

## Marriage Failure Prevention with The Help of Marriage Planning Software

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### ABSTRACT

*Marriage is an inner and outer bond to live together based on an agreement that binds a man and a woman which is recognized and protected by religious and state law to create a quality and healthy family. However, BKKBN data states that the divorce rate in 2021 increased drastically by 581,000 cases. This is thought to be because a sane couple meets a toxic partner, where the main element in creating a happy marriage is determining the right partner, therefore a software design was created to be able to get to know each other through several assessment criteria that will appear in the software. The software was created using the PHP programming language which displays important questions in character recognition where the results of filling in these questions can be recorded permanently before being shared in two directions with couples who want to continue their relationship to a more serious level. The recorded results cannot be changed but can be commented on by both parties so that they can plan for the future based on differences or even similarities in opinions found. The aim of this application is not to discuss the past but to organize the future as early as possible. It is hoped that this software can reduce the divorce rate, using partner recognition detection as early as possible.*

**Keywords:** *Divorce, Marriage Failure, Marriage Planning Software, Prevention, Ta'aruf.*

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### INTRODUCTION

A marriage is a sacred union between two people, directed toward their deity. Beyond religious considerations, marriage is also governed by the laws of the country or state, supported by a robust legal framework, where every aspect of a marriage has its own constitution.

Pusat Studi Kependudukan dan Kesejahteraan Keluarga (Pusdeka) mentioned the number of failed marriage in Indonesia was enormous. In 2022 divorce case in Indonesia reached 516.000. When divided by 365 (number of days in a year) it is around 1.400. This number means in 1 day, in average there are 1.400 divorce cases that is accepted by all *Pengadilan Agama* (court for Islamic cases in Indonesia) across Indonesia (Efendi, 2023). Doctor Hasto said this is thought to be because a sane couple meets a toxic partner (Astuti, 2023), where the main element in creating a happy marriage is determining the right partner.

In the early 2000s, initiating a romantic relationship with someone you met through your cellular phone (smart phone) would have been difficult to imagine but currently, however, this is one of the most popular ways to meet people (Couch & Liamputtong, 2008; Rosenfeld & Thomas, 2012). A person can download dating applications (or dating apps) onto their cellular phone and meet potential romantic partners in the palm of their hand. In fact, 50 million individuals currently use just one popular dating app called Tinder; they spend approximately 90 minutes on this app per day and may check it up to 11 times per day (Newall, 2016). The present study connects this dating app phenomenon with personality literature, exploring how attachment orientation (people's characteristic approach to close relationships) is associated with the use of dating apps, the types of dating apps used, and people's motivations to use them (Chin, Edelstein, & Vernon, 2019). People can also choose specific dating apps to connect with others that suit their partner preferences or desired relationships. For instance, Tinder allows people to see photos of others but has little to no information about user preferences or demographic information.

People report that they consider Tinder for casual sex encounters and because it is trendy and exciting (Sumter, Vandenbosch, & Ligtenberg, 2017). For these people, being able to communicate online can be particularly valuable, especially for those who may have trouble expressing their sexual orientation and/or finding a partner (Castro & Barrada, 2020)

Both men and women dream of having an ideal spouse, someone who shares their views on life and religion. As technology becomes more sophisticated, the challenges of finding a companion or life partner grow more complex. Interactions through online applications often lead to more serious relationships, but these connections may carry risks due to a lack of understanding about each other's personal and social backgrounds (Pramana & Sunandar, 2022)

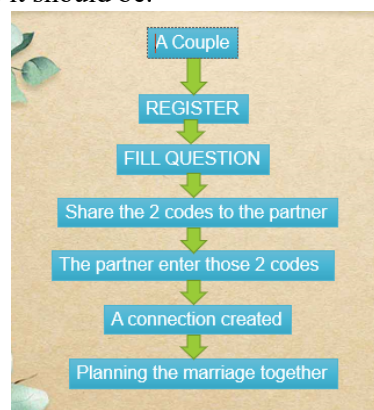
Therefore a software was designed and created to help couples to understand each other through several assessment criteria.

## METHOD

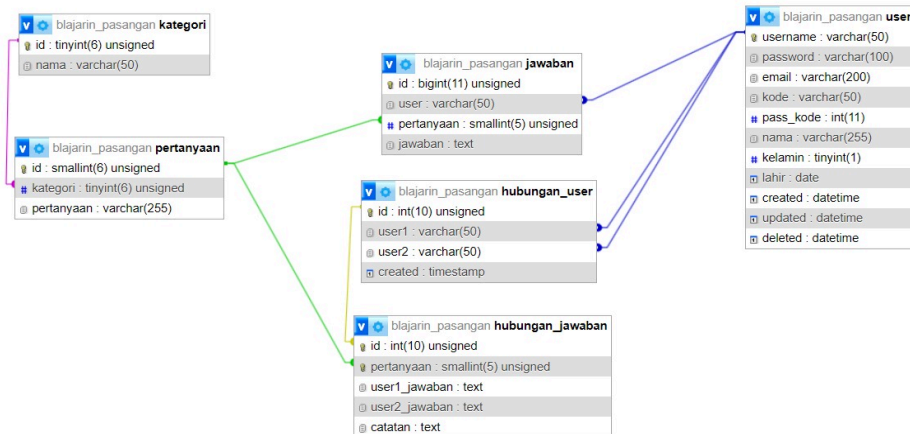
To develop software, we use the Scrum method. Scrum was developed by Jeff Sutherland in 1993 and is targeted to be a way of developing and managing software based on the rules of the Agile method. Scrum also provides an additional responsive workflow blueprint for developing software projects and managing products and applications. (Fernando, Anharudin, & Fadli, 2018). The steps of Scrum method are: a) Product Backlog, this step contains a list of software developer's tasks; b) Sprint Planning Product Backlog, where the project is broken down into Sprint Planning which consist of when and how the project will be finished; c) Sprint, in this step, there is a Daily Scrum where team members gather and work to ensure the development of the system is progressing.; d) Sprint Review, this is when the product is already finished and being reviewed; e) Retrospective Process, in this process the previous steps are being documented so that the next project can be done quicker. (Pramana & Sunandar, 2022).

The software of marriage failure preventing was created using the PHP programming language which displays important questions in character recognition where the results of filling in these questions can be recorded permanently before being shared in two directions with couples who want to continue their relationship to a more serious level. The recorded results cannot be changed but can be commented on by both parties so that they can plan for the future based on differences or even similarities in opinions found. The aim of this application is not to discuss the past but to organize the future as early as possible. It is hoped that this software can reduce the divorce rate, using partner recognition detection as early as possible.

Steps to be taken by the user to use the system (Figure 1) starts from a couple that already know each other and one of them want to figure out their spouse's background to determine the future of their relationship. This person then registers to the system and complete the user details. After that that person can fill answers to the questions provided by the system and after filling all the questions there are two codes that are automatically generated. The code can be given to the partner and can be inserted after the partner register. After the codes inputted by the partner, the partner needs to answer the same questions and their answers are connected. They can use the result that has been made permanent by the system as basis to plan their future. The database's data structure (Figure 2) shown the data that are needed and recorded so that the system can work as it should be.



**Figure 1. Steps that the user will take to use the system**



**Figure 2.**The Data Structure of the database

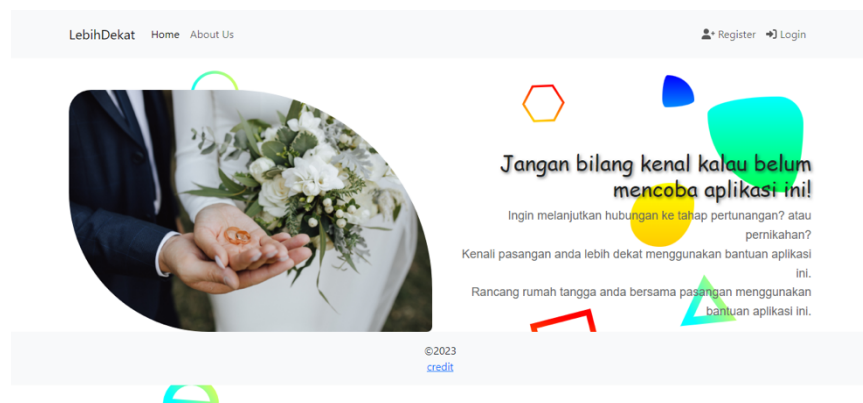
## RESULT AND DISCUSSION

### Result

The application design created based on the PHP programming language is as follows:

#### a. Home

The home screen is the first page of the application which provides an explanation of the application and contains the about us, register and login buttons.



**Figure 3.** Home page display

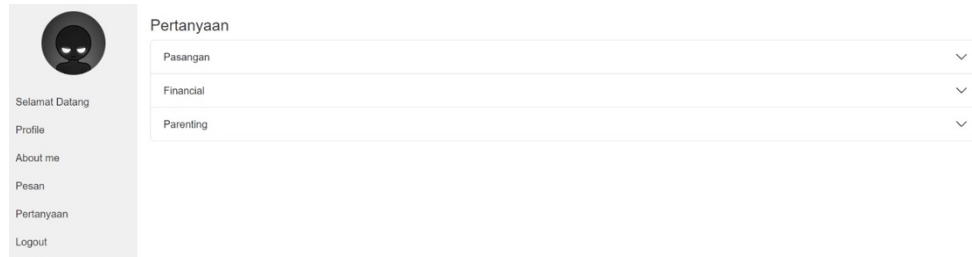
#### b. Registration Feature

This feature contains user data starting from name to contact number who can be contacted.

**Figure 4.** Registration page display

c. Login Feature

The login feature is an essential component of a secure and personalized user experience, allowing individuals to access their accounts, manage their information, and engage with various features and functionalities within a platform.



**Figure 5.** User's page display

d. Question Category Feature

The question category feature is a feature used to choose the question categories, the questions, and the inputs where user can answer the question. The answer of the questions determines the criteria for an ideal partner.

kategori	pertanyaan
1	3 Apakah anda ingin menunda mempunyai anak?
2	3 Berapa jumlah anak yang diinginkan?
3	2 Siapakah yang akan bekerja dalam rumah tangga?
4	2 Berapa jumlah pemasukan yang diharapkan setiap bul...
5	1 Umur pasangan ideal yang anda harapkan?
6	1 Secara fisik, pasangan seperti apa yang anda harap...
7	1 Pasangan dengan tingkat pendidikan apa yang anda h...
8	1 Anda menghindari keluarga dari pasangan yang seper...
9	1 Apakah agama yang anda harapkan dari pasangan anda...
0	1 Anda menginginkan pasangan dari suku/ras mana?
1	1 Bagaimana anda menunjukkan kasih sayang kepada pas...
2	1 Apakah yang membuat anda merasa disayangi/dicintai...
3	1 Seberapa terbuka anda terhadap pasangan? Dan berap ...

**Figure 6** Few of Question in database

e. The Chat Feature

The chat feature can be used after the man/woman has chosen one of the opposite sex as their potential partner. This communication process is not as free as regular chat features because the application admin is tasked with monitoring conversations to ensure that conversations do not occur that deviate and violate norms.

## Discussion

This application is intended for prospective bridal couples who want to start a relationship leading to marriage but can also be used for anyone to know the compatibility between the person and the spouse, including health, children, and the future life of marriage. This is relevant to the Pre-Marriage Class application (Sumardilah, Hastuti, & Aprina, 2023) an Android-based pre-marital class application was developed as a learning medium for prospective brides and grooms to answer the problem of the limited time that the bride and groom have to participate in class activities and the AmeeSehat App (Wiyanti, Oenzil, Masrul, & Djafri, 2021) are designed to enhance the understanding and interaction between couples before marriage, and focus on measuring the usability and usefulness of the app for future brides and grooms in terms of enhancing awareness, attitude, intention, and readiness for marriage. These applications and platforms provide tools and resources for couples to learn about each other, improve their relationship, and make informed decisions about their future together.

The application was build using PHP, MySQL, HTML, CSS technologies. The main function of this application is to match the dream criteria of each prospective bride and groom, this application contain several points such as on the Home page (Figure 3) there is an optional category, namely about us, which contains information about the function of the application, contact person, and some

information related to the developer. The registration category (Figure 4) contains data that needs to be filled in by the user, including: username, password, name, date of birth, gender. Once registered, the user can log in and continue by looking for the right partner through the questions and answers provided (Figure 6)

## CONC LUSION

Based on the result of our findings, we created an application to help couples to know about their partner through answering questions that we prepared. The focus of these questions is not to find faults or collection data about user's past but to help them plan their marriage life before it happens by reading both parties answer and planning their life from those answers. There is also a possibility that after discussing the answer, they found out that there is no match between them or the gap between them is big enough and make them re-think their choice about the relation. Hopefully the application that has been developed can help reduce the number of failed marriage by helping people to understand their partner better and by planning their marriage life.

## REFERENCES

- Astuti, T. W. (2023). *Kepala BKKBN: Penyebab Banyaknya Perceraian karena Toxic People*. Jakarta: Media Center BKKBN. Retrieved November 15, 2023, from <https://www.bkkbn.go.id/berita-kepala-bkkbn-penyebab-banyaknya-perceraian-karena-toxic-people>
- Castro, Á., & Barrada, J. R. (2020). Dating Apps and Their Sociodemographic and Psychosocial Correlates: A Systematic Review. *International Journal of Environmental Research and Public Health*, 17(18), 1-25. doi:10.3390/ijerph17186500
- Chin, K., Edelstein, R. S., & Vernon, P. A. (2019). Attached to dating apps: Attachment orientations and preferences for dating apps. *MMC (Mobile Media & Communication)*, 7(1), 41-59. doi:<https://doi.org/10.1177/2050157918770696>
- Couch, D., & Liamputtong, P. (2008). Online dating and mating: The use of the Internet to meet sexual partners. *Qualitative Health Research*, 18(2), 268-279. doi:10.1177\_1049732307312832
- Efendi, A. S. (2023, July 28). *PUSDEKA*. Retrieved from Mengapa Kasus Perceraian di Indonesia Tinggi?: <https://pusdeka.unu-jogja.ac.id/opini/mengapa-kasus-perceraian-di-indonesia-tinggi/>
- Fernando, D., Anharudin, & Fadli. (2018). RANCANG BANGUN APLIKASI E-PORTOFOLIOHASIL KARYAMAHASISWAUNSERAMENGGUNAKAN METODE SCRUM. *Jsil: Jurnal Sistem Informasi*, 5(1), 1-6. doi:<https://doi.org/10.30656/jsii.v5i1.579>
- Hariono, T., Ashoumi, H., & Sujono, S. (2021). Implementasi Teknologi Air Cooler kepada Karang Taruna Desa Banjarsari. *Jumat Informatika: Jurnal Pengabdian Masyarakat*, 2(3), 136-141.
- Hariono, T., Kom, M., Widya, M. A. A., & Yaqin, N. (2022). Student Attendance Information System using Telegram Bot API and Visual Basic 6.0. *SAINTEKBU*, 14(02), 33-42.
- Newall, S. (2016). *Tinder: The online dating app everyone's talking about*. Retrieved from Marie Claire: <http://www.marieclaire.co.uk/life/sex-and-relationships/tinder-the-online-dating-appthat-everyone-s-talking-about-112522>
- Pramana, E. B., & Sunandar, A. (2022). Analisa Rancang Bangun Aplikasi Biro Jodoh Islami Menggunakan Algoritma Profile Matching Berdasarkan Platform Android. *Arcitech: Journal of Computer Science and Artificial Intelligence*, 2. doi:<http://dx.doi.org/10.29240/arcitech.v2i2.5834>
- Rosenfeld, M. J., & Thomas, R. J. (2012). Searching for a Mate: The Rise of the Internet as a Social Intermediary. *American Sociological Review*, 77(4), 523-547. doi:10.1177\_0003122412448050
- Sifaunajah, A., Hariono, T., & Chumaid, M. (2018). Penerapan Certainty factor pada Rancang Bangun Sistem Pakar Deteksi Organisme Pengganggu Tanaman (OPT) Semangka. *Journal of Computer Science and Visual Communication Design*, 3(1), 53-63.
- Sumardilah, D. S., Hastuti, e. P., & Aprina. (2023). The Effectiveness of Android-Based Pre-Marriage Class. *Jurnal Aisyah: Jurnal Ilmu Kesehatan*, 8(1), 173-178. doi:10.30604/jika.v8i1.1558
- Sumter, S. R., Vandenbosch, L., & Ligtenberg, L. (2017). Love me Tinder: Untangling emerging adults' motivations for using the dating application Tinder. *Telematics and Informatics*, 4(1), 67-78. doi:<https://doi.org/10.1016/j.tele.2016.04.009>
- Wiyanti, Z., Oenzil, F., Masrul, M., & Djafri, D. (2021). A Mobile Health App for Premarital Related Word Advice AmeeSehat Usability and Usefulness Evaluation Study. *Journal of Medical Sciences*, 474-480. doi:<https://doi.org/10.3889/oamjms.2021.5914>