ONLINE MARRIAGE REGISTRATION AND INFORMATION SYSTEM

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled "**Online Marriage Registration and Information System**", submitted by Shamiur Rahman, ID No:172-15-10165 and Sumaia Binte Taher, ID No:172-15-10153 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on *26 January 2023*.

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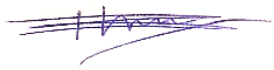

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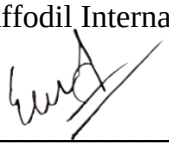

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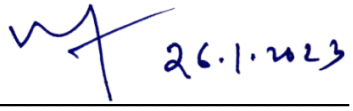

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We hereby declare that, this project has been done by us under the supervision of **Mr. Shah Md. Tanvir Siddiquee , Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree.

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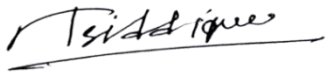

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Abstract

Today, we are surrounded by online platforms. There are many reasons for this. First, the COVID pandemic forced us to stay at home, so we had to do all the necessary work from home. Second, doing any work online is extremely simple. Marriage is a very important part of everyone's life. But many times, due to not knowing the correct information, many people are victims of extreme fraud. Our project aims to prevent fraud through a search portal, an online marriage registration process, and online scheduling of office appointments. There are many cases where one marriage is kept secret and the second marriage takes place. Even though a lot of research is done before marriage, sometimes the correct information is not available. Through our search portal, you can search for any person before marriage. It is a form of fraud to conceal another marriage. Our search portal is to get rid of this. Anyone who wants to can't secretly marry a second time. If someone has been divorced before, they cannot remarry by hiding it. We can also search here for bride and groom. The best thing about the bride and groom searching option of our sites is we have colossal information based on the bride and groom profile. So, if registered on the site you will get lots of options in your profile. According to our preference, we can find your dream partner, who matches our desire. The search is in the secure portal, so we can connect to the bride and groom as well. In this process we will be in a safe zone, so we don’t need to worry about our information. Married certificate download is another benefit of our project. In most cases, married couples need to always have at least two copies of their marriage certificate. They should keep one in a safe place such as a bank for personal documentation, and one for proof of marriage. Use a Marriage Certificate to Change Your Name; Sharing Health Benefits; Filing Taxes; Apply for a Loan or Mortgage; Proving Identity. All Kazi offices will be registered in this system, and these offices will be officially licensed by the Bangladesh Government. Then they will register all marriages using this website. As a result, the information of all the married people in Bangladesh will be stored in the search portal. So, people will get real benefits if they use this system. This online marriage registration process and search system is helpful for common people.

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Introduction

1.1 Introduction

The Online Marriage Registration and Information System is a comprehensive and innovative solution for couples looking to streamline and organize various aspects of their married life. It is a web-based application that allows couples to manage and track tasks, events, finances, and communication with each other in a convenient and efficient manner. The system was developed with the aim of providing couples with a tool to help them stay organized and keep track of their responsibilities and commitments, while also fostering better communication and understanding within their relationship.

The development of the Married Management System involved a number of challenges, including the need to design an intuitive and user-friendly interface, as well as the need to integrate various features and functionality into the system. In order to overcome these challenges, a thorough analysis of the requirements and needs of the target users was conducted, and a prototype was developed and tested to ensure that the system met the expectations of its users.

The Married Management System was implemented using a combination of technologies, including HTML, CSS, JavaScript, and PHP. The system was tested and evaluated using a variety of methods, including usability testing, user acceptance testing, and performance testing. The results of these tests showed that the system was able to meet the needs of its users and provided a convenient and efficient way for couples to manage and organize various aspects of their married life.

Overall, the Married Management System represents a valuable tool for couples looking to improve their organization and communication within their relationship. It provides a convenient and efficient way to manage tasks, events, finances, and communication, and has the potential to significantly improve the quality of life for couples who use it.

1.2 Project Motivation

The motivation for the Online Marriage Registration and Information System project was to address the challenges that many couples face in managing and organizing various aspects of their married life. These challenges can include managing tasks and responsibilities, coordinating schedules, tracking finances, and maintaining open and effective communication with each other. Online Marriage Registration and Information System is developed as a solution to these challenges, with the goal of providing couples with a convenient and efficient way to manage and organize various aspects of their married life.

There are several reasons why the Online Marriage Registration and Information System may be particularly useful for couples. First, it provides a centralized platform for couples to track and organize tasks, events, finances, and communication with each other. This can help couples stay on top of their responsibilities and commitments, and avoid confusion or misunderstandings. Second, the system allows couples to communicate and share information with each other in real-time, which can improve communication and understanding within the relationship. Finally, the Married Management System can help couples manage their finances more effectively, by allowing them to track expenses, set budget goals, and monitor their progress towards financial goals. Overall, the Married Management System aims to provide couples with a tool to help them stay organized, communicate effectively, and manage their finances in a more efficient and effective manner

1.3 Benefits of the Project

As this system is created mainly for easy communication for the couples. Here is the ten potential benefits of the Online Marriage Registration and Information System.

Improved organization: The Married Management System provides a central platform for couples to track and organize tasks, events, finances, and communication with each other. This can help couples stay on top of their responsibilities and commitments, and avoid confusion or misunderstandings.

Better communication: The system allows couples to communicate and share information with each other in real-time, which can improve communication and understanding within the relationship.

Enhanced financial management: The Married Management System can help couples manage their finances more effectively, by allowing them to track expenses, set budget goals, and monitor their progress towards financial goals.

Increased efficiency: The system provides a convenient and efficient way for couples to manage various aspects of their married life, saving time and effort compared to traditional methods.

Improved quality of life: By helping couples stay organized, communicate effectively, and manage their finances more efficiently, the Married Management System has the potential to significantly improve the overall quality of life for couples who use it.

Customizable features: The system allows couples to customize various features and settings to meet their specific needs and preferences.

User-friendly interface: The Married Management System has a user-friendly interface that is easy to navigate and use.

Secure and private: The system uses secure and private data storage and communication methods to protect the privacy of its users.

Accessible from any device: The Married Management System is web-based and can be accessed from any device with an internet connection.

Scalable and adaptable: The system is scalable and can be easily adapted to meet the changing needs and preferences of couples over time.

1.4 Methodology

This project is containing following methodology

- Defining the goals and objectives of the project, identifying the target users and their needs, and creating a project plan.

- Spotting the trouble and obstacle.
- Demand review of the new system.
- Design a prototype of the project and implement it in the system.

1.5 Summary

After all of this we discussed about our project theme, idea, goals in this chapter. After this we will discuss about how we will complete our work in this project. What will be the future outcome? Which obstacle came out when we created this project and many more on this whole project.

Chapter 2

Background

2.1 Preliminaries

In this Online Marriage Registration and Information System project we used a lot of software application. For example- we use Sublime text for PHP, JavaScript which use in backend code. By Firefox Developer we find error from JavaScript, Laravel and any design. Postman is another software application which check that data store correctly in database or data can communicate correctly with system etc. in database. By using WAMP, we can use our server normally. Adobe XD software was used for implementation the design in primary stage such as user interface, user experience design etc. Apart from all of this application, we used some application too so that our system could look attractive as well as user-friendly to the general users.

2.2 Related Works

Related works of the Online Marriage Registration and Information System project would refer to other systems or applications that have been developed to address similar challenges or address similar goals. These may include other tools or platforms that aim to help couples manage and organize various aspects of their married life, such as task management, event planning, communication, and financial management.

Examples of related works of the Online Marriage Registration and Information System System may include other web-based or mobile-based applications that provide similar functionality, such as:

Task management systems: These systems allow couples to create and assign tasks, set deadlines, and track progress towards completion.

Event planning systems: These systems allow couples to create and schedule events, such as appointments or outings, and share details with each other.

Communication systems: These systems allow couples to send messages, share files, and collaborate on projects in real-time.

Financial management systems: These systems allow couples to track expenses, set budget goals, and monitor their progress towards financial goals.

2.3 Comparative Studies

A comparative study of the Online Marriage Registration and Information System is an analysis or evaluation of the system that compares it to other similar systems or applications that have been developed to help couples manage and organize various aspects of their married life. Its involves identifying a set of criteria that will be used to compare the Smart Kazi Management System to other systems, and then collecting and analyzing data on the various systems based on these criteria. The results of the comparative study can be used to identify the strengths and weaknesses of the Online Marriage Registration and Information System System, as well as areas where it excels compared to other similar systems.

Some examples of criteria that might be used in a comparative study of the Online Marriage Registration and Information System might include:

Usability: How easy is the system to use and navigate?

Range of features and functionality: Does the system offer a wide range of features and functionality that are useful for couples looking to manage and organize various aspects of their married life?

Integration with other tools or platforms: Does the system integrate seamlessly with other tools or platforms that couples might use, such as calendar or financial management apps?

Security and privacy: Does the system have robust security and privacy measures in place to protect the sensitive data of its users?

Cost and value: Is the system priced fairly, considering the range of features and functionality it offers?

By comparing the Online Marriage Registration and Information System System to other similar systems using these and other criteria, a comparative study can provide valuable

insights into the system's performance and effectiveness, and help to identify areas where it excels compared to other similar systems.

2.4 Scope of the Problem Solution

The scope of the problem that the Online Marriage Registration and Information System aims to solve is the challenges that many couples face in managing and organizing various aspects of their married life. These challenges can include managing tasks and responsibilities, coordinating schedules, tracking finances, and maintaining open and effective communication with each other.

The solution provided by the Online Marriage Registration and Information System is a comprehensive and innovative platform that allows couples to manage and track tasks, events, finances, and communication with each other in a convenient and efficient manner. The system aims to provide couples with a tool to help them stay organized and keep track of their responsibilities and commitments, while also fostering better communication and understanding within their relationship.

Online Marriage Registration and Information System is broad and encompasses a wide range of features and functionality that are relevant to couples looking to manage and organize various aspects of their married life. Some examples of the features and functionality that may be included in the system might include:

Task management: Couples can create and assign tasks, set deadlines, and track progress towards completion.

Event planning: Couples can create and schedule events, such as appointments or outings, and share details with each other.

Communication: Couples can send messages, share files, and collaborate on projects in real-time.

Financial management: Couples can track expenses, set budget goals, and monitor their progress towards financial goals.

Overall, the scope of the problem solution provided by the Smart Married Management System is comprehensive and designed to meet the needs and challenges of couples looking to improve their organization and communication within their relationship. In this corona pandemic it's really hard to find doctor in available time in nearest area also it's tough to get schedule from doctor in suitable time. But by using system one can easily manage those problems.

2.4.1 Scope of the problem

As we discussed before there are lot of problems occurs when we decided to start this project. Main problem is there are lot of unlettered people who does not know how to manage all married related works and finding life partner. We try to make our system most user-friendly.

2.4.2 Solution

We try to make our project as much as we can user-friendly to the users. Also, people can easily login to the site with his/her phone number with the help of OTP. Also, all the feature are easily under stable to the people. Payment method also easy in here because we add AamarPay method which available almost every area in our country. Also, our system is available 24*7 to all the users as per availability of couples and guardians also.

2.5 Challenges

There are likely to have been a number of challenges faced during the development of the Online Marriage Registration and Information System System. Some potential challenges that we may have encountered could include:

Designing an intuitive and user-friendly interface: This is particularly important for the Online Marriage Registration and Information System System, as it is intended for use by couples who may have different levels of technical expertise.

Integrating various features and functionality: Another challenge of developing the Online Marriage Registration and Information System may have been integrating a wide range of features and functionality into the system, while still ensuring that the interface remained intuitive and easy to use.

Ensuring security and privacy: Ensuring the security and privacy of the system and its users was likely a top priority for the development team. This may have required implementing robust security measures and data protection protocols to ensure the sensitive data of the system's users was kept private.

Testing and evaluation: it allowed the development team to ensure that the system was functioning properly and meeting the needs of its users.

Meeting the needs of the target users: we ensure that the system met the needs and expectations of its target users (i.e. couples) was likely a key challenge faced by the development team. This may have required conducting research and gathering feedback from users to identify their needs and preferences.

Chapter 3

Requirement Analysis

3.1 Agile SDLC Modeling

The Agile SDLC application development is a development methodology and projects management approach that focuses on delivering software in small bits and making modifications as needed. During the development process, the requirements and results can be examined and corrected, allowing the team to offer exactly the product that the customer wants.

Every iteration incorporates cross-functional teams working on several areas at the same time, such as

- Planning
- Requirements Analysis
- Design
- Coding
- Unit Testing and
- Acceptance Testing

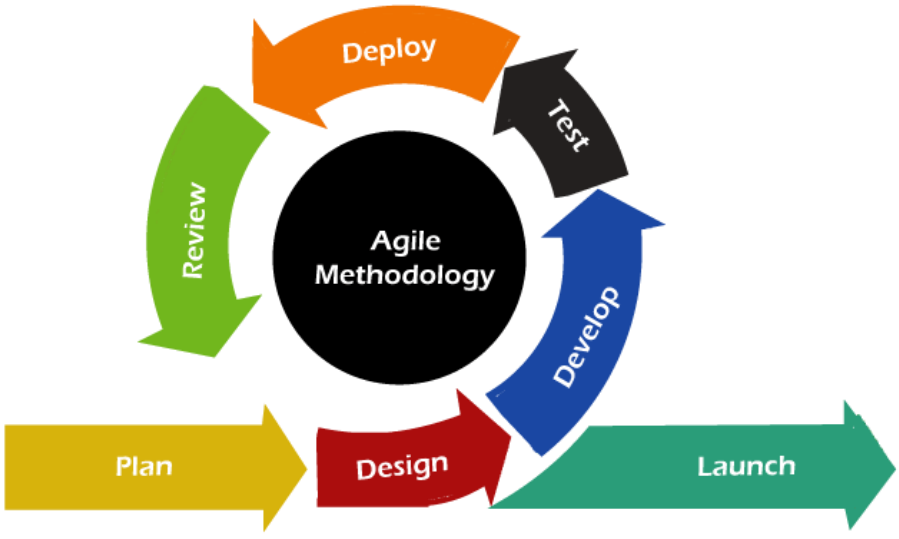

Figure 3.1: Agile SDLC is a flexible and collaborative approach to software development. It allows for changes and adjustments throughout the process.

3.2 Requirement Collection and Analysis:

This is a crucial step in gathering requirements and incorporating them into the analysis. We will now outline some of the requirements listed below for the creation of this application.

3.2.1 Hardware Requirement

Table 3.1 Hardware Requirement

Sl.	Components	Minimum
1	CPU	Intel Core i5 10th Generation
2	Ram	8GB DDR4 2400 MHz
3	SSD	Samsung 256 GB
4	Lan Card	TP-Link Gigabit Lan Card

3.2.2 Software Prerequisites

In our Online Marriage Registration and Information System web app, we utilize a few of innovation to advance. Those are:

- Chrome, Firefox Developer, Postman and etc.
- WAMP Server for Apache, MySQL and PhpMyAdmin
- Sublime and Visual Studio Code
- PHP 8.0
- HTML, CSS and JavaScript
- jQuery
- Bootstrap 4
- Adobe XD

3.3 Use Case Modeling and Description

A use case is a written description of how clients will complete tasks on your website. It traces a system's activities from the perspective of any user since it responds to an inquiry. Each use case is modeled as a series of simple actions that begin with the user's goal and end when that goal is met.

3.3.1 Use Case

A few additional young software systems/programming require the use of a use case graph. The use case chart explains the general rationale, but not the actual approach to get it started or the basic (how) plan to follow.

Cases can be used to express both printed and visual representations (such as UML) in the future. One of the most important rules of use case modeling is that it allows us to plan the venture criteria.

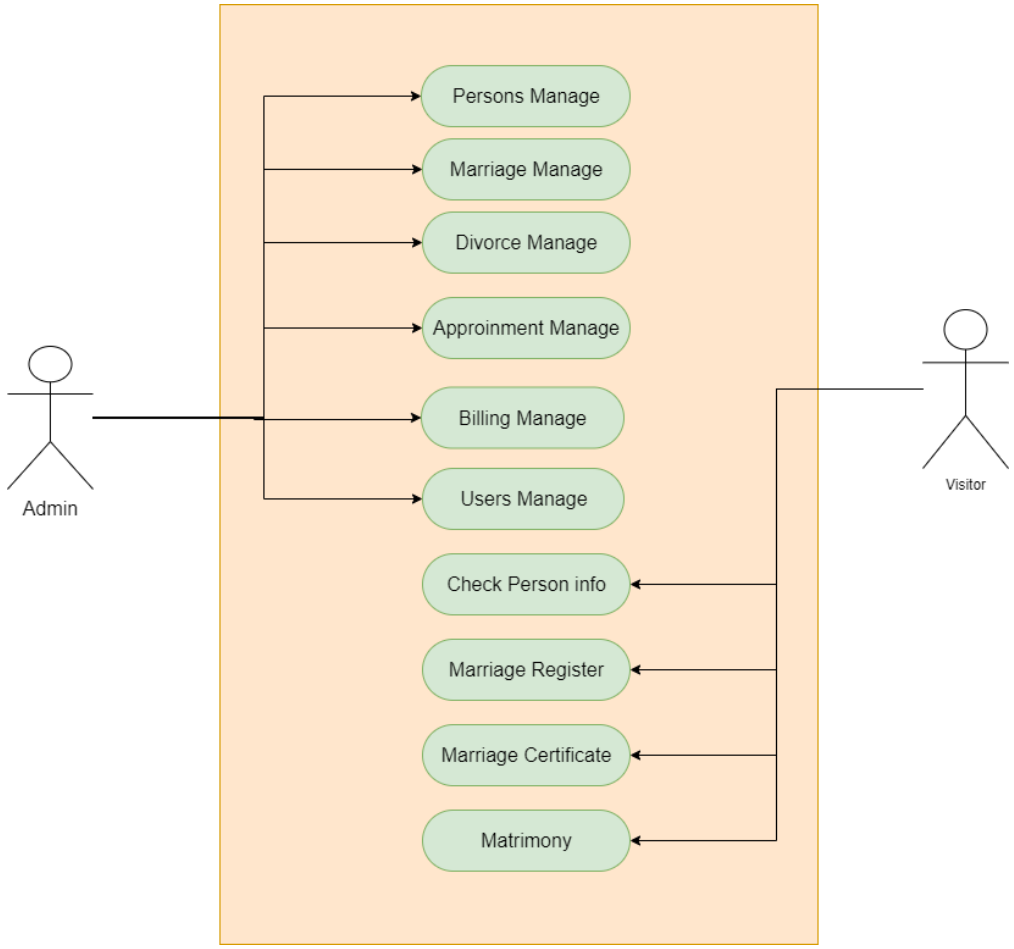

Figure 3.2: Admin use case diagram displays actions: managing users, viewing reports, configuring settings.

3.3.2 DFD diagram

A data flow diagram, often known as a DFD, is a project cycle management tool that is used to explain more complex processes to people who aren't familiar with them.

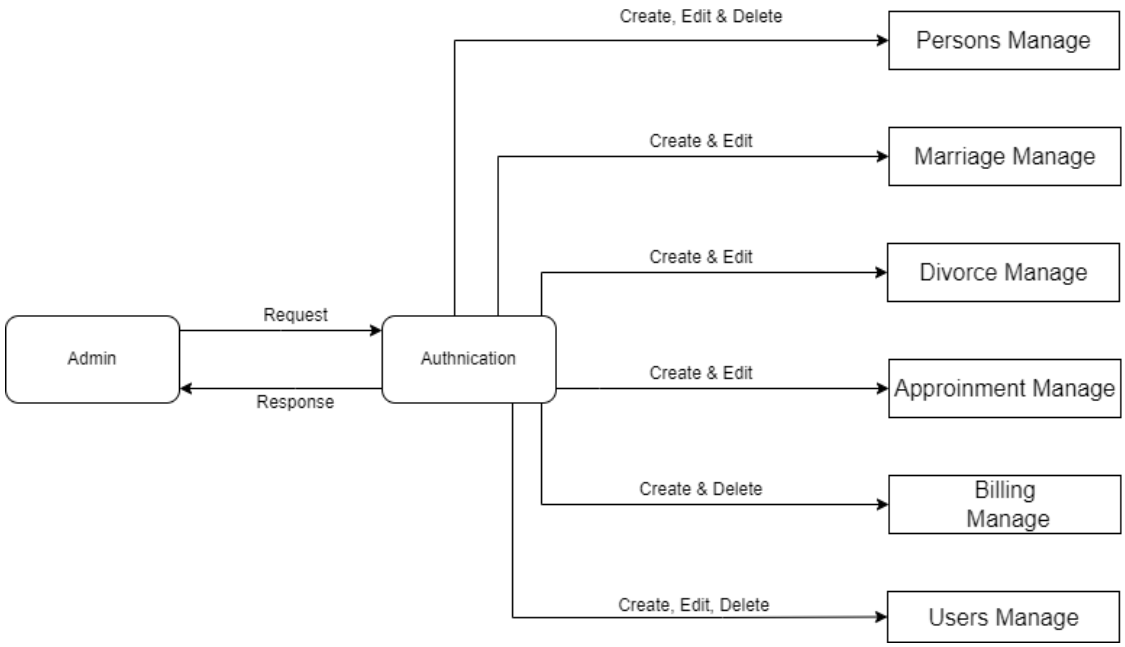

Figure 3.3: DFD for admin shows information flow between admin, users, and systems in account management, reporting, and system setup.

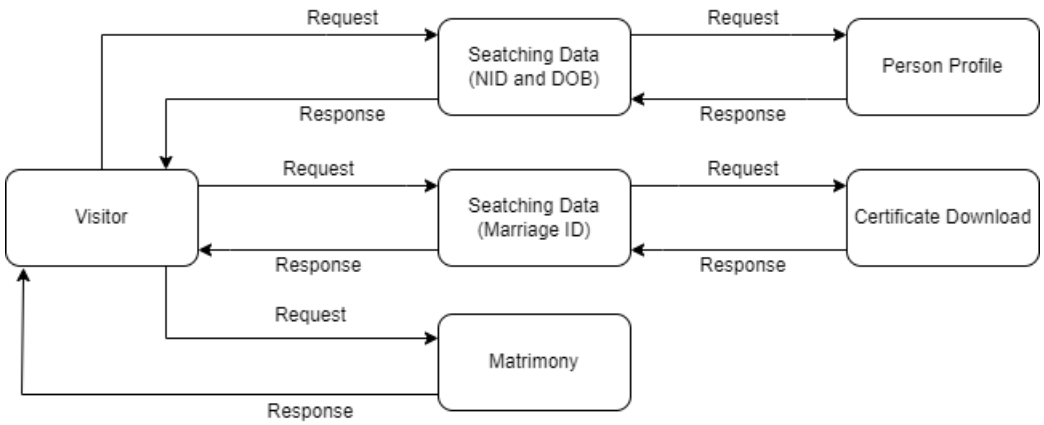

Figure 34: DFD for visitor shows flow of information between users, and systems.

3.4 Logical Data Model

The flowchart includes this diagram. This document explains in detail how the user and the reader must be connected. The usage of these photos to build relationship diagrams in software engineering, computer engineering, business, and education thesis is one of the most common uses of these images.

As well as research This diagram can be used to easily describe this field. In just a few minutes, users will be able to grasp the entire system. The DB design model is another name for it. With the sign, they can create a collection of tables, attribute names, and connecting lines. We can now observe this process in detail and understand how we described the entire application in the database design. We've also included a schematic of the application below.

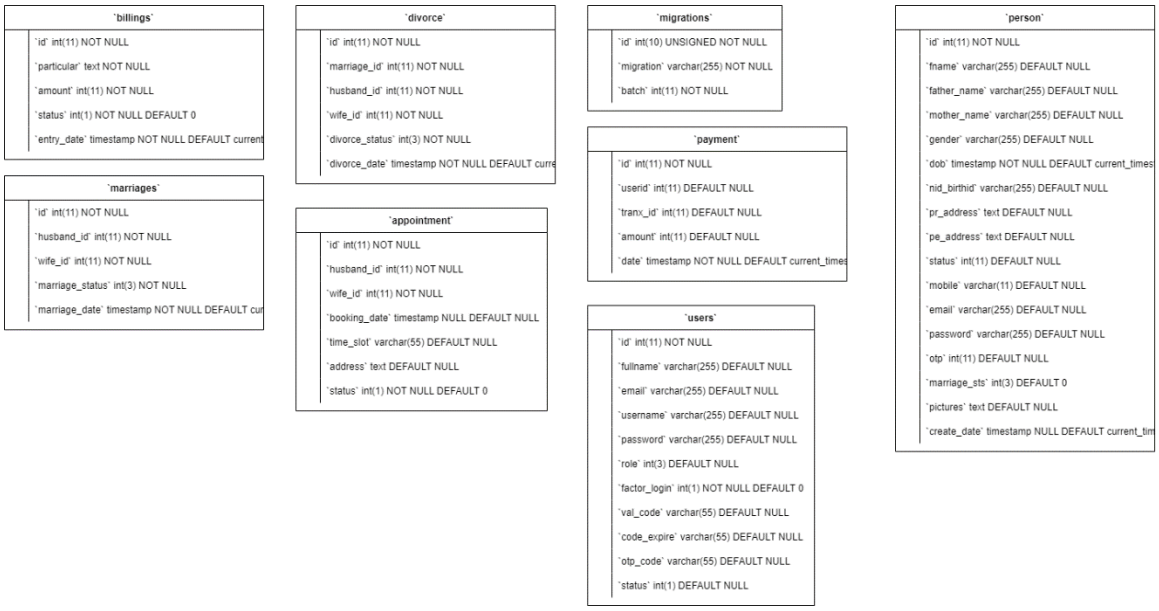

Figure 3.5: Designing a database to efficiently store and organize data, both logically and physically.

3.5 Design Requirement

The design requirements for our project will differ from those of anyone else, because yours will apply to your specific problem statement and the product, system, or experience that you are designing. In the table are a few examples of design requirements. Your

requirements will be more specific and directly related to meeting the needs of your project's users.

- Functionality or feature set.
- Type of user interface.
- Customizability.
- Page Speed.
- Responsive.
- Type of Error Handling.
- Programming language written in PHP and JavaScript.
- Portability.
- Ability to modify to work.

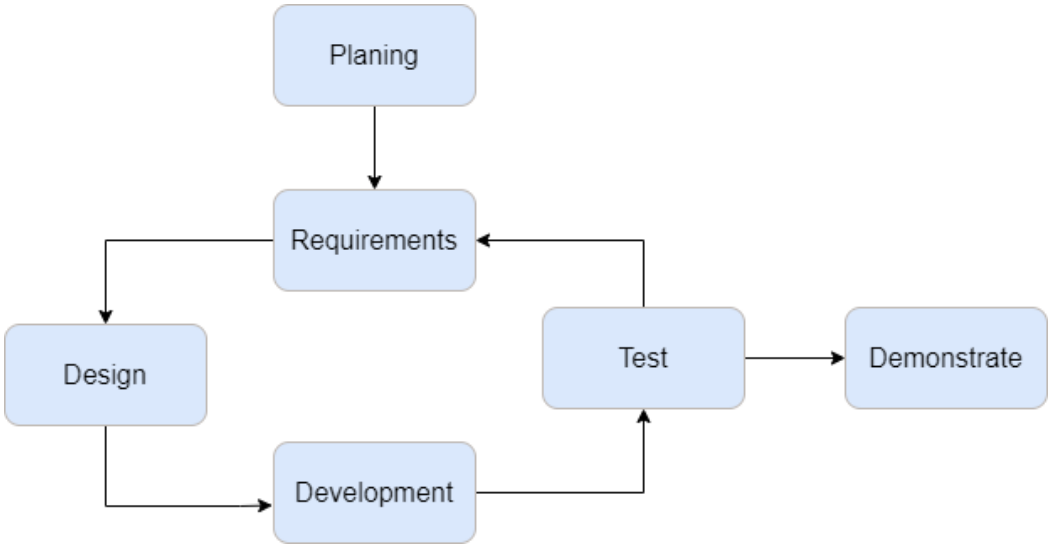

Figure 3.6: Designing the specific needs and functionality for a project.

Chapter 4

Design Specification

4.1 Front-end Design

We have endeavored to establish a user-friendly design for users in our Online Marriage Registration and Information System solution system. We designed the systems in such a way that users will have no problem utilizing them.

Now we've attempted to create a table that provides an overview of the system:

Table 4.1 Activity list

Activity Name
Authentication with Mobile
Web App layout
Role wise button and links
User and Admin Login and register
Dashboard design with marriage, divorce and appointment system
Billing list with search option
Add appointment Manage with time & date
Delete person and add person
User search
Appointment date, time slot and address
Book appointment smart kazi.
User Appointment and manage
Person management
Appointment management
admin management
Bill management
Profile manages
Login details
Appointment management

4.2 Back-end Design

The Online Marriage Registration and Information System solution is a user-friendly web-based app. This is a location-based application. The user will receive real-time information depending on their current position. Data from the database will be given to the user based on their location. Users can't access other role or back-end access. This framework can be simply demonstrated to anyone in any of these combinations.

4.3 Interaction Design and UX

Admin can set up appointment with users on the dashboard with this system. This allows the user to meet to them as soon as possible to achieve their goal .

4.3.1 Appointment

Admin may view and control their appointments. They will be able to view the appointment time, date, and users location. Admin have the ability to manage their appointments and cancel them if necessary.

4.3.2 Payment

Patients can pay with a variety of methods, including bKash and rocket. Patients can use these payment methods to fund their e-wallet account and then pay their doctor fees or pharmacy order payment.

Chapter 5

Implementation and Testing

5.1 Implementation of Database

In this application, we used DBMS or (MySQL). MySQL is a database that allows web browsers to connect to servers. These are the Online Marriage Registration and Information System Application's database tables. This is an excellent option for the most effective Online Marriage Registration and Information System. We've proven it in the video below. Below is a list of examples.

5.2 Implementation of Front-end Design

5.2.1 Front-end Design of User

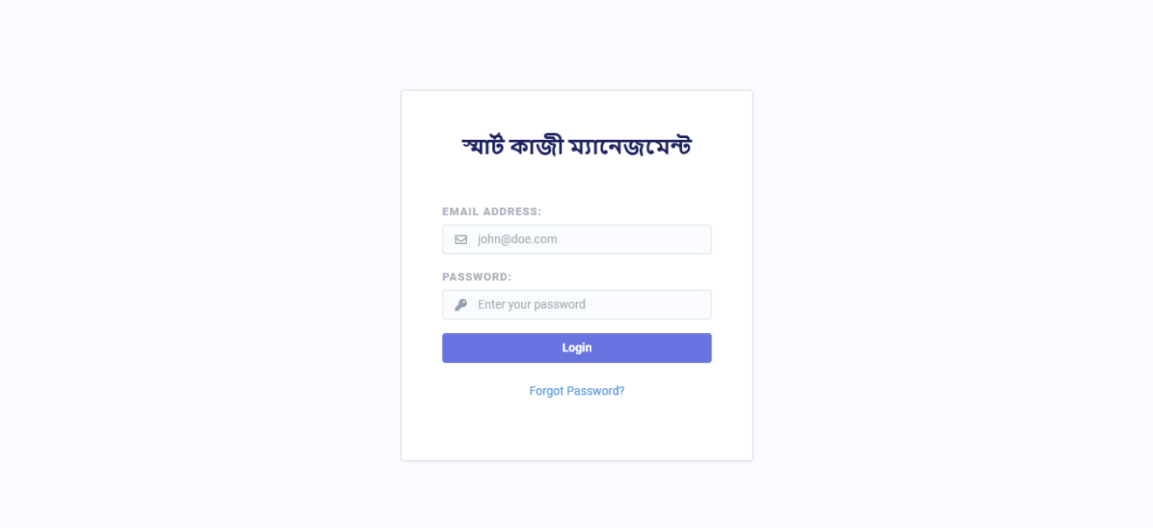

Figure 5.1: Admin user authentication and access management.

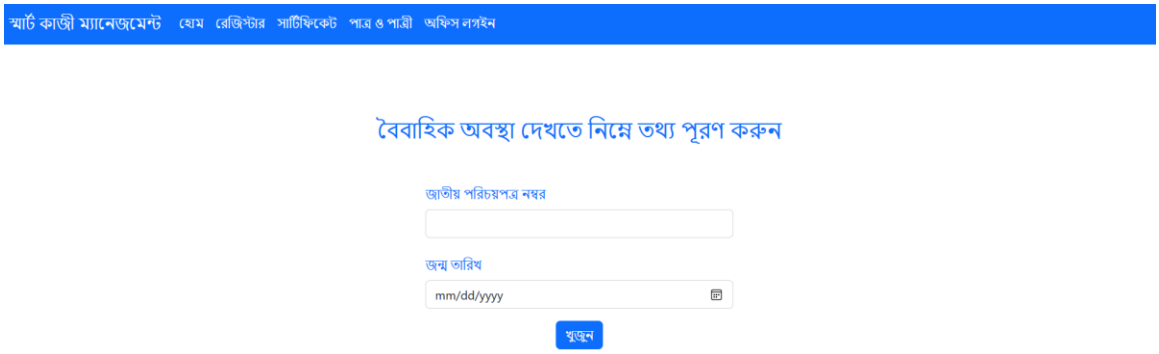

Figure 5.2: Verifying the marital status of an individual.

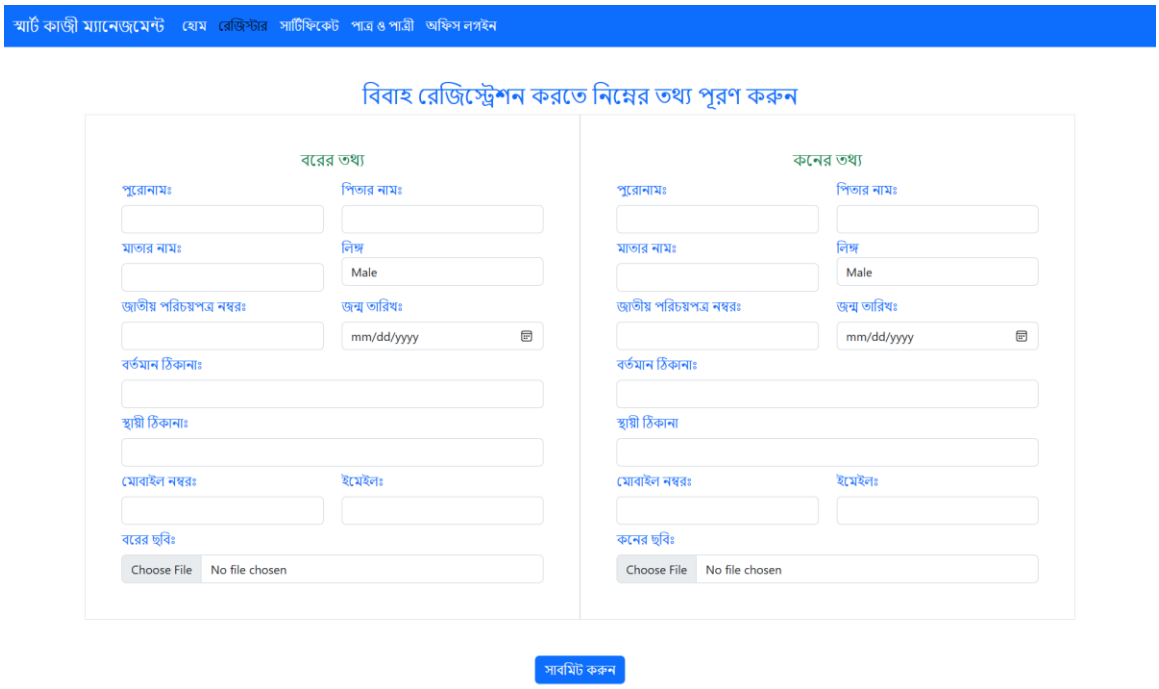

Figure 5.3: A digital platform for registering and maintaining records of marriages.

Figure 5.4: A system for generating and delivering marriage certificates electronically.

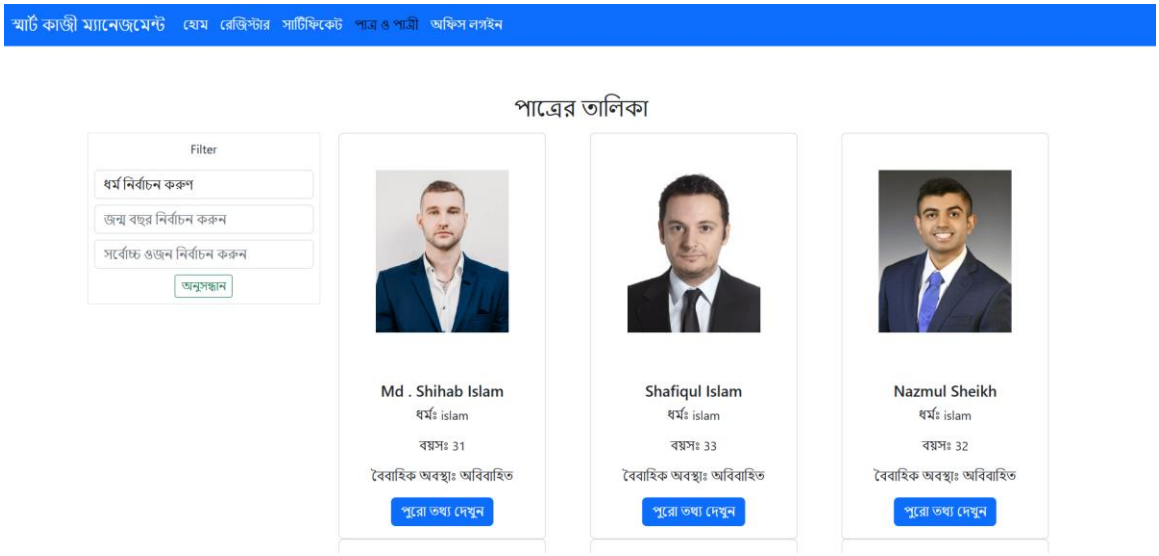

Figure 5.5: A digital platform for matchmaking and facilitating the process of marriage.

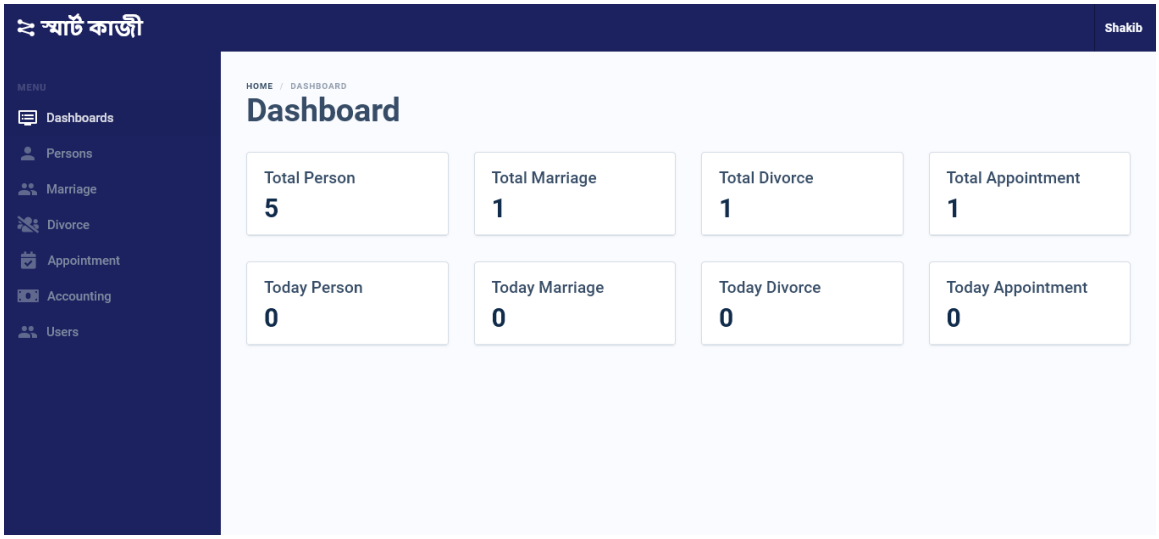

Figure 5.6: A web-based interface for managing and monitoring the performance of a system or application.

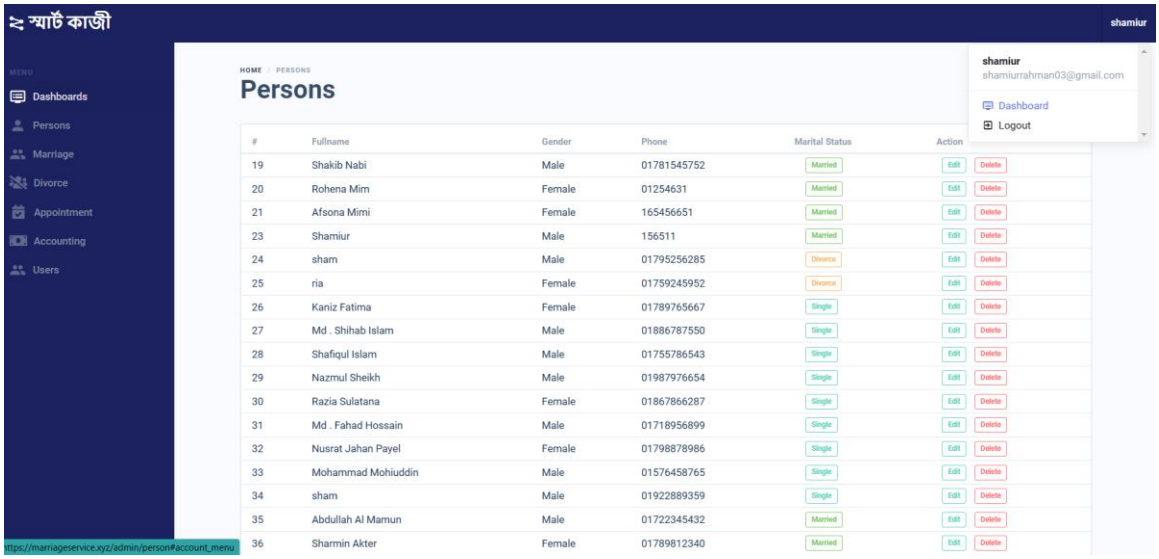

Figure 5.7: A system for managing and maintaining records of persons.

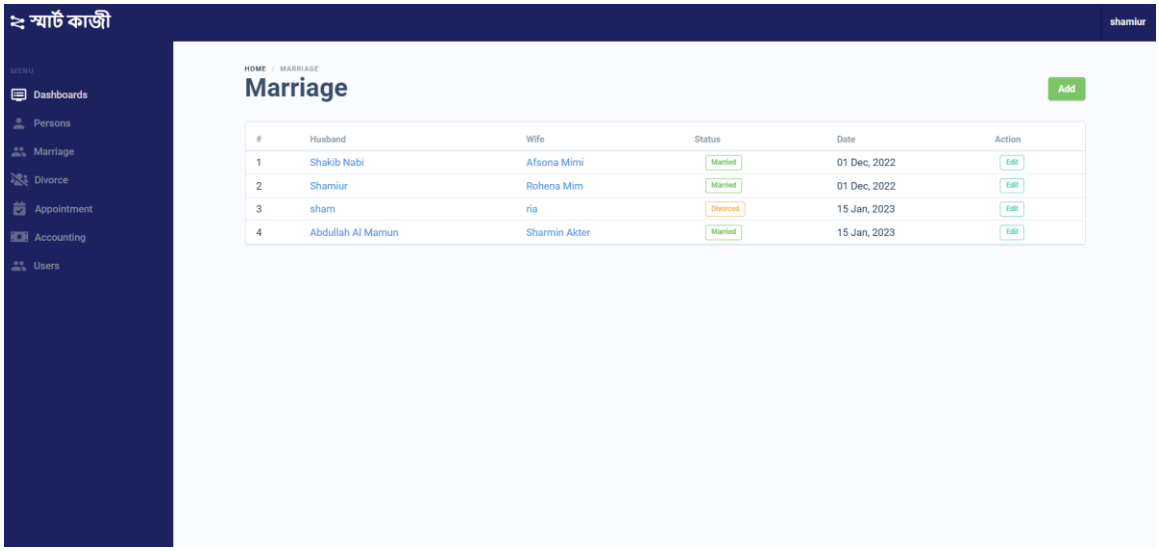

Figure 5.8: A system for managing and maintaining records of marriages.

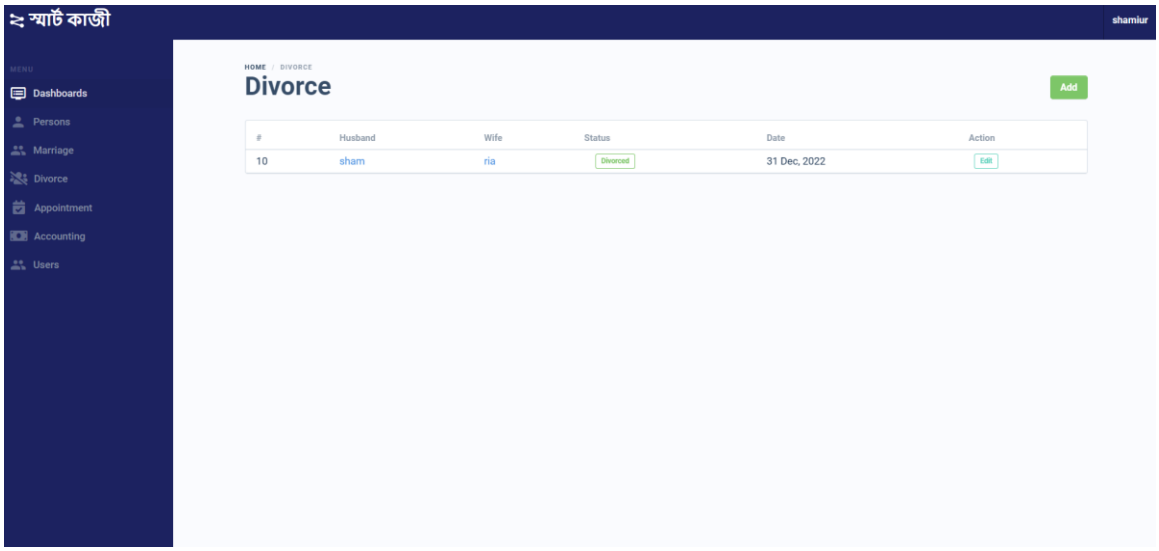

Figure 5.9: A system for managing and maintaining records of divorces.

5.3 Implementation of interactions

In this section, we can understand how it works. How and how easily the user will pick it up.

5.4 Testing implementation

When we created this application, we contacted some clients around to us to find out some of their problems. And we've tried to focus on those problems. Then we worked in collaboration with some E-commerce web application. We have received positive results for this application.

5.5 Test result and reports

Outcome of the testing is shown in table below:

Table 5.1 Test Report

Case ID	**D**ate	**T**ester	**D**esign	**User Experience**	**Recommended for others**
1	**28-01-22**	**Shuvo**	**Good**	**Good**	**Yes**
2	**28-03-23**	**Nabi**	**Good**	**Good**	**Yes**
3	**29-08-23**	**Rifat**	**Good**	**Good**	**Yes**

Chapter 6

Conclusion and Future Scope

6.1 Conclusion

This project is one of the dream works for every member of our team. We worked together, discussed together, research together and finally we are able to build this system completely. Thanks to Almighty Allah first of all, and dedication of ours can make this project successful in time. We started our work on this project one year ago and we successfully make it in this year. And we can confidently say that our project can help many people all over our country. Lot of people inspire us on this project. We thank to all of them. Specially our friends, families, teachers, relatives etc. We desire one day our project will go worldwide and all over the world people will appreciate us and also, we able to make new project for future for betterment of our world and people.

6.2 Scope for Further Development

The scope for further development of the Smart Married Management System would refer to the potential areas in which the system could be improved or enhanced in the future. We will include the addition of new features or functionality, improvements to the system's user interface or design, or the implementation of new technologies or tools to enhance the system's performance and effectiveness.

Some potential areas for further development of the Smart Married Management System might include:

Adding new features and functionality: The system will be expanded to include additional features and functionality that would be useful for couples looking to manage and organize various aspects of their married life. For example, the system enhanced to include tools for managing household chores, coordinating childcare, or tracking health and wellness goals.

Improving the user interface and design: The system's user interface and design we will improved to make it even more intuitive and easy to use. This might involve redesigning the layout and appearance of the system, or adding new features such as personalized dashboard views or customizable notifications.

Integrating with other tools and platforms: The system could be enhanced by integrating with other tools and platforms that couples might use, such as calendar or financial management apps. This would allow couples to more easily manage various aspects of their married life within a single, cohesive platform.

Implementing new technologies: The system could be improved by incorporating new technologies or tools that enhance its performance and functionality. For example, the system might be enhanced by incorporating artificial intelligence or machine learning algorithms to provide personalized recommendations or insights to couples based on their data and usage patterns.

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