Tribhuvan University

Faculty of Humanities and Social Sciences

A PROJECT REPORT ON

Wistie-A Social Networking Site

Submitted to:

Department of Computer Application

Birendra Multiple Campus

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by

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Under the Supervision of

Sobaraj Paudel

Date: 2082/02/09

Supervisor's Certificate

Tribhuvan University

Faculty Of Humanities and Social Sciences

Birendra Multiple Campus

Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by Manjila Adhikari entitled "**Wistie -A Social Networking Site**" in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

.....

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Letter of Approval

This is to attest to the fact that this project was completed by MANJILA ADHIKARI entitled "**WISTIE- A SOCIAL NETWORKING SITE**" in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

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Abstract

Wistie represents an innovative approach to social networking platforms majorly focused on friendship making/matching designed to foster genuine friendships through shared wishlists and interests. Unlike traditional social media platforms, Wistie focuses on meaningful connections by analyzing users' goals and personal preferences, employs admin-moderated profiles, and matches users via content-based filtering. The system features real-time chat, wishlists and interests-driven recommendations, and a secure interface, creating a space for meaningful non-romantic connections

Acknowledgement

I would like to express my heartfelt appreciation to my project supervisor and also the Coordinator of the BCA program at Birendra Multiple Campus, Mr. Sobaraj Paudel, for his invaluable guidance and support throughout the completion of this project and for his encouragement and guidance in undertaking this website development project. His expertise and advice played a crucial role in the successful and timely accomplishment of my goal.

I am grateful to my parents for their unwavering kindness and patience throughout my academic journey, and to Birendra Multiple Campus for providing me with a platform for computer education and the necessary resources. Lastly, I would like to acknowledge all the individuals who have supported me behind the scenes, helping me to achieve my goal in a timely manner.

Table of Contents

List of Abbreviations

CSS: Cascading style sheet

DFD: Data Flow Diagram

ER: Entity Relationship

HTML: Hyper Text Markup Language

JS: JavaScript

PHP: Hypertext Preprocessor

SQL: Structured Query Language

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Chapter 1 : Introduction

1.1 Introduction

Wistie, an innovative social networking platform, redefines friendship-building through its aspiration-based matching system. Designed to connect users through shared life goals and interests, Wistie employs advanced algorithms to analyze wishlists and hobbies, creating meaningful platonic connections. By incorporating age verification (16+) and administrator approval, the platform ensures authentic interactions while maintaining user safety.

Addressing the limitations of conventional social media, Wistie enhances interpersonal connectivity and user satisfaction. It enables users to discover like-minded individuals for shared experiences, fostering genuine relationships beyond superficial interests. For administrators, it provides robust moderation tools to maintain community standards. For members, it offers intuitive profile customization, real-time chat, and personalized match suggestions. Wistie represents a transformative approach to digital socialization, adapting friendship-finding to the modern era while prioritizing security and meaningful engagement..

1.2 Problem Statements

The problems addressed by existing Library Management System are:

- Many individuals have personal aspirations but lack friends to share those experiences with.
- Lack of personalized friend recommendation based on specific interests and wishlists
- Privacy concerns regarding sharing personal information with unverified users
- Lack of a platform for student Many platforms focus on dating or romantic connections rather than friendships.

These shortcomings hinder meaningful friendship formation and user safety in digital spaces. Acknowledging these challenges is critical for enhancing the engagement of users and meaningful platonic connections

1.3 Objectives

The main objectives of this major project are:

- To help users find like-minded friends who share similar personal aspirations and goals by connecting them through shared wishlists
- To implement intelligent algorithm that suggests potential friends based on interests and personal aspirations .
- To ensure secure and reliable user registration by verifying correct age, name, and profile picture.
- To create a platform that focuses on friendship rather than romantic connections, offering a dedicated space for people to form meaningful non-romantic relationships

1.4 Scope and Limitation

The main scope and deliverables of the project would be to:

- Instant matching based on analyzed wishlists and interest compatibility
- Development of a secure web platform with admin moderation capabilitiesnts.
- Implentation of a fully functional real-time chat system between matched users.
- Creation of profile verification systems including age validation (16+) and photo authentication.

The limitation of the system are:

- Currently limited to web-based access (no native mobile application).
- No video call functionality integrated for virtual meetup.
- Lacks geolocation features for proximity-based friend suggestions.
- Profile customization options are currently basic without advanced styling tools.

1.5 Report Organization

The report is structured into five chapters, aligning with the sections outlined in the Table of Contents. Each chapter is carefully organized with headings and sub-headings to cover essential aspects of the Software Development Life Cycle.

Chapter 1 provides an overview of the project, outlining its objectives and scopes. It sets the foundation for the entire document by introducing the problem statements and the goals the project aims to achieve.

Chapter 2 delves into the background study, offering context for the project, and conducts a comprehensive literature review. This section critically analyzes existing research and studies related to the project's subject matter.

Chapter 3 encompasses a detailed analysis and design of the system. It begins with the requirements analysis, outlining the project's necessities. The chapter further explores feasibility analysis, presenting insights into the project's viability. Detailed data modeling through Entity-Relationship (ER) diagrams and Data Flow Diagrams (DFD) is discussed, providing a clear understanding of the system's architecture.

Chapter 4 covers the implementation phase of the project, detailing the tools used and providing a comprehensive overview of module implementations. It also includes thorough testing methodologies, discussing both unit testing and system testing.

Chapter 5 reflects on the lessons learned throughout the project and draws conclusions based on the findings. It also provides insightful recommendations for future enhancements and developments related to the system.

The report concludes with a comprehensive list of references, acknowledging all the sources and research materials used during the project.

Additional supplementary materials, if any, are included in the appendices section.

Chapter 2 : Background Study and Literature Review

2.1 Background Study

The evolution from proximity-based friendships to algorithm-driven social platforms marks a paradigm shift in human connection methodologies. This transformation originated with early online forums in the 1990s, evolving into modern platforms that leverage machine learning for personalized matching [1]. Contemporary systems now analyze multidimensional user data – from demographic profiles to behavioral patterns – enabling more nuanced social interactions [2]. The proliferation of smartphone technology and cloud computing has further expanded these platforms' capabilities, allowing real-time global connectivity and sophisticated relationship analytics.

Wistie stands at the intersection of this evolution from casual social networking to goal-oriented friendship building. The background study examines the adoption of matching algorithms, the principles of secure user verification, and the intricacies of relationship analytics. By analyzing successful implementations in social platforms, essential attributes for Wistie have been identified. The project goes beyond basic profile matching and chat functionalities. It introduces an integrated environment that streamlines connection-building through wishlist analysis, facilitates secure user interactions through age verification, and fosters genuine engagement through admin-moderated communities.

2.2 Literature Review

A comprehensive review of the literature reveals increasing focus on authenticity and meaningful connections in social networking platforms. Studies emphasize the importance of intention-based matching systems that cater to users' specific relationship goals, including friendship-building and shared experiences [3]. Research highlights how advanced profiling techniques, incorporating both declared interests and behavioral patterns, significantly improve match relevance compared to basic demographic filters. The literature underscores the role of verification systems in platform safety, with studies demonstrating how age confirming and photo validation reduce fraudulent profiles by somewhat of the percentage in the social media crime rankings and that normally tends

upto 62%.

Moreover, the literature emphasizes the importance of technological considerations in the development of social platforms. Studies have explored the use of web-based technologies such as PHP, JavaScript, and MySQL, which have proven effective in creating dynamic and interactive systems. The integration of advanced matching algorithms and robust verification systems has also been identified as valuable features for enhancing user satisfaction and security [3].

Studies by Thompson et al. (2021) and Lee and Chen (2022) highlighted that many current social platforms fail to address the specific needs of friendship-seekers, often due to superficial matching criteria and inadequate safety measures [4]. These findings resonated with my observations of existing systems, where users frequently expressed frustration over irrelevant suggestions and unverified profiles. The literature underscores the role of detailed profiling in enhancing connection quality, with many researchers advocating for multi-dimensional compatibility analysis. Consequently, I aimed to prioritize the development of a secure and intention-focused platform for Wistie, incorporating advanced verification and matching systems.

Another significant Another significant area of concern was the lack of goal-alignment features in social platforms. The benefits of integrating wishlist analysis and interest-based grouping to foster more relevant connections [5]. Reflecting on my experiences with conventional networking systems, which often prioritized quantity over quality of connections, I recognized the need for Wistie to facilitate better-matched friendships through comprehensive profiling. This insight led me to incorporate a detailed wishlist system and admin moderation within Wistie, aiming to create a more authentic and focused user community.

While this system addresses several existing gaps, acknowledging its limitations is crucial. Future integration with mobile platforms could enhance accessibility for users across devices. Implementing video calling features would enable more personal interactions between matched users. And also, incorporating advanced geolocation services would help users connect with nearby matches, transforming Wistie into a more comprehensive, user-centric platform addressing the evolving needs of modern friendship-seekers.

Thus, the literature review process for the Wistie project was a revelatory experience, highlighting the shortcomings of existing social platforms and offering core insights into the features and functionalities that could enhance user satisfaction and connection quality. Armed with this knowledge, I set out to address these gaps through the development of Wistie, aspiring to create a more authentic, responsive, and adaptable social networking system. My research not only informed the technical design of Wistie but also instilled a deep appreciation for the potential of technology to facilitate genuine human connections in our increasingly digital age..

Chapter 3 : System Analysis and Design

3.1 System Analysis

The system analysis phase of the Wistie project involves understanding the theoretical background and analyzing the problem at hand. The development process begins with planning and scheduling to ensure timely completion. Various structured analysis tools, such as data flow diagrams, Gantt charts, and process specifications, are utilized during this phase.

Wistie aspires to be a highly authentic and user-centric platform, revolutionizing friendship-building through its innovative matching system and unique features. With a focus on fostering genuine connections, Wistie implements advanced compatibility analysis, intuitive user interfaces, and secure communication pathways. Rigorous verification procedures are integral to the platform's design, ensuring the reliability and safety of all user interactions. Profile validation encompasses multiple verification stages, from age confirmation to photo authentication, with any flagged profiles promptly reviewed to maintain Wistie's commitment to creating a trustworthy community environment.

Depending on the nature of this project, Iterative Waterfall model is chosen and the entire process of software requirement analysis, design, coding, testing and maintenance is performed accordingly.

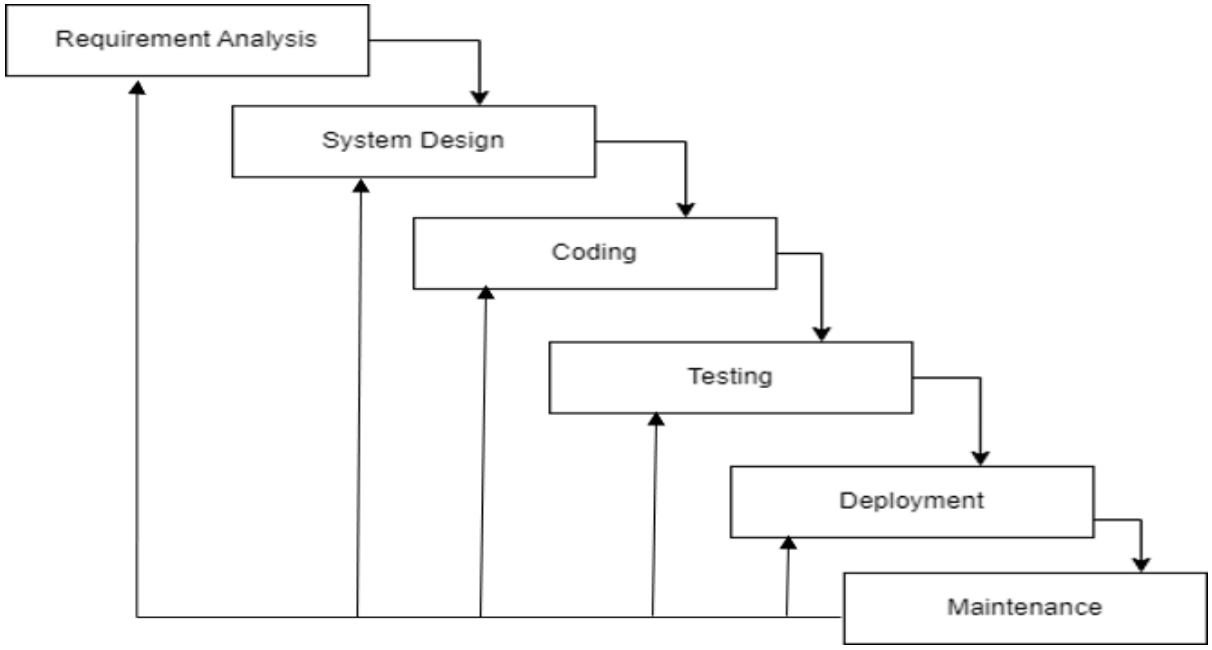

Figure 3-1: Iterative Waterfall Model approach for Wistie.

3.1.1 Requirement Analysis

Wistie is structured around a client-server architecture, necessitating a server to host both the application and its underlying database. This setup ensures that users can access and interact with the platform via web-based interfaces from their devices, facilitating comprehensive friendship-building activities.

i) Functional Requirements:

The functional criteria for Wistie have been meticulously defined to address core social networking needs while enhancing user experience for both members and administrators. These requirements include :

- **User registration:** Users must register their personal information to create an account. This generates login credentials, enabling access to Wistie's services.
- **User login:** Once valid credentials (username/email and password), users can access their accounts and platform features.
- **Profile Management:** Users can create, edit, and update their profiles including photos, personal details, and aspiration lists.
- **Matching System:** The platform automatically suggests potential friends based on analyzed compatibility of interests and wishlists..
- **Messaging:** Verified matches can communicate through a real-time chat system with message history.
- **Administrative System:** Moderators/an admin can review, approve, or reject user profiles and see the user details.
- **Viewing other profiles:** Users can see other registered accounts to swipe left and right.

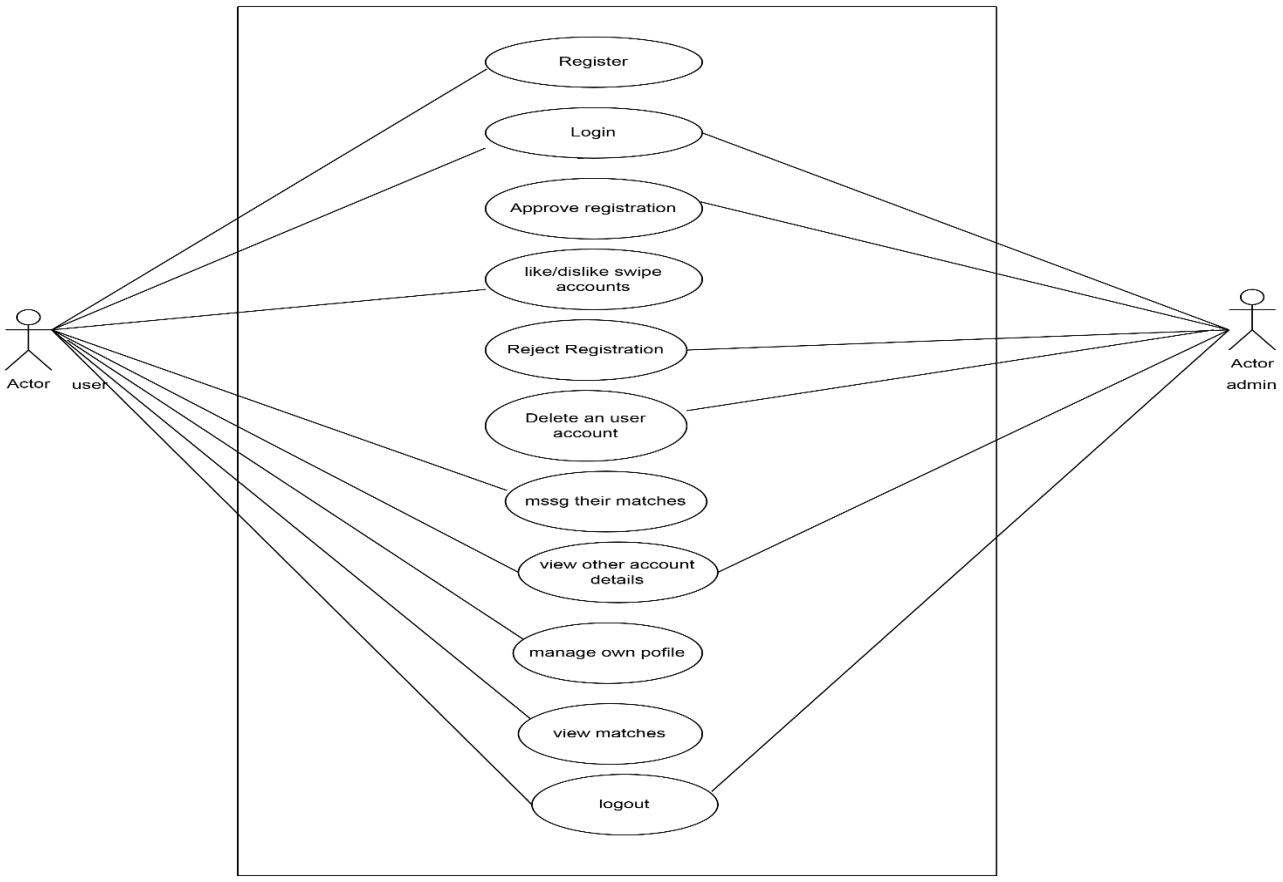

Figure 3-2: Use-case Diagram for Wistie

ii) Non-Functional Requirements:

The non-functional requirements for Wistie focus on the qualitative aspects of the system that contribute to an optimal user experience and operational excellence, some of them are:

- **Reliable:** Wistie is designed to be highly reliable, with built-in error handling and recovery mechanisms to manage and mitigate any technical issues that may arise during matching or communication.
- **Usability:** The system features an intuitive interface with clear navigation pathways, making it accessible for users of all technical skill levels to build meaningful connections.
- **Performance :** Whether matching profiles or facilitating conversations , users can expect responsive interactions with minimal latency across all platform features.
- **Accessibility and Availability:** The platform maintains consistent uptime across all supported devices and browsers, ensuring uninterrupted access to connection-building tools.

3.1.2 Feasibility Analysis:

i) Technical Feasibility

- Wistie is designed as a lightweight web application that operates efficiently without requiring specialized hardware upgrades for users or administrators.
- The platform is accessible through standard web browsers across various devices, including desktops, laptops and smartphones. This ensures that Wistie can be used without the need for specialized software installations.
- User-friendly interface simplifies management, eliminating complex technical demands.

ii) Operational Feasibility

- Wistie employs familiar social platform UI patterns that enable immediate user familiarity, reducing the need for extensive training or onboarding procedures.
- .Smart input validation and guided user flows prevent common errors while maintaining an engaging user experience that encourages regular platform interaction.
- The intuitive nature of the interface, coupled with intelligent input validation and guided workflows, minimizes the chances of user error, thereby increasing efficiency and user satisfaction.

iii) Economic Feasibility

- The system integrates easily with existing client hardware setups, eliminating the need for costly upgrades or additional equipment investments.
- The platform's unique value proposition in the friendship networking niche offers strong potential for sustainable growth and monetization..

iv) Schedule Feasibility

- Detailed planning provided a clear path, aiding efficient time management.
- Modular architecture allowed parallel development of key components (matching engine, chat system, admin tools) while maintaining integration flexibility.
- Following iterative waterfall approach, Wistie progressed through clearly defined phases, while remaining adaptable to feedback and refinements, keeping development on track.

Weeks / Activity	1	2	3	4	5	6	7	8	9	10	11	12
System Study												
Requirement Analysis												
System Design												
Coding (Implementation)												
Testing												
Documentation												

Figure 3-3: Gantt Chart for Wistie.

3.1.3 Data Modelling (ER-Diagram)

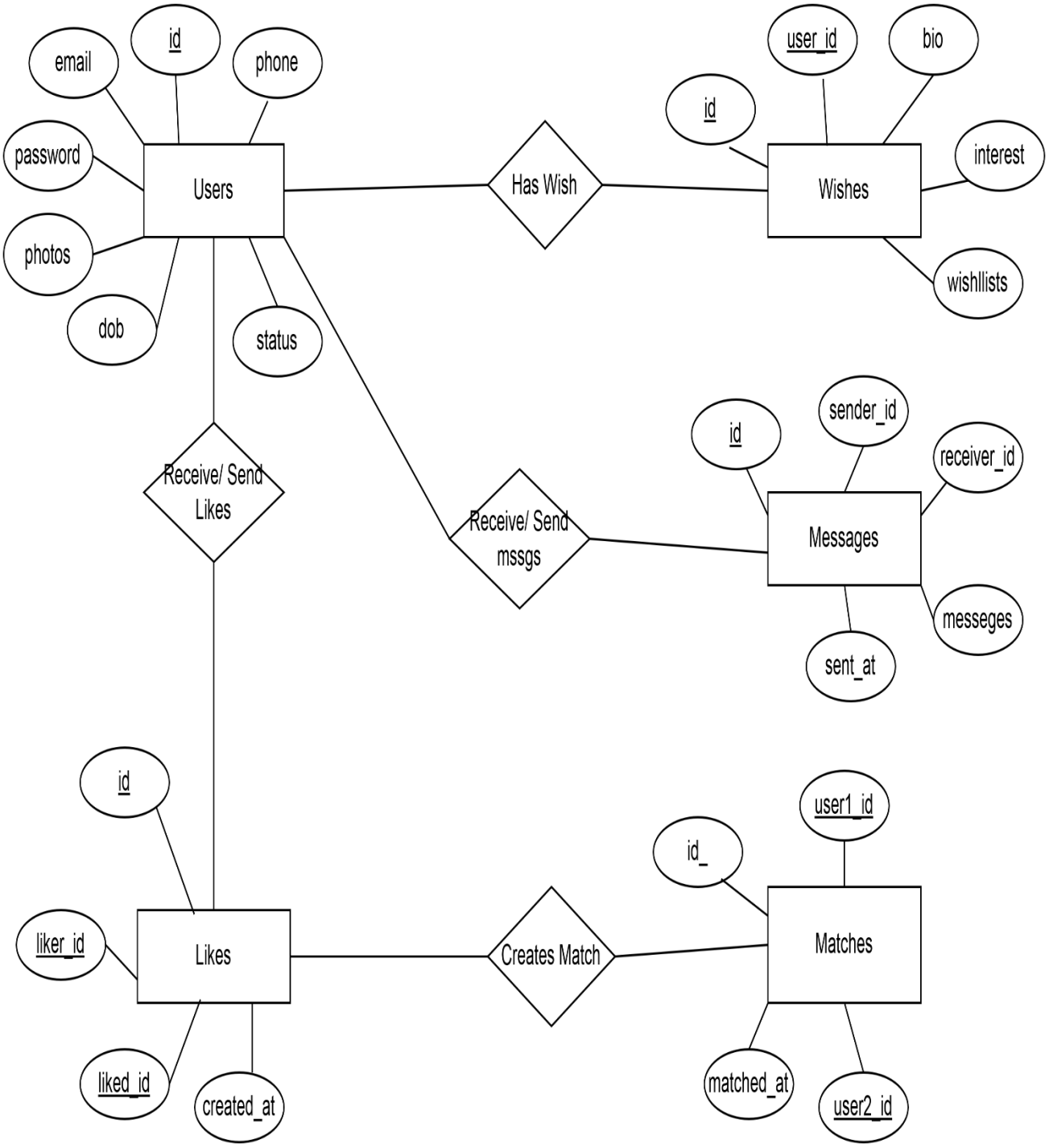

Figure 3-4: ER-Diagram of Wistie.

3.1.4 Data Flow diagram (DFD)

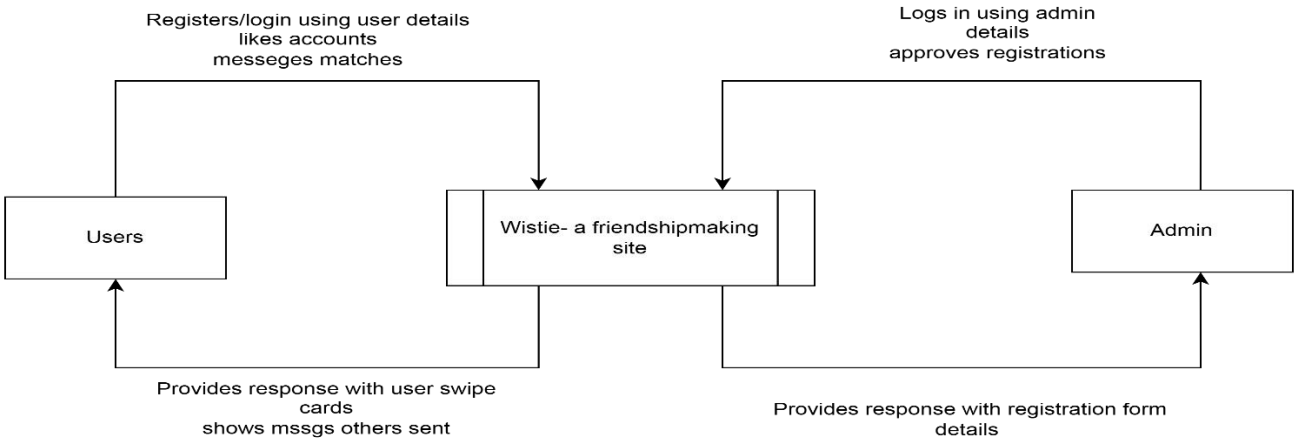

Figure 3-5: Level 0 DFD for Wistie

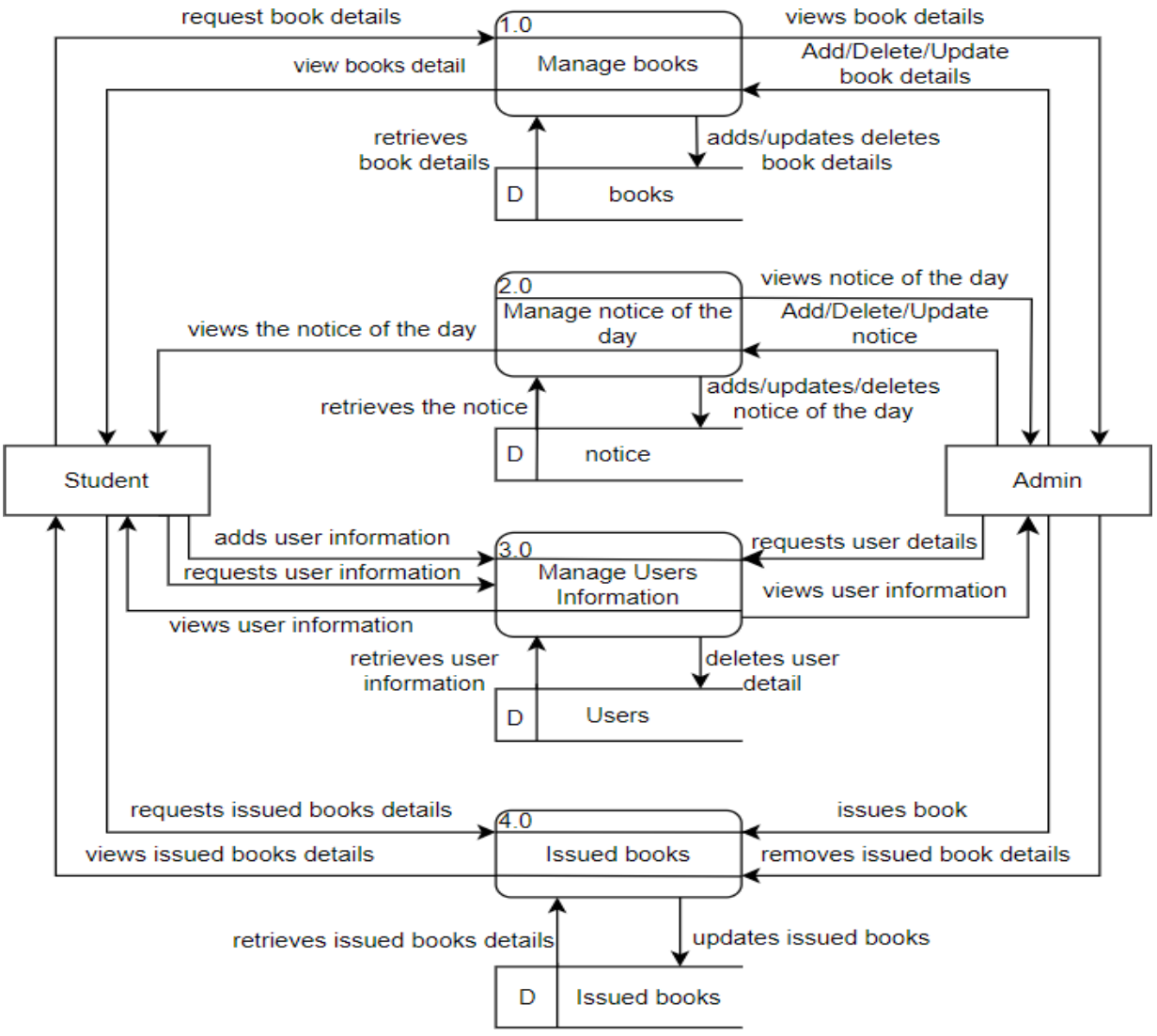

Figure 3-6: Level 1 DFD of LibraLink.

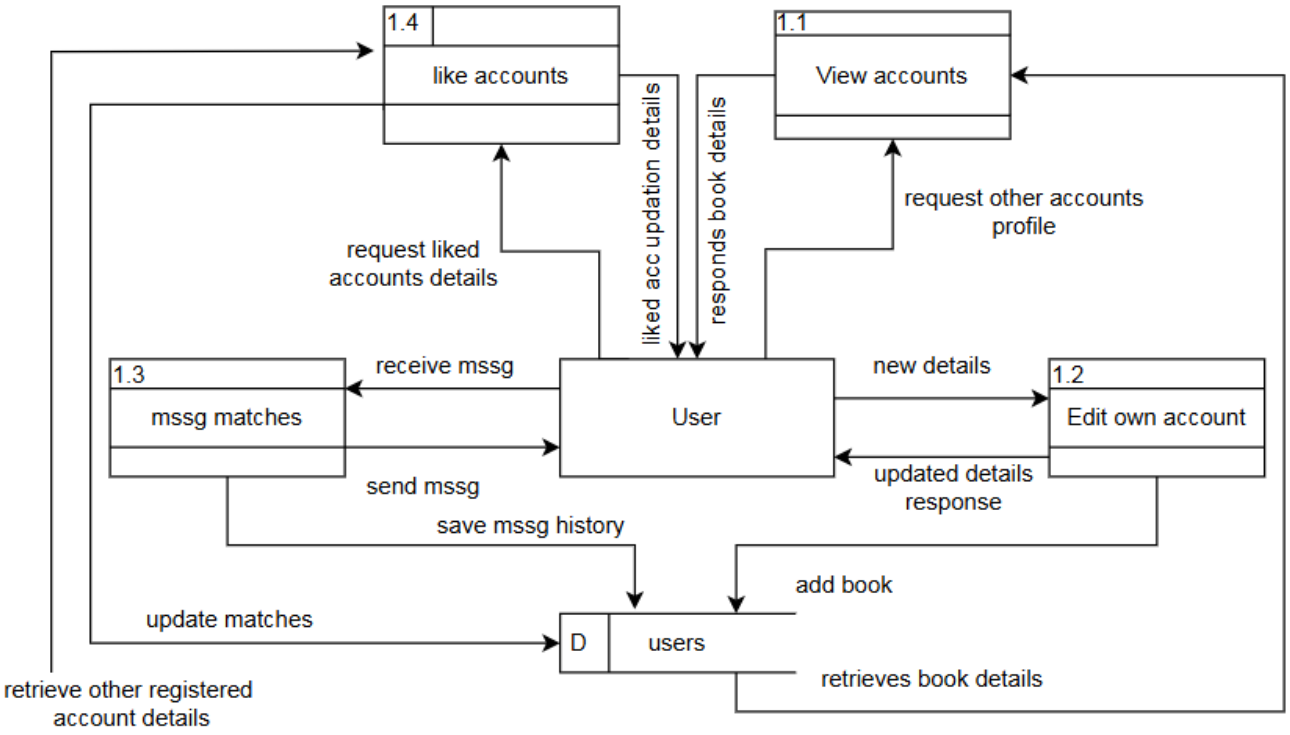

Figure 3-7: Level 2 DFD of Wistie.

3.2 System Design

In this section, we outline the overall architecture of Wistie, highlighting its dual-interface design that serves both administrators and regular users. This structure provides comprehensive management tools for moderators while delivering an engaging and intuitive experience for members seeking meaningful connections.

Admin Side

Dashboard: Two dedicated interfaces - a secure login portal and a main dashboard displaying user statistics, pending verifications, and reported content management.

User Management: Admins can review, verify, or suspend user profiles, with tools to examine reported accounts and resolve disputes.

.

User Side

Registration/login: From here the user can fill up the basic information to register to the site and login upon proper registration which enables them to gain access to Wistie's offerings.

Feed Section: Interactive interface for browsing potential matches using filters like interests, age range, and wishlist compatibility

Profile Management: Personal dashboard or view account to edit profile details, update photos, modify wishlists.

Connection Hub: A Centralized space for viewing current matches, accessing chat histories, and managing active conversations.

3.2.1 Architectural Design

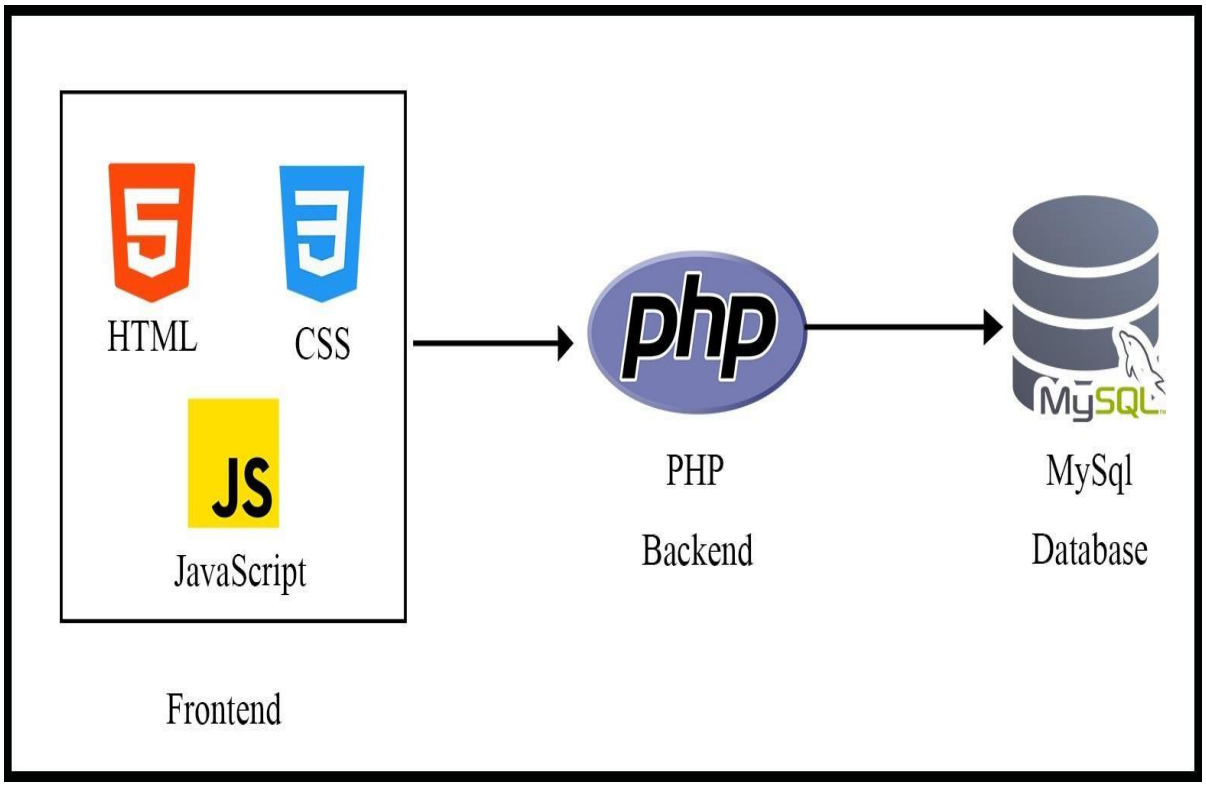

Figure 3-8: Architectural design of Wistie.

Wistie adopts a client-server architecture to deliver a robust and responsive social networking platform. This architectural approach maintains a clear separation between frontend user interfaces and backend data processing, optimizing for both performance and scalability. On the client side HTML, CSS and JavaScript construct the interactive user interface, facilitating profile browsing, real-time chat, and wishlist management. Apache serves as the web server, efficiently handling HTTP requests and user sessions. PHP scripts on the server-side process requests, interact with the MySQL database using SQL queries, and generate dynamic content. JavaScript communicates asynchronously with PHP through AJAX, updating the user interface in real-time based on server responses. This architecture ensures efficient data flow, enabling seamless functionality and user interaction.

3.2.2 Database Schema Design

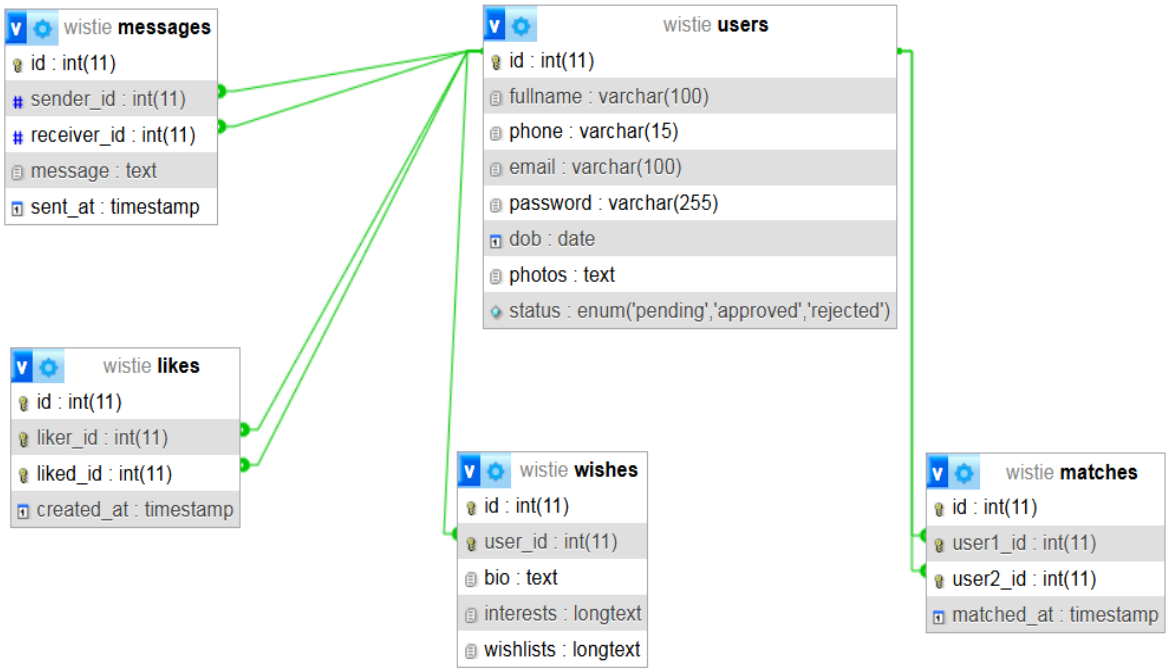

Figure 3-9: Database Schema Design of Wistie.

3.2.3 Interface Design

Wistie's interface, the homepage presents a clean, inviting layout with the platform logo and tagline prominently displayed.

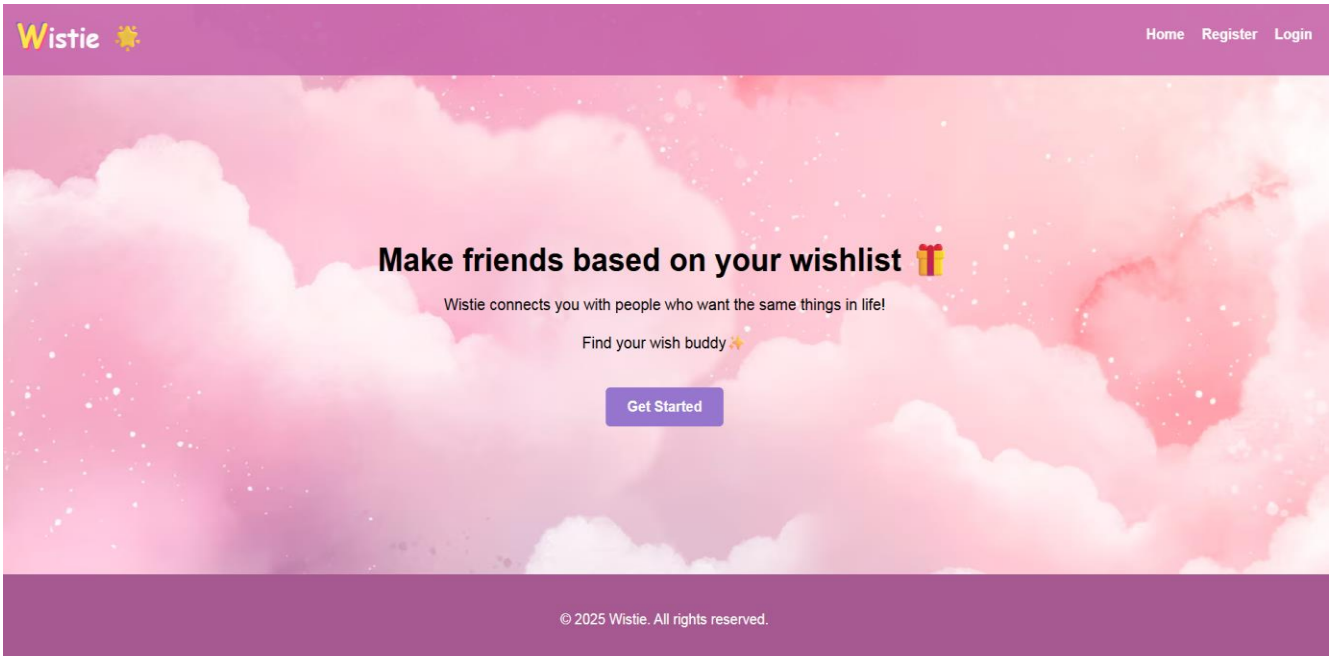

Figure 3-10: Home page design

Additionally, a prominent registration option is exclusively available for susers, guiding first-time users to a registration form. This form is a multiple form submission that solicits essential information such as full name, email, password, date of birth , phone number and insertion of atleast any two pictures of the user facilitating a smooth onboarding process. Following authentication, users wait for a brief moment until an admin checks out their registration form and verifies his account with an approved message/status.Now the users can login to their account- edit their account, chat with other account , match and swipe on their interest accounts.

Likely, the administrator's dashboard is equipped with status checking tools for successful registration and logging in operations, including approving, rejecting, and deleting any sus registered account or during the process of registration. Despite the differing functionalities, both pages maintain a user-friendly interface with seamless navigation, ensuring all users whether users or administrators, can efficiently utilize the system's features and resources.

3.2.4 Physical DFD

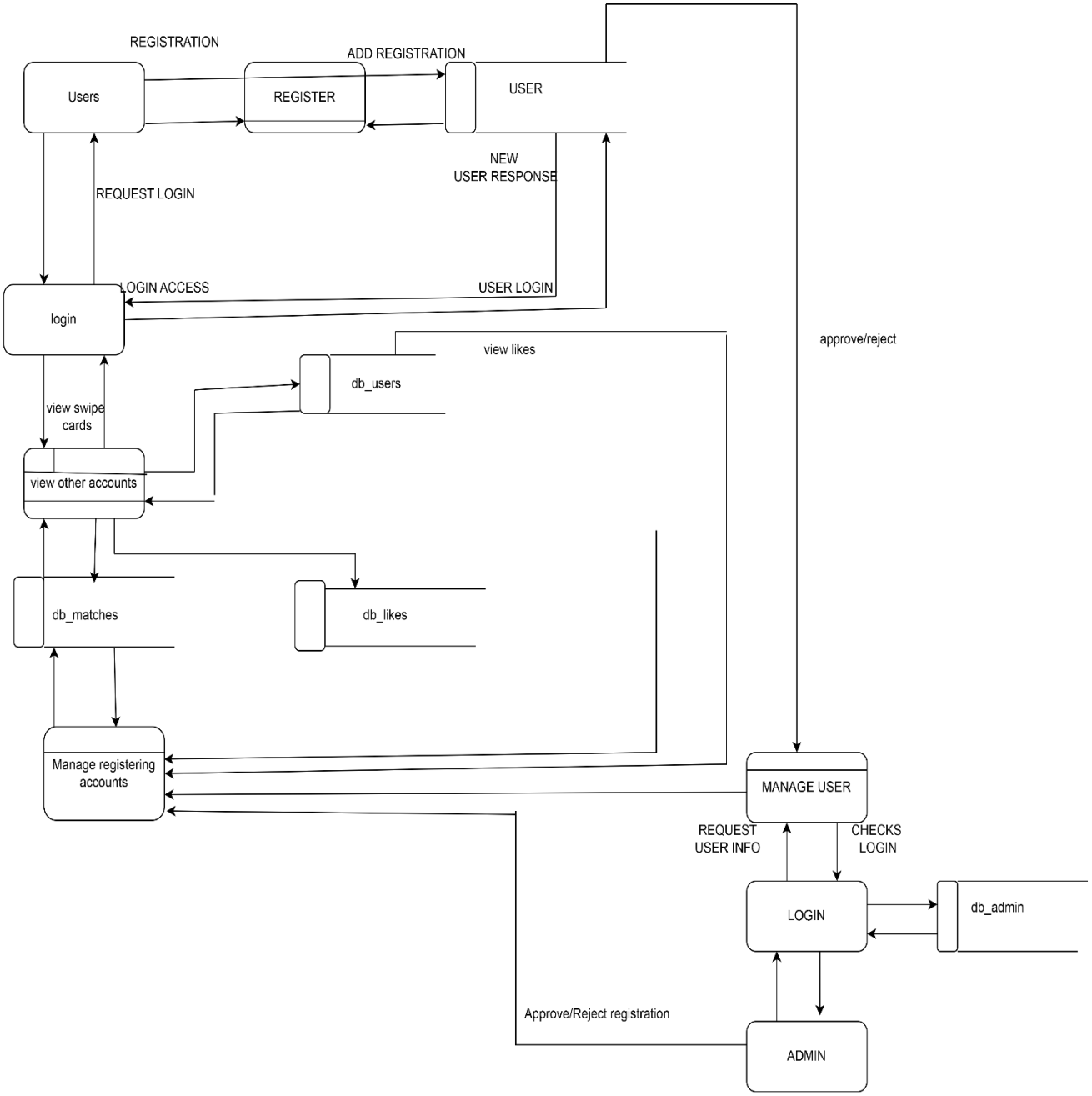

Figure 3-11: Physical DFD

Chapter 4 : Implementation and Testing

4.1 Implementation

The implementation phase represents the crucial transformation of Wistie's theoretical frameworks into a fully functional social networking platform. This chapter documents the developmental execution, spotlighting the technical stack and methodologies that actualized Wistie's innovative friendship-matching vision.

This chapter details the development process, focusing on the tools, programming languages, and technologies that bring Wistie to life. Following the system analysis and design outlined previously, this phase concentrates on building a platform that enhances social connectivity through sophisticated modules for profile matching, user verification, and communication management.

4.1.1 Tools Used

In adhering to the principles of the Iterative Waterfall Model, the implementation of Wistie was systematically approached, integrating feedback and insights from each iteration into the subsequent development cycle. The tools and technologies selected were based on their ability to fulfill the system's requirements effectively and efficiently:

Languages used:

- For Frontend - HTML, CSS, JS,AJAX
- For Backend – PHP, MySQL

Diagram tools used: Visual paradigm, Diagrams.net, Visual Studio Code

So, forward looking of database table, i create DFD and ER diagram in Visual paradigm and diagram.net. The actual implementation has been done by using PHP, JS, HTML and CSS. PHP has been used to interact with the backend database which is MySQL in this case. In this implementation, the user input given by user and translates them in the commands understandable to the backend database. Being a web-based system, PHP also manages the output the backend database produces, which is subsequently shown on the browser screen.

4.1.2 Implementation Details of Modules

The modules created for the Wistie store are listed below:

4.1.2.1 Admin Module

This module empowers administrators with tools to manage the registered or registering user accounts, and system settings through a web-based admin panel. It supports tasks such as approving thee registration, rejecting the registration and deleting the already created account of a user.

4.1.2.2 User Module

Users engage with Wistie through an intuitive web interface designed for meaningful social interactions. The module facilitates profile creation, wishlist management, match discovery, and real-time messaging. Personalized dashboards display compatibility metrics, conversation history, and activity suggestions, all accessible through streamlined navigation optimized for connection-building.

4.2 Testing

The testing phase validates Wistie's operational reliability, user experience quality, and compliance with all functional specifications. Rigorous evaluation protocols identify and resolve potential issues prior to deployment, encompassing both technical performance and social interaction safety measures.

4.2.1 Unit Testing

Unit testing verifies Wistie's foundational code integrity by isolating and evaluating individual components. Each modular function - from profile matching algorithms to message encryption methods - undergoes automated validation through continuous integration pipelines. This granular approach ensures all discrete operations meet precision standards before system integration.

4.2.2 System Testing

Moving beyond individual components, system testing evaluates the fully integrated Wistie application. A Functional Requirement Specification (FRS) is used to guide system testing.

Table 4-1: User Login Test

Test case id	Test scenario	Test steps	Test data	Expected result	Actual result	Pass/ fail
1	Check user Login with valid data	1. Go to site: - http://localhost/ Wistie/login.php 2. Enter email and password. 3. Submit.	Email: "Ram@gmail.com"Password: "ram123456"	User will be redirected to user homepage which is as expected.	As expected	Pass
2	Check user Login with invalid data	1. Go to site: - http://localhost/ Wistie/login.php Enter username and password 2. Submit.	Email: "mangila.adhikari111@gmail.com" Password: "man123"	User wouldn't be able to login.	As expected ,user was not able to login.	Fail

Table 4-2: Admin Login Test case

Test case id	Test scenario	Test steps	Test data	Expected result	Actual result	Pass/ fail
1	Check admin login with valid data	1. Go to site: - http://localhost/Wistie/login.php 2. Enter email and password. 3. Submit.	Email: "Mangila.adhikari111@gmail.com" Password: "Manjila1234"	Admin will be redirected to admin homepage which is as expected.	As expected,	Pass
2	Check admin Login with invalid data	1. Go to site: - http://localhost/library/login 2. Enter username and password 3. Submit.	Email: "Mangila.adhikari111@gmail.com" Password: "Manjila"	Admin would not be able to login.	Admin was not able to login.	Fail

Table 4-3: Admin Approving/Rejecting Test case

Test case id	Test scenario	Test steps	Test data	Expected result	Actual result	Pass/ fail
1	Approving the registration form of a user	1. Log in as an admin 2. Click in "approve" button in topmost left area.	Approving the account named Prakriti Adhikari.	The user now should be able to login their account now.	As expected	Pass
2	Rejecting the registration of an account.	1. Log in as an admin 2. Click in "reject" button in the left corner besides that users name/	Rejecting the registration of an account named Barsa.	The user now should not be able to login to their account and display a mssg sayin'invalid credentials'	As expected.	Fail

Chapter 5 : Conclusion and Future Recommendation

5.1 Lesson Learnt / Outcome

“Wistie” has successfully established an innovative social networking platform that enhances authentic connection-building and user safety. By implementing wishlist-based matching algorithms and rigorous verification systems, the project addresses critical gaps in modern digital friendship platforms. The development process highlighted the essential balance between algorithmic precision and human moderation in fostering meaningful online interactions.

The most valuable insight emerged from continuous user testing, which revealed unexpected patterns in how people articulate and prioritize life goals when seeking friendships. Early engagement with beta testers created a feedback loop that fundamentally shaped Wistie's matching criteria and interface design. This participatory approach ensured the platform resonates with genuine user needs rather than theoretical assumptions..

The project reaffirmed the necessity of multi-layered quality assurance in social platforms. Comprehensive testing protocols - spanning technical performance, security vulnerabilities, and interaction safety - were crucial in building a system that users trust with their personal aspirations and social connectivity. Wistie's implementation demonstrates how ethically-designed technology can facilitate authentic human relationships in digital spaces.

5.2 Conclusion

Wistie represents a transformative advancement in social networking, pioneering a shift from superficial connections to meaningful, aspiration-based friendships. This innovative platform redefines digital relationship-building through its unique integration of wishlist compatibility algorithms, rigorous age verification, and moderated interactions. The implementation of PHP, JavaScript, and MySQL technologies has enabled a secure and responsive environment that prioritizes authentic connections while maintaining robust user protections. Different algoithms and transaction based database has made very solid.

The development of Wistie has provided invaluable insights into the intersection of technology and human relationships. The project demonstrates how thoughtfully designed digital systems can facilitate genuine social bonds while addressing contemporary challenges of online safety and authenticity. Wistie establishes a new standard for friendship platforms by successfully balancing algorithmic matching with human oversight..

5.3 Future Recommendations

To further enhance Wistie's capabilities, several strategic improvements should be prioritized. The development of native mobile applications for iOS and Android would significantly improve accessibility and user engagement, particularly through location-based features and optimized push notifications. Integrating video calling functionality would enable more personal connections between matched users, while interest-based group forums could foster community building beyond one-to-one interactions. Advanced safety features such as AI-assisted content moderation and two-factor authentication would strengthen the platform's security framework. The implementation of monetization pathways through premium membership tiers and verified profile badges could support sustainable growth while maintaining core functionality. These enhancements would collectively elevate Wistie's position as a leading friendship platform, expanding its capabilities while preserving the focus on authentic, aspiration-based connections that define its unique value proposition.

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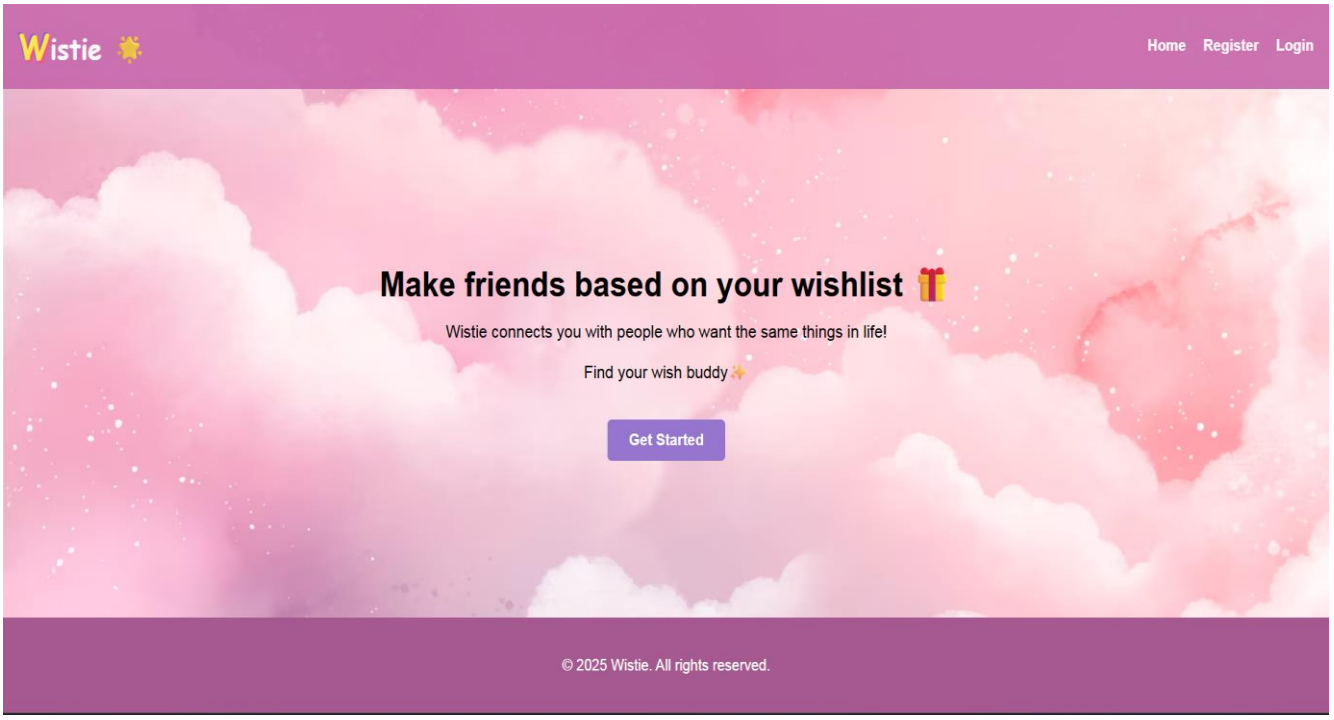
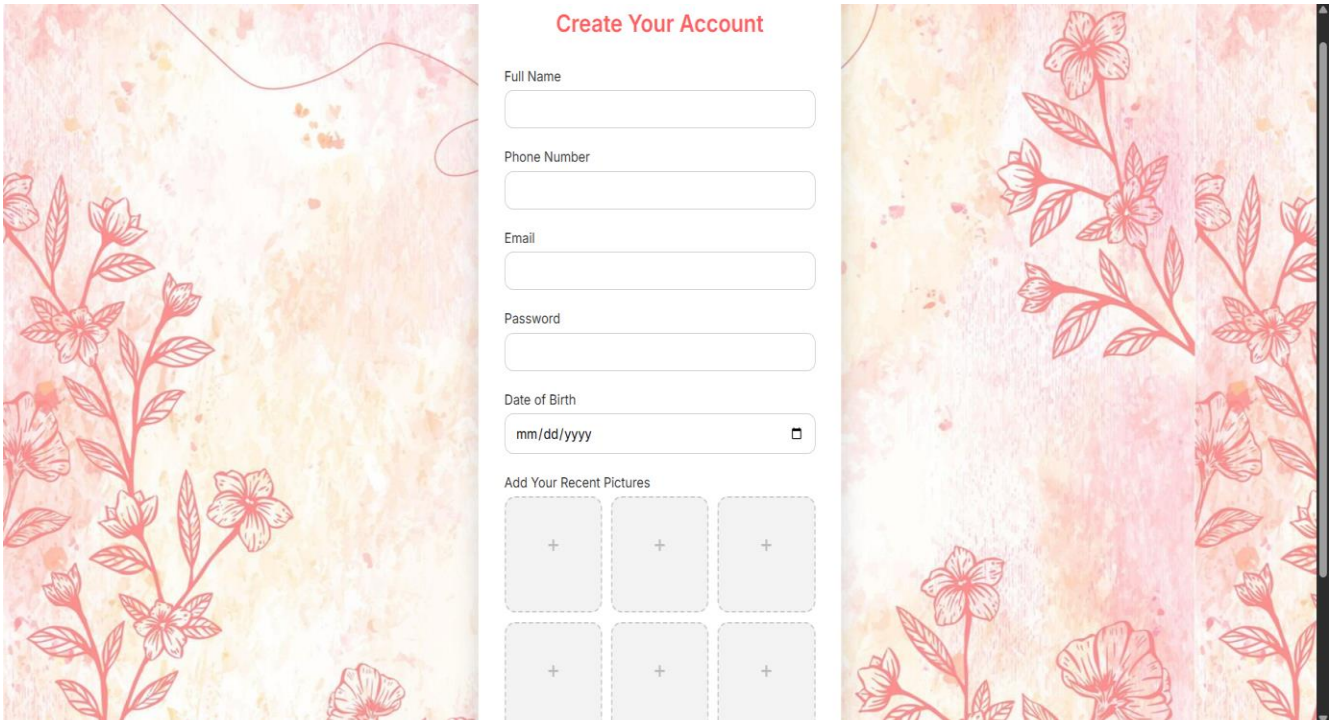
Appendices

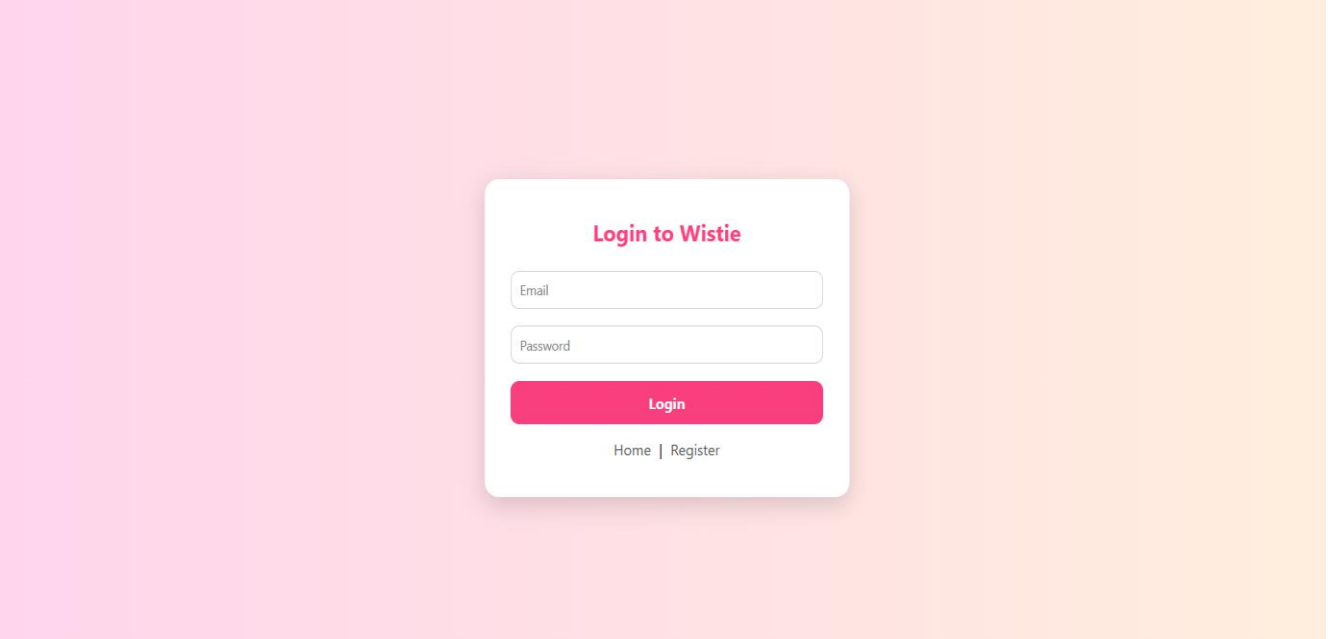
Appendix 1: Home Page



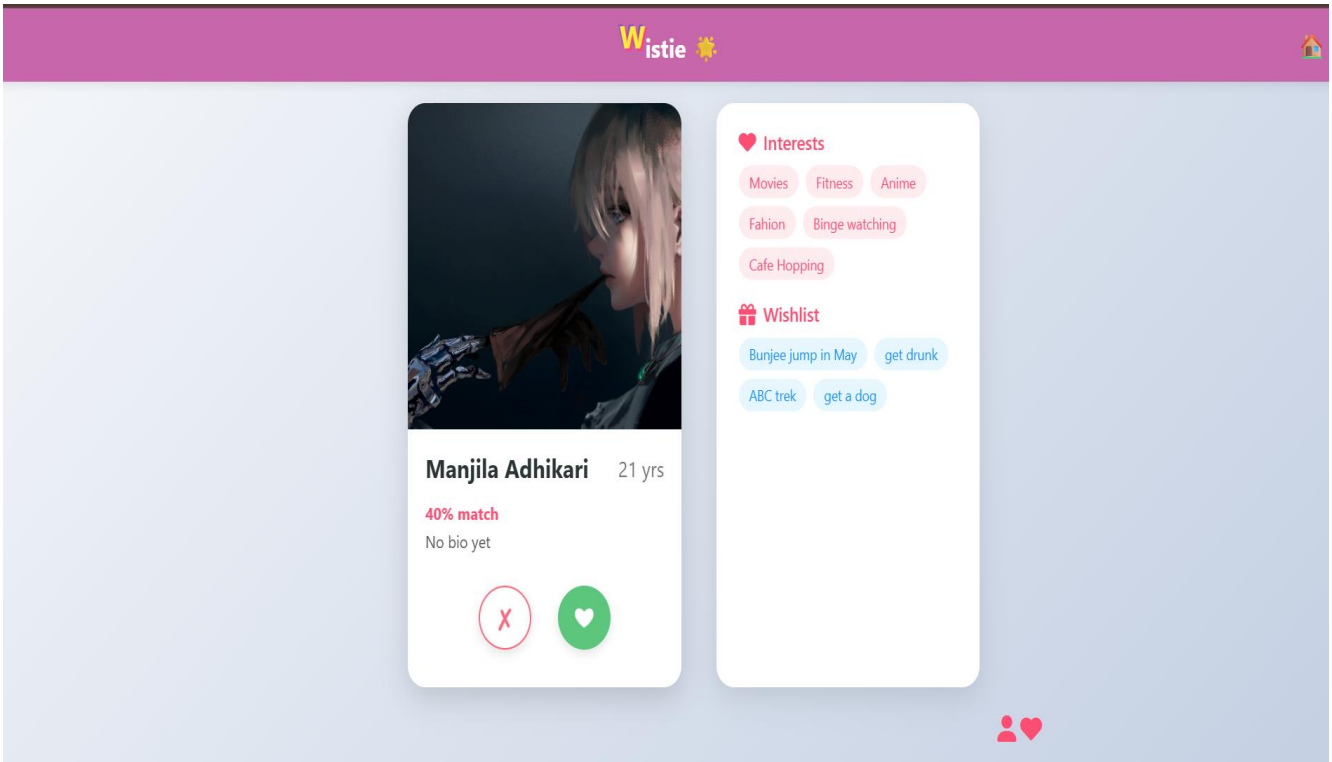
Appendix 2: Register Page



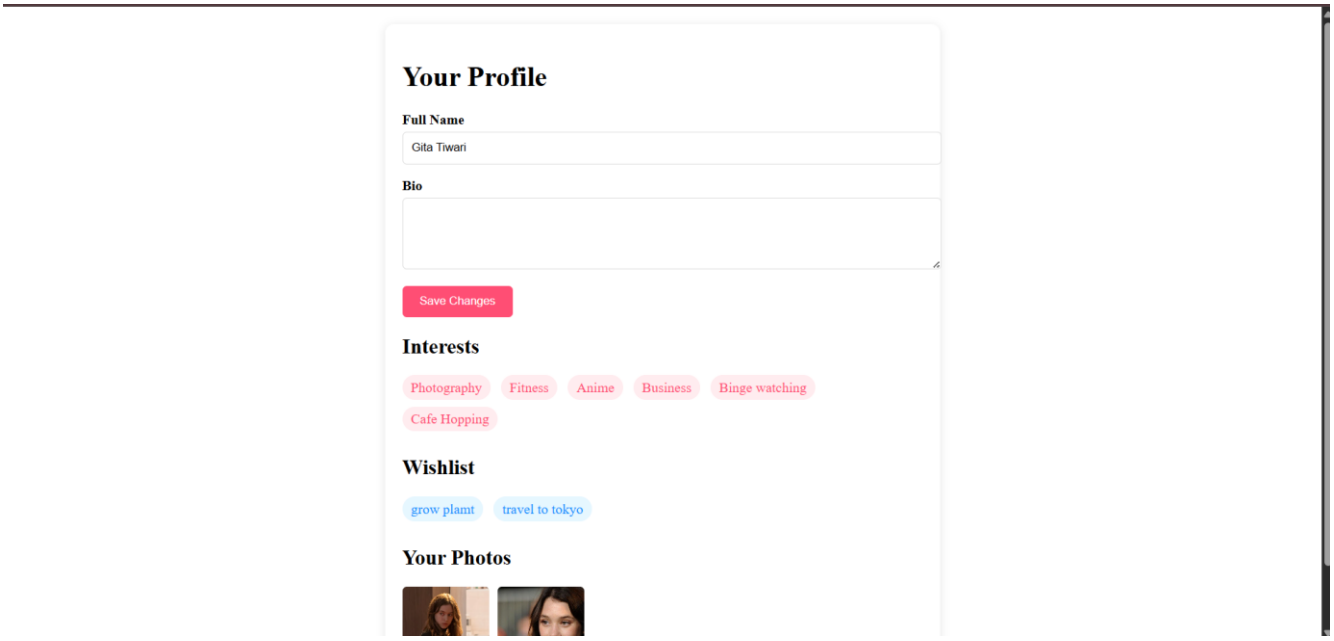
Appendix 3: User Login Page



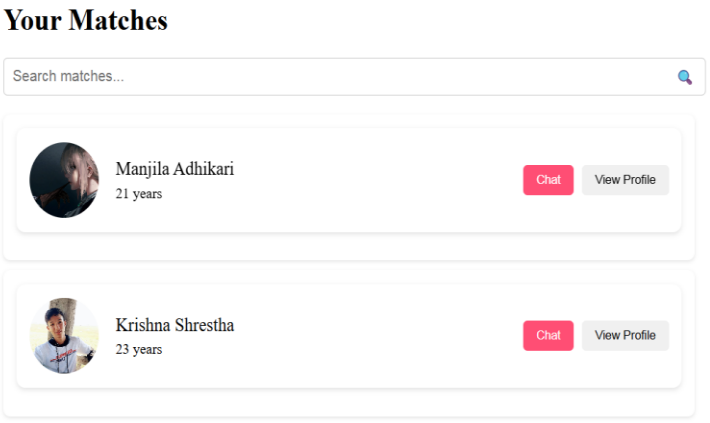
Appendix 4: Home Page



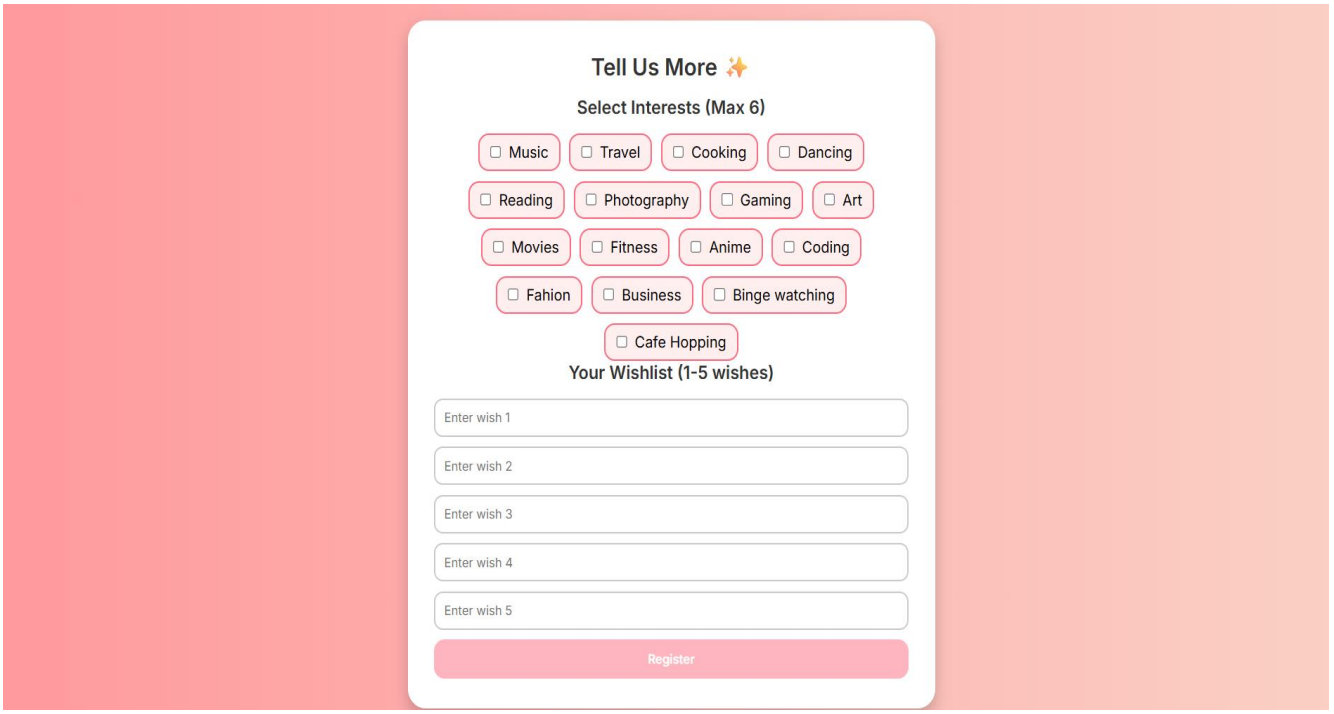
Appendix 5: Edit Profile Page



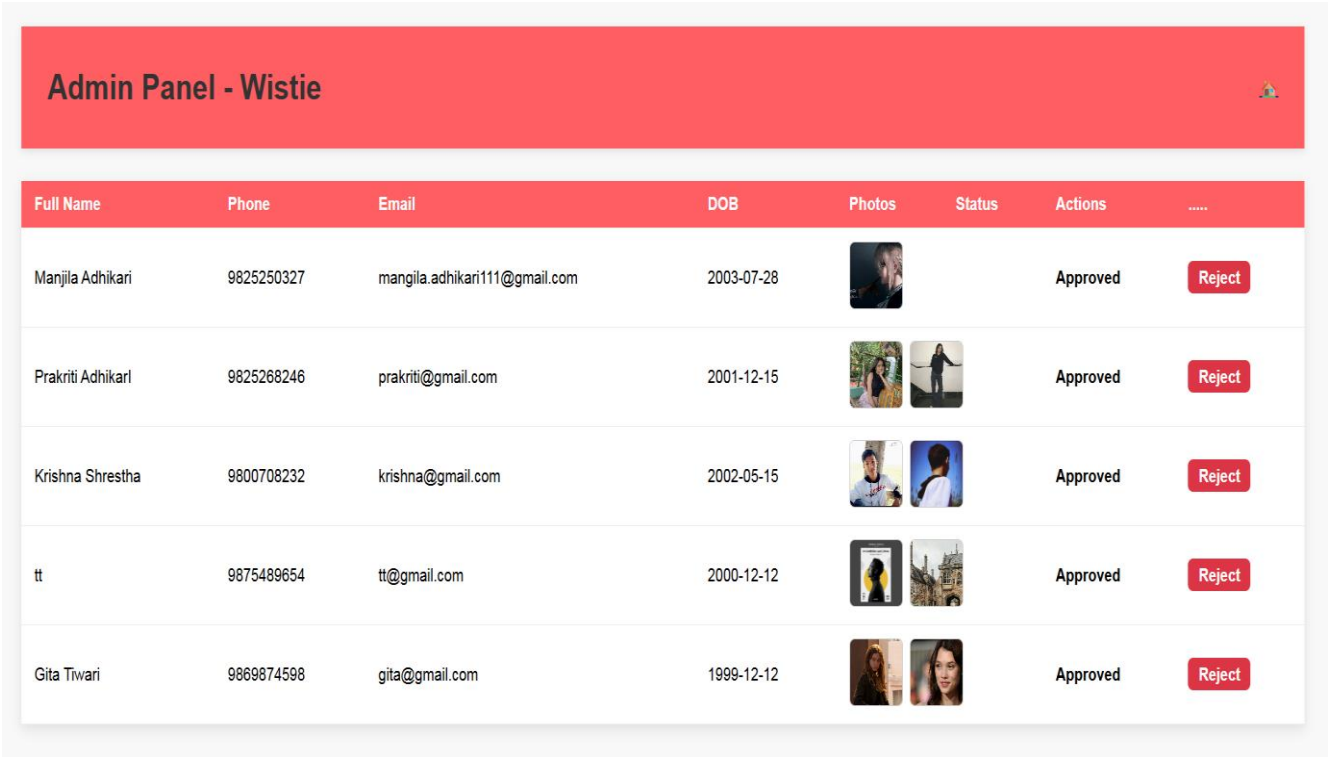
Appendix 6: Matches Page



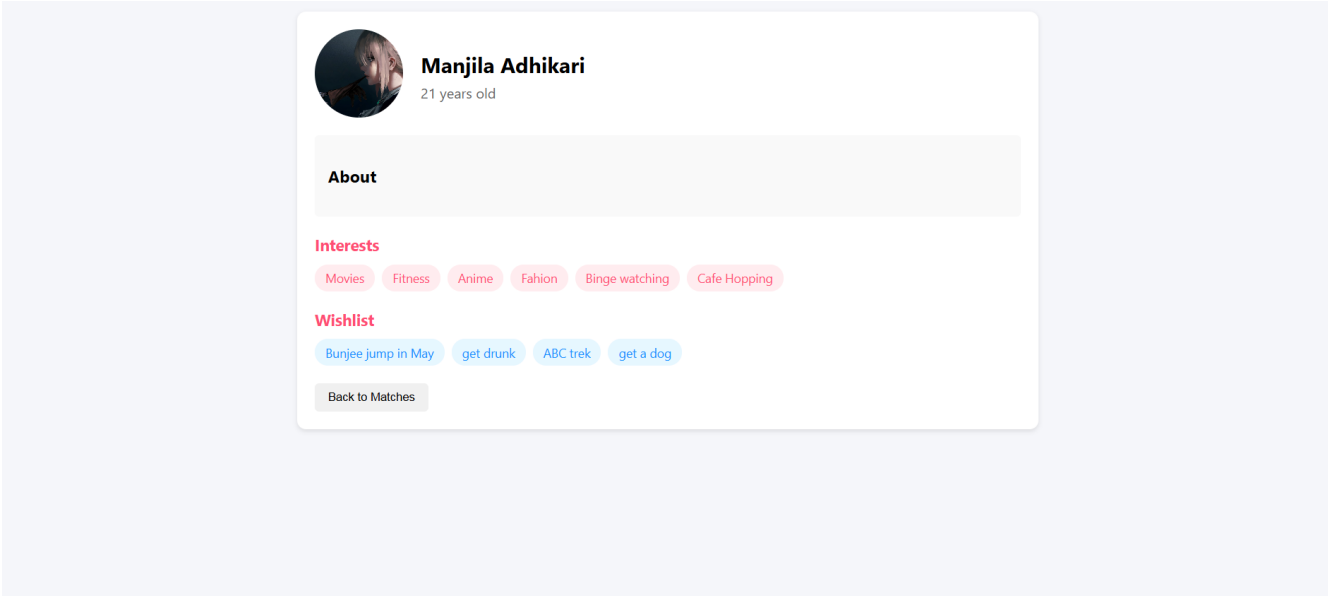
Appendix 7: Second Registration Page



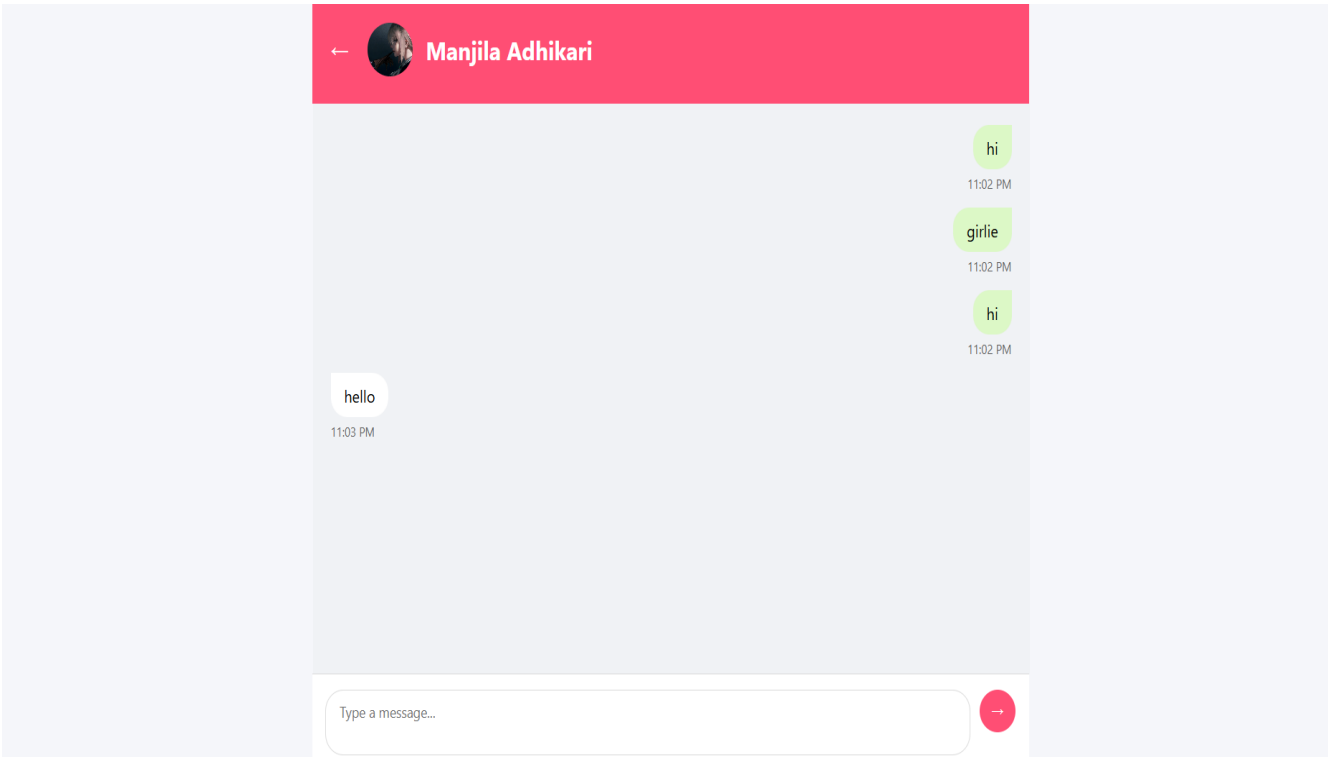
Appendix 8: Admin Home Page



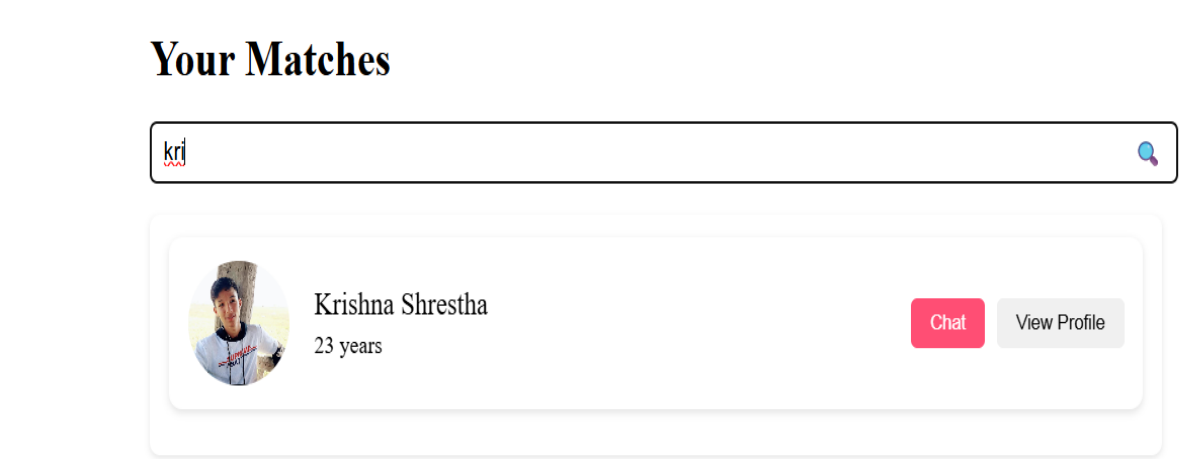
Appendix 9: Matches View Profile Page



Appendix 10: Messeges Page



Appendix 10: Search Functionality



Appendix 10: Match filtering algorithm

```php
// Get current user's interests and wishes for matching
$currentUserStmt = $conn->prepare("SELECT interests, wishlists FROM wishes WHERE user_id = ?");
$currentUserStmt->bind_param("i", $currentUserId);
$currentUserStmt->execute();
$currentUserData = $currentUserStmt->get_result()->fetch_assoc();

$currentUserInterests = json_decode($currentUserData['interests'] ?? '[]', true) ?: [];
$currentUserWishes = json_decode($currentUserData['wishlists'] ?? '[]', true) ?: [];

// Function to calculate compatibility score
function calculateMatchScore($currentUserInterests, $currentUserWishes, $otherUser) {
    $score = 0;

    // Get other user's interests and wishes
    $otherInterests = json_decode($otherUser['interests'] ?? '[]', true) ?: [];
    $otherWishes = json_decode($otherUser['wishlists'] ?? '[]', true) ?: [];

    // Calculate interest matches (weight: 10 points per match)
    $interestMatches = array_intersect($currentUserInterests, $otherInterests);
    $score += count($interestMatches) * 10;

    // Calculate wish matches (weight: 15 points per match)
    $wishMatches = array_intersect($currentUserWishes, $otherWishes);
    $score += count($wishMatches) * 15;

    // Ensure minimum score of 20 for any profile
    return max(20, $score);
}
```

Appendix 11: Search algorithm

```
    <script>
        document.getElementById('searchInput').addEventListener('input', function() {
            const searchTerm = this.value.toLowerCase();
            const matchItems = document.querySelectorAll('.match-item');

            matchItems.forEach(item => {
                const nameElement = item.querySelector('.match-name');
                const name = nameElement.textContent.toLowerCase();

                if (name.includes(searchTerm)) {
                    item.style.display = '';
                } else {
                    item.style.display = 'none';
                }
            });
        });
    </script>
</body>
</html>
```