Based on the results of testimonials from 20 panelists, it is known that there are 19 people (95%) who state that this application can function properly (Sari & Irena, 2019). There is only 1 participant who states on the Guess type Game page number 4 that does not appear on his Android phone with a mobile ratio of 9:16. As for 90% of participants also mentioned that this application can increase their understanding of the distribution of inheritance according to Islamic law (Faila Sufa, 2017). For the other 10% of participants, they expressed the need for a variety of audiovisual material presentations to make it easier to remember. Finally, the Muslimheir app received a rating of 5 (very good) by 80% of the panelists. Panelists stated that this application needs to be developed not only for MAN 1 Bener Meriah, but also schools in Indonesia so that children no longer mix customs with sharia in the future. Judging from the validation by the four validators, the Muslimheir application has a good application display (score interval 83.33-94), practical and good usability (score interval 83.33-91.67) and quite good material suitability (score interval 75-91.67). The validator gives a suggestion, namely that the questions need to be tested first to be in line with the curriculum, then on the score page it is necessary to show the answer key, and the questions also need to be further varied so that there are more than 2 levels of question packages (Pratama, 2018).

CONCLUSION

The conclusion of this study is that the Muslimheir application has a concept as an edu-game equipped with Faraidh features, Games, History, application info, FAQs, and calculating inheritance. Researchers concluded that based on testing 20 panelists, 90% of participants revealed that this application increased their understanding of the distribution of inheritance according to Islamic law. The results of validation tests by 4 expert validators show that the Muslimheir application has a score of 88,278 which means very good. Thus, the Muslimheir application can be used in learning related to inheritance in the future.

DAFTAR PUSTAKA

- Chia, Calvin Rizky Utama, & Susanti, Wilda. (2020). Rancang bangun aplikasi virtual classroom berbasis android dan webhost. *Jurnal Mahasiswa Aplikasi Teknologi Komputer Dan Informasi (JMApTeKsi)*, 1(3), 160–165.
- Daenuri, Muhamad Ahdor. (2021). *Keutamaan Belajar Menurut Imam AL-Ghazali Dalam Kitab Ihya Ulumuddin*. CV. Azka Pustaka.
- Dunisak, Madjidah. (2018). *Pembatalan Hibah Oleh Ahli Waris Ditinjau Dari Perspektif Hukum Islam*. Universitas 17 Agustus 1945.
- Efendi, Yoyon, Tashid, Tashid, Yenni, Helda, Rio, Unang, & Muzawi, Rometdo. (2021). Redesign Web Sekolah Metode User Centered Design. *Building of Informatics, Technology and Science (BITS)*, 3(3), 317–324.
- Faila Sufa, Nidda. (2017). *Implementasi Teknik Process Oriented Guided Inquiry Learning*

Perancangan Aplikasi Muslimheir Sebagai Educational Game Tentang Harta Warisan (Studi Kasus Man 1 Bener Meriah)

- Dalam Meningkatkan Kemampuan Ranah Kognitif Siswa Pada Mata Pelajaran Ilmu Faroidl Di Ma Nu Nurul Ulum Jekulo Kudus. Stain Kudus.*
- Ibda, Hamidulloh. (2017). *Media Pembelajaran berbasis Wayang: Konsep dan Aplikasi*. CV. Pilar Nusantara.
- Jemsly, H., & Martani, H. (n.d.). *PMSK: Strategik di Tengah Operasional*. Elex Media Komputindo.
- Nurdin, Nurdin. (2020). Penerapan Aplikasi At-Tashil Pada Materi Al-Mawaris Pada Balai Diklat Keagamaan Aceh Tahun 2020. *Jurnal Mudarrisuna: Media Kajian Pendidikan Agama Islam*, 10(3), 402–427.
- Pradhana, Theo Aditya. (2018). *Tinjauan Hukum Islam Terhadap Praktik Kerjasama Bisnis Google Adsense di Wilayah Ponorogo*. IAIN Ponorogo.
- Pramudita, Rully, Arifin, Rita Wahyuni, Alfian, Ari Nurul, Safitri, Nadya, & Anwariya, Shilka Dina. (2021). Penggunaan Aplikasi Figma Dalam Membangun Ui/Ux Yang Interaktif Pada Program Studi Teknik Informatika Stmik Tasikmalaya. *Jurnal Buana Pengabdian*, 3(1), 149–154.
- Pratama, Riyo Arie. (2018). *Pengembangan Lembar Kerja P Eserta Didik (Lkpd) Berbasis Scaffolding Pada Materi Kalor untuk Melatih Pemahaman Konsep Peserta Didik*. UIN Raden Intan Lampung.
- Saputra, M. Harry K. (2020). *Panduan Pembuatan Aplikasi Monitoring Dan Penilaian Kinerja Pengembangan Talent Pada Perusahaan*. Kreatif.
- Sari, Wulan Purnama, & Irena, Lydia. (2019). *Komunikasi kontemporer dan masyarakat*. Gramedia Pustaka Utama.
- Sun'iyah, Siti Lathifatus. (2020). Media pembelajaran daring berorientasi evaluasi pembelajaran pada mata pelajaran PAI di tingkat pendidikan dasar. *Dar El-Ilmi: Jurnal Studi Keagamaan, Pendidikan Dan Humaniora*, 7(1), 1–18.