

Book Shelf

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of  
Information Technology & Management

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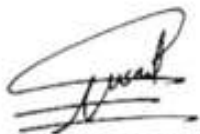


**DAFFODIL INTERNATIONAL  
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### Approval

This thesis title on “**Book Shelf**”, submitted by “**Md. Al Hasibur Rahman, 201-50-005**”, to the Department of Information Technology & Management, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology & Management, and approval as to its style and contents.

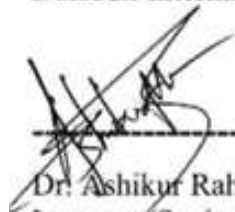
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## DECLARATION

It hereby declares that this project has been done by me under the supervision of **Nusrat Jahan, Assistant Professor and Head** of, the Department of Information Technology & Management, Daffodil International University. It also declares that neither this project nor any part of this has been submitted elsewhere for the award of any degree.

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## Abstract

The "Online Old Book Buy and Sell" platform serves as a virtual marketplace for book enthusiasts, collectors, and sellers interested in acquiring or trading vintage, rare, and out-of-print books. Through this digital platform, users can browse a diverse collection of literary treasures, from classic novels to historical manuscripts, and engage in transactions with fellow bibliophiles worldwide. The abstract encapsulates the essence of this online community that fosters the preservation, discovery, and exchange of timeless literary works, bridging the past with the present in a shared passion for books and their enduring value.

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## Chapter 01: Introduction

### **1.1 Project overview**

The "Online Old Book Buy and Sell" project aims to create a comprehensive and user-friendly digital platform that facilitates the buying, selling, and trading of old, vintage, and rare books. The platform serves as a virtual marketplace where book enthusiasts, collectors, and sellers can come together to explore, discover, and engage in transactions related to literary treasures from different eras.

### **1.2 Project Purpose**

The purpose of the "Online old book buy and sale" project is to create a user-friendly digital platform that promotes sustainable book consumption and fosters a community of book lovers. The project aims to facilitate the exchange of books among users, allowing them to declutter their bookshelves, discover new reads, and build connections with like-minded individuals. Additionally, the platform recognizes that book values may not always be equal, and thus, it incorporates the option for users to provide monetary compensation to balance book exchanges.

#### **1.2.1 Background**

The idea for the "Online old book buy and sale" stems from a growing interest in sustainable practices and a love for literature. In recent years, there has been a growing concern about environmental sustainability and the need to reduce waste in various industries, including the book publishing industry. Simultaneously, there exists a vibrant community of book lovers who cherish the value of books and wish to share their passion with others.

The project founders, avid readers themselves, noticed a common dilemma among book enthusiasts – the accumulation of surplus books that are no longer needed but still hold value. Traditional methods of disposing of books often involve donating to charities or selling to secondhand bookstores, but these options might not always guarantee a new home for each book or provide the desired reading material in return.

Inspired by the concept of book sharing and the idea of creating a sustainable approach to book consumption, the founders envisioned a digital platform that would enable individuals to exchange their surplus books with others who share similar interests. The primary goal was to extend the life cycle of books, reduce waste, and promote a sense of community and connection among book lovers.

#### **1.2.2 Benefit's & Beneficiaries**

- People in every remote area will benefit from this system
- General people and delivery men can easily create an account or register.
- It is easy to add profiles to this system.
- People can easily search for their service.
- People will find their rare books easily in this system.
- People can easily order their rare books & will get fast delivery.
- Admin can easily find their books seller through this system.

### Beneficiaries:

- Student.
- Library Owner.

### 1.2.3 Goal

Our platform will benefit people in towns and rural areas. We will start operations in five planned locations and expand based on consumer demand and market analysis, allowing us to grow throughout Bangladesh.

### 1.3 Stakeholder

- Customer
- Supplier
- Admin

## 1.4 Project Schedule

### 1.4.1 Gantt Chart



## 2.1 Functional and non-Functional Requirements:

### 2..1.1 Functional Requirement

#### User Registration and Authentication:

1. Users should be able to register for an account, providing essential details like name, email, and password.
2. Email verification or mobile phone verification should be implemented for account security.
3. Users should have the option to log in using their credentials securely.

**User Profiles:**

4. Each user should have a profile page where they can manage their personal information, contact details, and profile picture.
5. Users should be able to view and edit their active ads and account settings.

**Ad Posting and Management:**

6. Users should be able to create, edit, and delete their ads.
7. The ad posting process should allow users to provide detailed information about the product or service they are offering, including title, description, category, price, location, and images.
8. Ads should have a publication date and expiration date.
9. Users should receive notifications when their ads are about to expire.
10. Ads should be categorized for easy browsing.

**Search and Browsing:**

11. Users should be able to search for ads based on keywords, categories, location, price range, and other filters.
12. Search results should be presented in a clear and organized manner, with options for sorting.
13. Users should be able to save searches and set up alerts for new ads that match their criteria.

**Communication:**

14. Users should be able to contact sellers directly through the platform, using a secure messaging system.
15. Sellers should receive notifications of new messages and inquiries.

**User Ratings and Reviews:**

16. Implement a rating and review system where users can rate and provide feedback on their experiences with other users and their ads.

**Monetary Transactions:**

17. For ads that involve monetary transactions, users should have the option to pay securely through the platform.
18. Implement payment gateways to facilitate secure payments.
19. Users should receive confirmation of successful transactions.

**Ad Reporting and Moderation:**

20. Users should be able to report inappropriate or fraudulent ads.
21. Admins should have access to a moderation dashboard to review reported ads and take appropriate actions.

**Admin Panel:**

22. Admins should have the ability to manage user accounts, monitor ad postings, and handle disputes.
23. Implement tools for content moderation, including ad removal and user banning.

**Mobile Responsiveness:**

24. Ensure that the platform is responsive and user-friendly on various devices, including mobile phones and tablets.

**Feedback and Support:**

25. Provide a way for users to contact customer support for assistance or to report issues.
26. Implement a feedback mechanism for users to submit suggestions or complaints.

**Privacy and Security:**

27. Implement robust security measures to protect user data and transactions.
28. Ensure compliance with data privacy regulations.

These functional requirements form the foundation of a comprehensive online classifieds and marketplace platform like Bikroy.com. Depending on the specific needs and features of your platform, additional requirements may be necessary. It's essential to thoroughly define and document these requirements before proceeding with the development and implementation of such a system.

**2.1.2 Non-Functional Requirement:****Performance:**

1. Response Time: The platform should have fast response times to ensure a smooth user experience. Page load times, search results, and ad posting should be quick.
2. Scalability: The system should be designed to handle increasing user loads without a significant decrease in performance.
3. Concurrency: The platform should support a large number of concurrent users without degrading performance.
4. Availability: Aim for high availability with minimal downtime for maintenance or updates.

**Security:**

5. Data Privacy: User data, including personal information and transaction details, must be securely stored and protected from unauthorized access.
6. Authentication and Authorization: Implement strong user authentication and authorization mechanisms to prevent unauthorized access to user accounts and data.
7. Secure Payments: Ensure that payment transactions are conducted securely, adhering to industry standards for payment security.
8. Protection Against Cyber Threats: Implement security measures to protect against common cyber threats like SQL injection, cross-site scripting (XSS), and data breaches.
9. Data Encryption: Sensitive data should be encrypted during transmission and storage.

**Usability and User Experience:**

10. Intuitive User Interface: The user interface should be intuitive, easy to navigate, and responsive on various devices.
11. Accessibility: The platform should follow accessibility standards, making it usable by individuals with disabilities.
12. Multilingual Support: Support for multiple languages should be provided to cater to users from diverse linguistic backgrounds.
13. Consistency: Maintain a consistent design and user experience throughout the platform.

**Compatibility:**

14. Browser Compatibility: Ensure the platform is compatible with popular web browsers to provide a seamless experience for users.
15. Operating System Compatibility: The system should be compatible with major operating systems used by users.

**Scalability:**

16. Performance Under Load: The platform should perform well under heavy user loads, with the ability to scale horizontally or vertically as needed.
17. Database Scalability: Ensure that the database can scale to accommodate a growing number of ads and users.

**Documentation:**

18. User Guide: Provide comprehensive user documentation that explains how to use various features and functionalities.
19. Developer Documentation: For maintenance and future enhancements, the platform's codebase should be well-documented for developers.

**Compliance:**

20. Legal and Regulatory Compliance: Ensure the platform adheres to relevant legal and regulatory requirements, including data protection laws and copyright regulations.

**Testing:**

21. Testing Coverage: The platform should undergo thorough testing to identify and resolve bugs, ensuring high quality and reliability.
22. Security Testing: Conduct security testing, including penetration testing, to identify and fix potential vulnerabilities.

**Backup and Recovery:**

23. Data Backup: Implement regular data backups to prevent data loss in case of system failures.
24. Disaster Recovery: Develop a disaster recovery plan to ensure minimal downtime and data loss in the event of a catastrophic failure.

## **2.3 Data Requirement**

- Users will be signed in via email, Mobile number, and password.
- Users have to ensure that the new password and confirmed password are the same.
- Users will be signed in via email, Mobile number, and password.
- One-time password should match with the system admin sent code.

## **2.4 Performance Requirements**

### **2.4.1 Speed & Latency Requirement:**

- Request should take no more than 3 seconds.
- Planning should be as fast as possible.

### **2.4.2 Accuracy Requirements:**

- Ensure timely delivery of products.
- Monitor products.

### **2.4.3 Capacity Requirements:**

- The business will plan a three-month program.
- We offer 24/7 service.

## **2.5 Dependability Requirements:**

### **2.5.1 Reliability requirements:**

- Reliable schedule management for suppliers and delivery personnel.
- Customers should be able to search for specific medicines in a dependable field.
- Ensuring user profiles are reliable for all users.

### **2.5.2 Availability Requirements**

- All customers must have access to medicine services.
- Make customer requests available to system administration or service providers.

### **2.5.3 Robustness or Fault-Tolerance Requirements:**

- Customers can erase incorrect requirements.
- The admin can accept or deny the requirement.

### **2.5.4 Safety-Critical Requirements**

- Customers can erase incorrect requirements.
- The admin can accept or deny the requirement.
- Management can acquire customer information from profiles before accepting requests.
- Admins can deactivate and reactivate users at any moment.

## **2.6 Maintainability & Supportability Requirements**

- The admin is primarily responsible for system maintenance.  
The secondary admin panel monitors the server's status, including uptime and downtime.

### **2.6.2 Supportability Requirements:**

- The system must support multiple devices, including Android, Windows, Mac, and Linux.
- Only valid profiles based on ID cards will be allowed.

### **2.6.3 Adaptability Requirements:**

- Support multiple users at once.
- Allow profile picture uploads.

### **2.6.4 Scalability and Extensibility Requirements:**

- Account recovery via Google email.
- Continuous access to customer support.

## **2.7 Security Requirement**

- Only the delivery man can transmit the request to the admin.
- The timetable can only be managed by the admin.
- Both the delivery man and the consumer can add their profiles.
- Administrators can only manage users.

## **2.8 Usability and human-Interaction Requirements**

- Internationalization and personalization Conditions:
- Comprehension and Etiquette: Crucial prerequisites:
- Needs for Accessibility:
- Needs for User Documentation:
- Prerequisites for training:

## **2.9 Look and Feel Requirements**

- The style should be nice and standard.
- Select colors that are pleasing to the eye and fresh.
- Users will have the option to choose dark mode.
- To enhance user experience, we propose implementing a popup that improves usability.

## **2.10 Operational and Environment Requirements**

- The desktop computer will have a nice appearance for the system. There must be a responsibility component on the website.
- For the first time the customer will get a specific discount.

## **2.11 Functional Requirement Mapping**

- 
- Finalized Functional Requirements Document (F.R.ID)
- FR-1: Register account
- FR-2: Login
- FR-3: Browse Ads

- FR-4: Search Ads
- FR-5: Post Ad
- FR-6: Edi Ad
- FR-7: Delete Ad
- FR-8: Report Ad
- FR-9: Contact Seller
- FR-10: Moderate Ads
- FR-11: Manage User Profile
- FR-12: Administer Platform
- FR-13: Rate and Review User

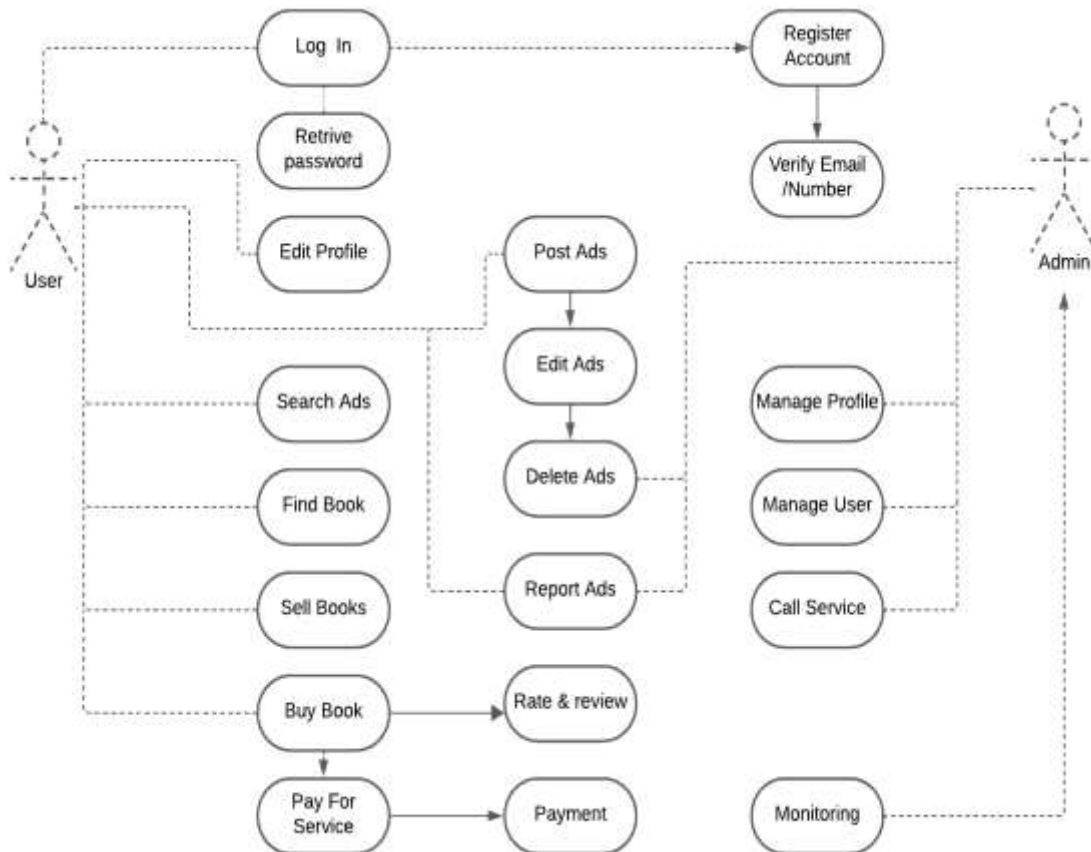
### Chapter 3 : System Analysis

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We have Two types of users for this application.

- **User:** A user who is browsing the platform without being registered.
- **Admin:** An administrative user responsible for managing the platform.

#### 3.1 Use Case Diagram



**Figure 3.1.1: Use Case Diagram.**

## 3.2 Identifying Use Cases

### 3.2 Identifying Use Cases

- UC-1 Register Account
- UC-2 Login
- UC-3 Browse Ads
- UC-4 Search Ads
- UC-5 Post Ad
- UC-6 Edit Ad
- UC-7 Delete Ad
- UC-8 Report Ad
- UC-9 Contact Seller
- UC-10 Moderate Ads
- UC-11 Manage User Profile
- UC-12 Administer Platform.
- UC-13 Rate and Review User.

### 3.3 Finding Examples of Use Case

Use Case Id	UC-1
Use Case name	Registration or create an account
Scenario	Users can register to create a new account.
The event that triggers	Click the "Sign up" button if you would like to establish a new account.
A synopsis	To create an account, users must supply basic information about themselves: First Name, Last Name, Email, Password, and user type: customer or Seller.
Actors	Customer, Seller.
Extending use case	Log in
Included use case	Verify email & phone number.
Stakeholders	Customer, Seller
Before Conditioning	user must have a new email address in order to register for a new account. Email address in order to register for a new account.
Alternative path	Not one
Exceptional path	Not one

Post-Condition	email address to register for a new account. Email address to register for a new account.
----------------	---

Use Case Id	UC-2
Use Case name	Verify email & phone number.
Scenario	When the Delivery man, Customer can create an account, they will need to verify their email & phone number. Admin can observe that.

Triggering event	If any customer or delivery man clicks on “verify email & phone number” button.
Brief description	They could write a 6-digit code for verification.
Actors	Customer, Delivery Man.
Extending use case	Not one
Included use case	Not one
Stakeholders	Customer, Delivery Man.
Pre-Condition	None
Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Verify” button</li> <li>2. Get the modal “Profile”</li> <li>3. Click any link on that</li> <li>4. Get a new tab with that clicked item.</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-3
Use Case name	Log in
Scenario	Users can Log in to the system if they have an account.

Triggering event	Click the "Sign in" button if you would like to log in to the system. This page will show up if you wish to utilize any function that needs authentication.
Actors	Customer, Delivery Man
Extending use case	Retractive Password
Included use case	None
Stakeholders	Customer, Delivery Man, Admin

Pre-Condition	The user must have an account and remember the password to login to the System.
Basic path	<ol style="list-style-type: none"> <li>1. Click on the "Sign in" button</li> <li>2. Get Sign in page</li> <li>3. Enter the Email</li> <li>4. Enter the Password</li> <li>5. Click on the Login button</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Every input needs to match the account information.

Alternative path	Not one
Exceptional path	Not one
Post-Condition	A new password must be matched.

Use Case Id	UC-5
Use Case name	Browse ads
Scenario	Users can browse the book ads of the website. Counselor, Admin can browse books. User can check their book.
Triggering event	If any user clicks on the “Profile” button.
Brief description	When a user clicks on the counselor's profile, a modal with links will appear, allowing the user to open any link in a new browser tab. Only the administrator and counselor can access the client's profile, while each user can view their own profile from the dashboard.
Actors	User
Extending use case	Customer call service
Included use case	Not one
Stakeholders	User
Pre-Condition	None

Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Browse ads” button</li> <li>2. Change valid document”</li> <li>3. Click any link on that</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-6
Use Case name	Search Ads
Scenario	Customer can search their ads. Admin can view customer & delivery man Profile. User can check their search history.
Triggering event	If any customer or delivery man clicks on the “search ads” button.
Brief description	They can click on the search ads button and change their valid document.
Actors	Customer, Delivery Man, Admin
Extending use case	Not one
Included use case	Not one
Stakeholders	Customer, Delivery Man, Admin
Pre-Condition	None
Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Browse ads” button</li> <li>2. Get the modal “Ads”</li> <li>3. Click any link on that</li> <li>4. Get a new tab with that clicked item.</li> </ol>
Alternative path	Not one

Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-7
Use Case name	Post Ad
Scenario	Seller can post their ad.

Triggering event	If any seller clicks on post ad” button.
Brief description	the seller can easily post us for their ad.
Actors	Seller, Admin
Extending use case	None
Included use case	None
Stakeholders	Seller, Admin
Pre-Condition	None
Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Post” button</li> <li>2. Get the modal “Post Ad”</li> <li>3. Click any link on that</li> <li>4. Get a new tab with that clicked item.</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-8
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Use Case name	Edit Ad
Scenario	Seller and admin can edit ad
Triggering event	If any seller clicks on the”Edit” as requirement button.

Brief description	Seller will get Edit Service.
Actors	Seller, Admin
Extending use case	Found book nearby location
Included use case	None
Stakeholders	Seller, Admin
Pre-Condition	Customers must confirm how they will get
Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Edit ad” button</li> <li>2. Get the services”</li> <li>3. Select one from that</li> <li>4. Get a new tab with that clicked item.</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-9
Use Case name	Delete Ad
Scenario	Seller can delete their ad.
Triggering event	If any Seller clicks on the” Delete” button.

Brief description	Seller can Delete this ad to easily and post new ad
Actors	Seller, Admin
Extending use case	
Included use case	None
Stakeholders	Seller, Admin
Pre-Condition	The seller must turn on their delete ad service.
Basic path	1. Click on the “Delete Ad” button 2. Get the book from the library”
Alternative path	None
Exceptional path	None
Post-Condition	None

Use Case Id	UC-10
Use Case name	Contact seller
Scenario	Customers can contact the seller for service.
Triggering event	If any customer clicks on the” Contact for service button.
Brief description	When Customer select their books and confirm their order, they will contact for this.
Actors	Seller, Admin

Extending use case	None
Included use case	Contact seller
Stakeholders	Customer, Admin
Pre-Condition	Customer must contact us after confirming their order.
Basic path	1. Click on “contact seller” button

	2. Get the contact method.
Alternative path	None
Exceptional path	None
Post-Condition	None

Use Case Id	UC-11
Use Case name	Report Adss
Scenario	When the customer pays for their service. They will get confirmation.
Triggering event	If any customer clicks on the" Payment confirmation button.
Brief description	When Customer select their medicine and confirm their order, they will pay for this. Then admin can receive this payment and he will be sent a confirmation message.
Actors	Customer, Admin
Extending use case	

Included use case	None
Stakeholders	Customer, Admin
Pre-Condition	Customer must pay after confirming their order.

Basic path	1. Click on the “Payment Confirmation” button 2. Get the payment method.
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-12
Use Case name	Moderate Ads
Scenario	Once the customer confirms their order, they will be able to see the live location of the delivery person.
Triggering event	If any customer clicks on the” Monitoring delivery man live location button.
Brief description	When Customer selects their medicine and confirm their order, they will monitor the delivery man's live location by using a wall map in this system are available.
Actors	Customer, delivery man, Admin
Extending use case	Not one
Included use case	Not one

Stakeholders	Customer, delivery man, Admin
--------------	-------------------------------

Pre-Condition	Customer must turn on their device location.
Basic path	1. Click on the “Monitoring delivery man live location” button 2. They will be monitoring the delivery man's location.
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

Use Case Id	UC-13
Use Case name	Manage user profile
Scenario	Admin manages all the activity or processes of this system.
Triggering event	If any problem occurs, Admin will maintain this.
Brief description	Admin will manage all kinds of activity like customer activity, and delivery man activities. If any customer faces any problem in this system, the admin will find out this problem and as soon as possible he will maintain this problem very carefully.
Actors	Customer, delivery man, Admin
Extending use case	Delivery Man activity.
Included use case	Customer activity

Stakeholders	Customer, delivery man, Admin
Pre-Condition	Not one

Basic path	<ol style="list-style-type: none"> <li>1. Click on the “Monitoring delivery man live location” button</li> <li>2. They will be monitoring the delivery man's location.</li> </ol>
Alternative path	Not one
Exceptional path	Not one
Post-Condition	Not one

### 3.4 Activity Diagram

Use Case-1: Registration or create an account (Actors: Customer)

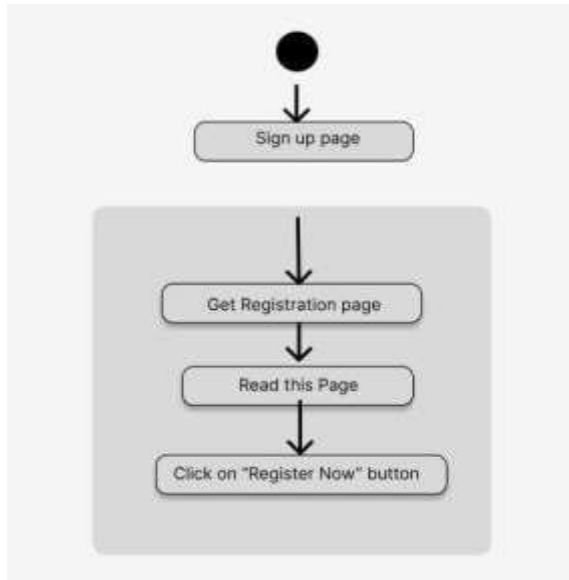


Figure3.4.1: Register Account

### UC-2: Login

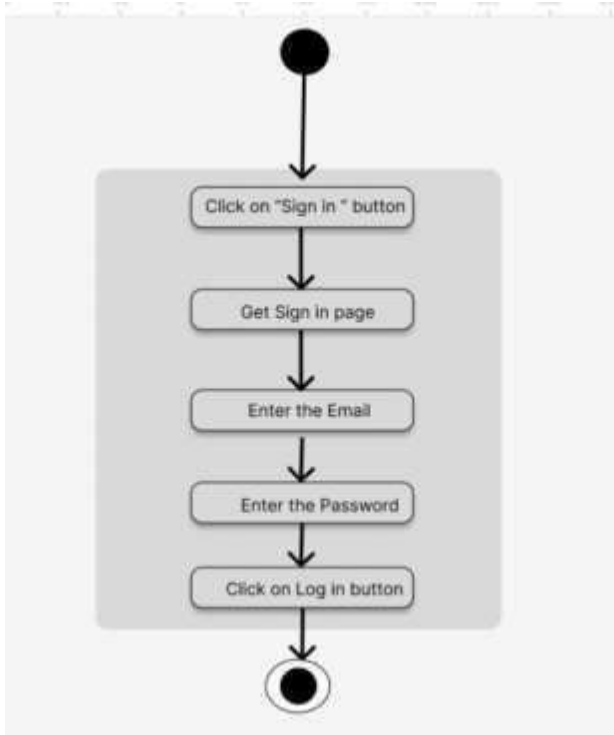


Figure3.4.2: Login

### US-3 Browse Ads

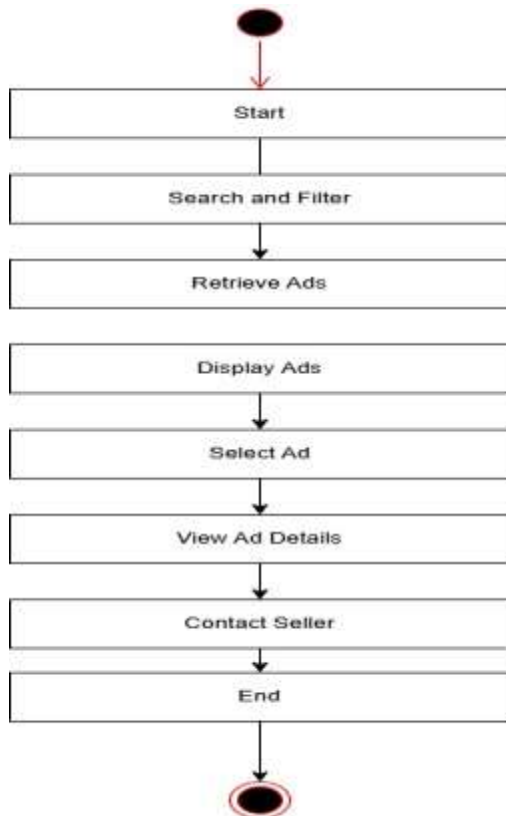


Figure3.4.3: Browse Ads

### US-4 Search Ads

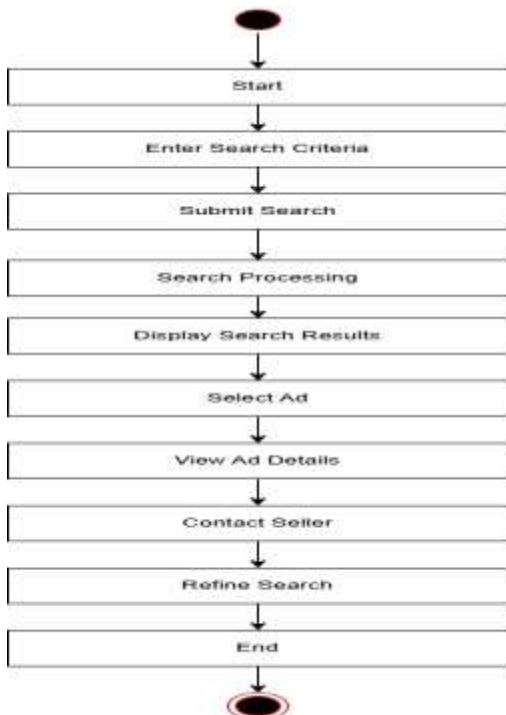
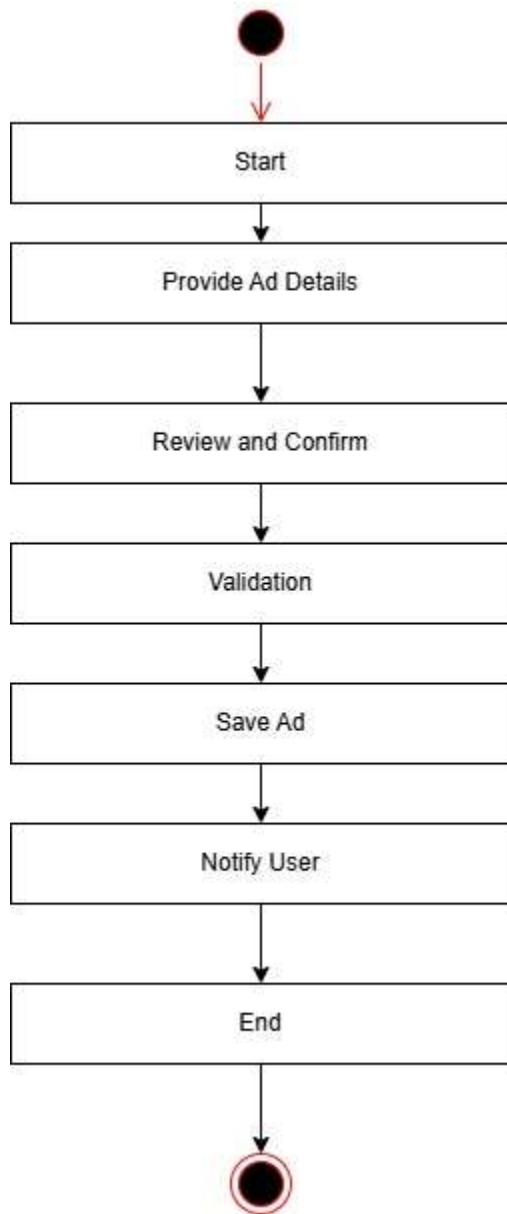


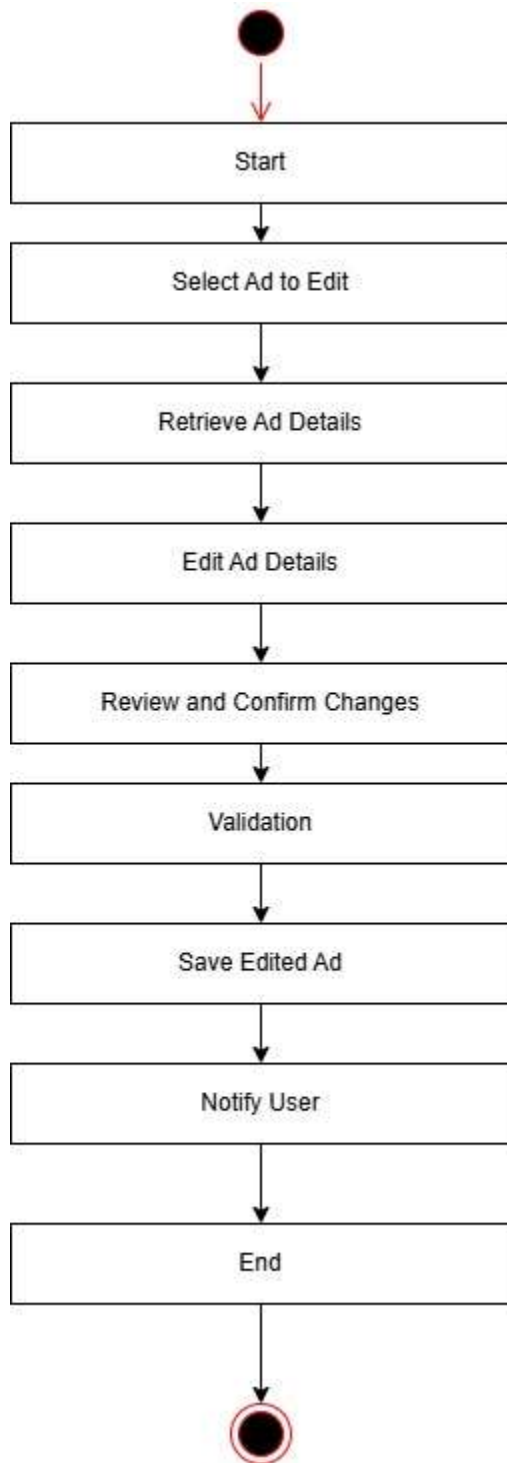
Figure3.4.4: Search Ads

US-5 Post Ad



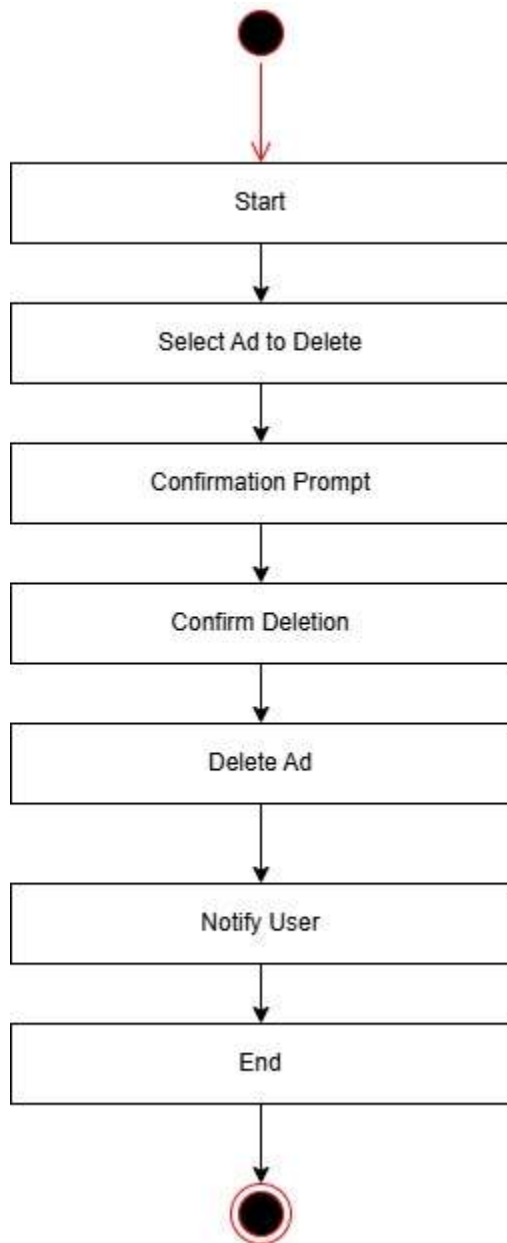
**Figure3.4.5: Post Ad**

## US-6 Edit Ad



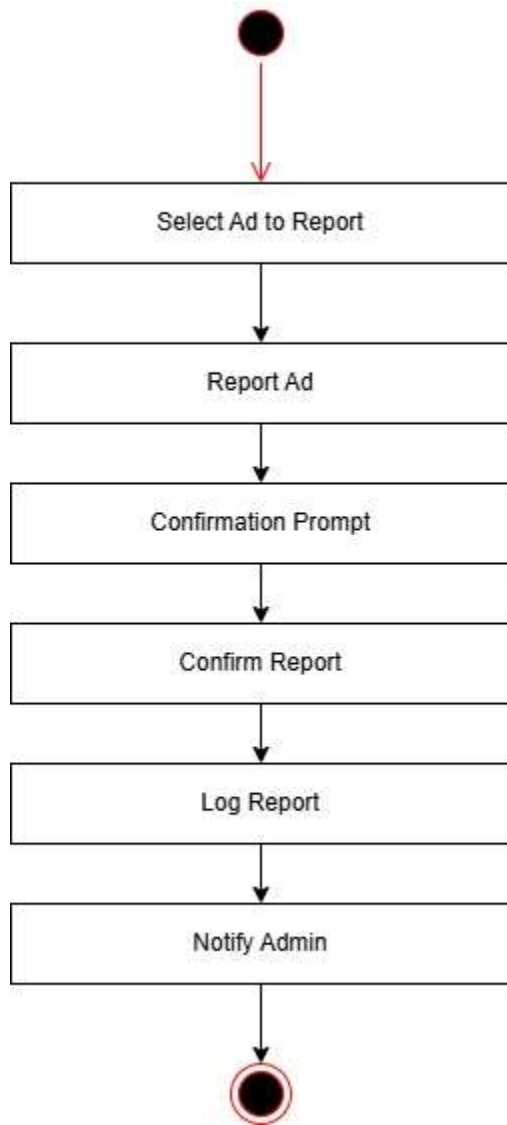
**Figure3.4.6: Edit Ad**

### US-7 Delete Ad



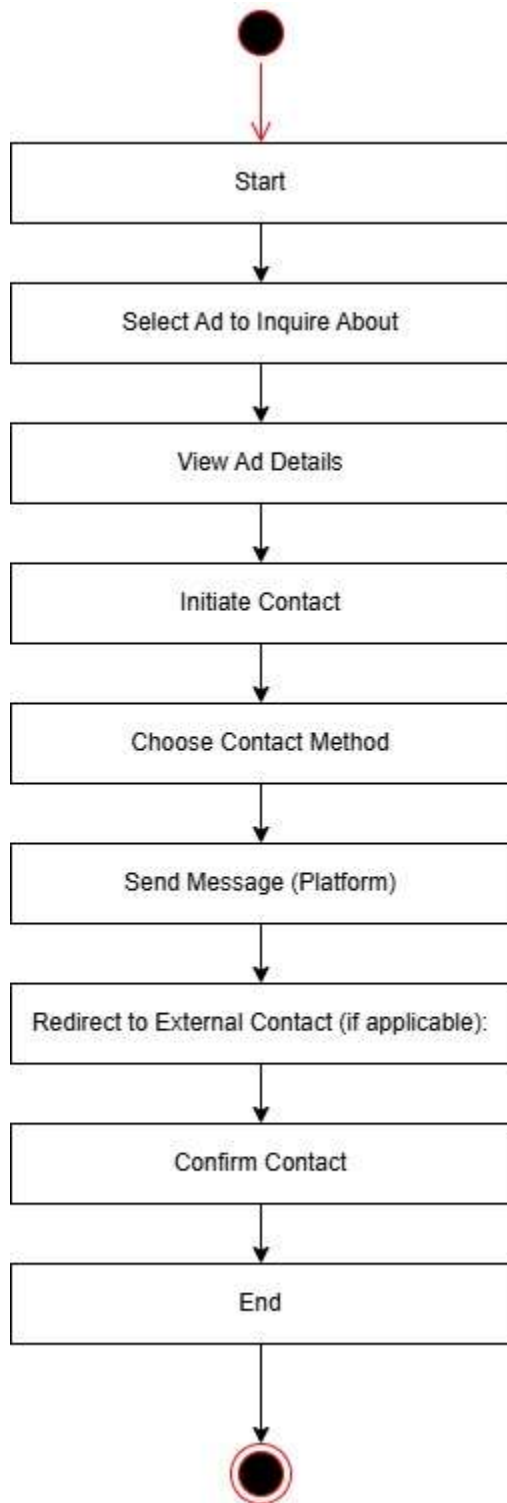
**Figure3.4.7: Delete Ad**

### US-8 Report Ad



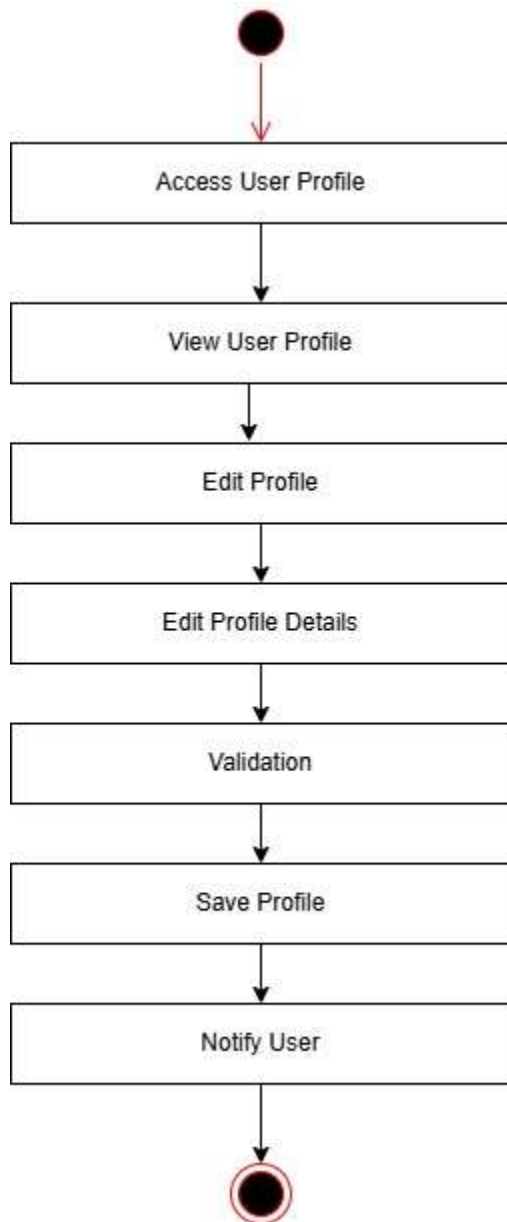
**Figure3.4.8: Report Ad**

### US-9 Contact seller



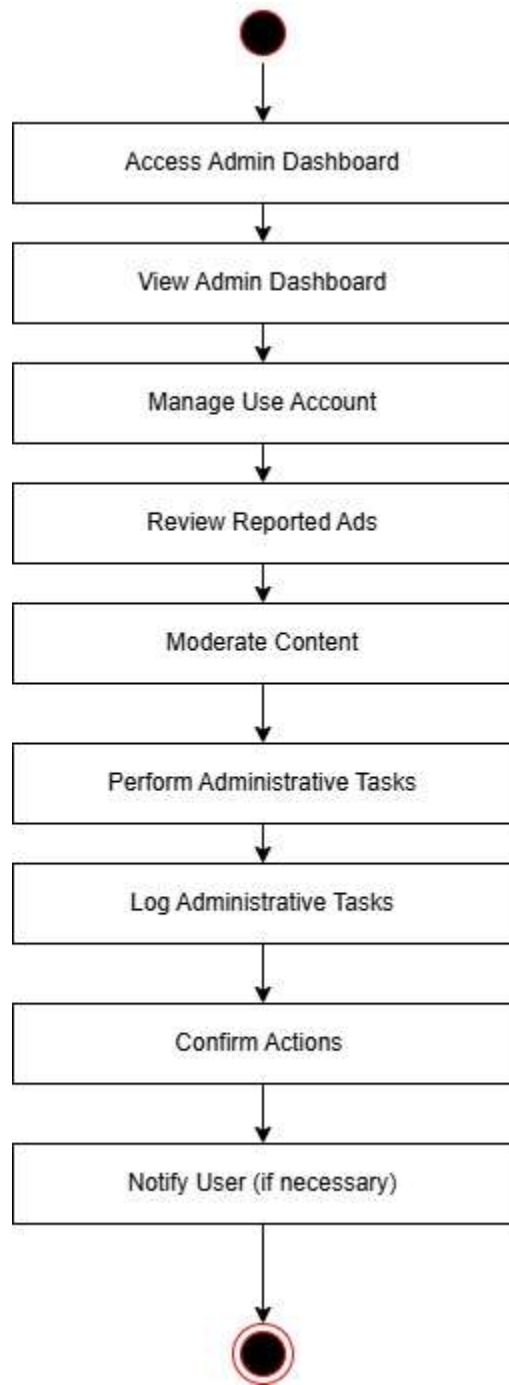
**Figure3.4.9: Contact Seller**

### US-10 Moderate Ads



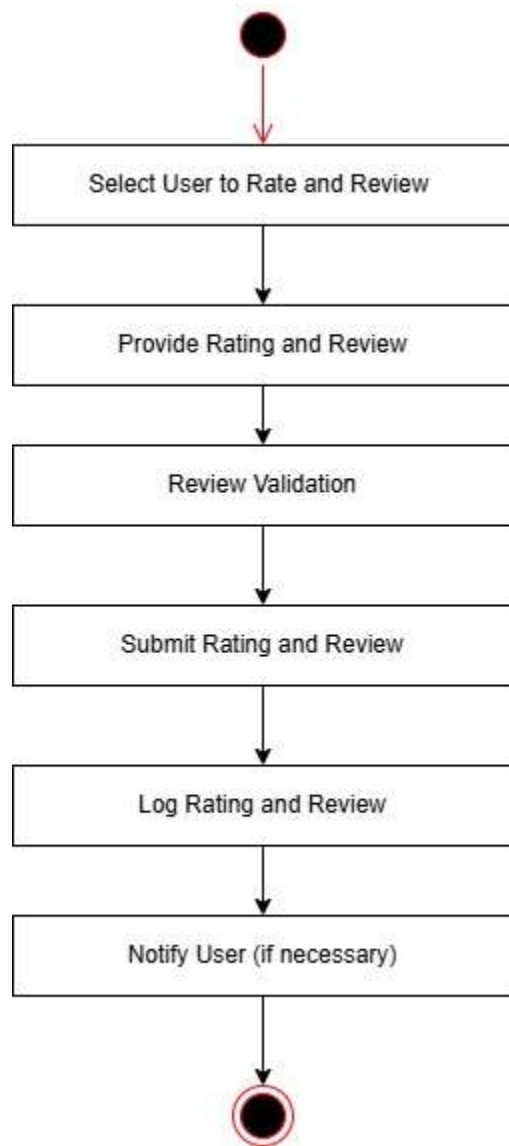
**Figure3.4.10: Moderate Ads**

## US-11 Administer Platform



**Figure3.4.11: Administer Platform**

### US-12 Rate and Review User



**Figure3.4.12: Rate and Review User**

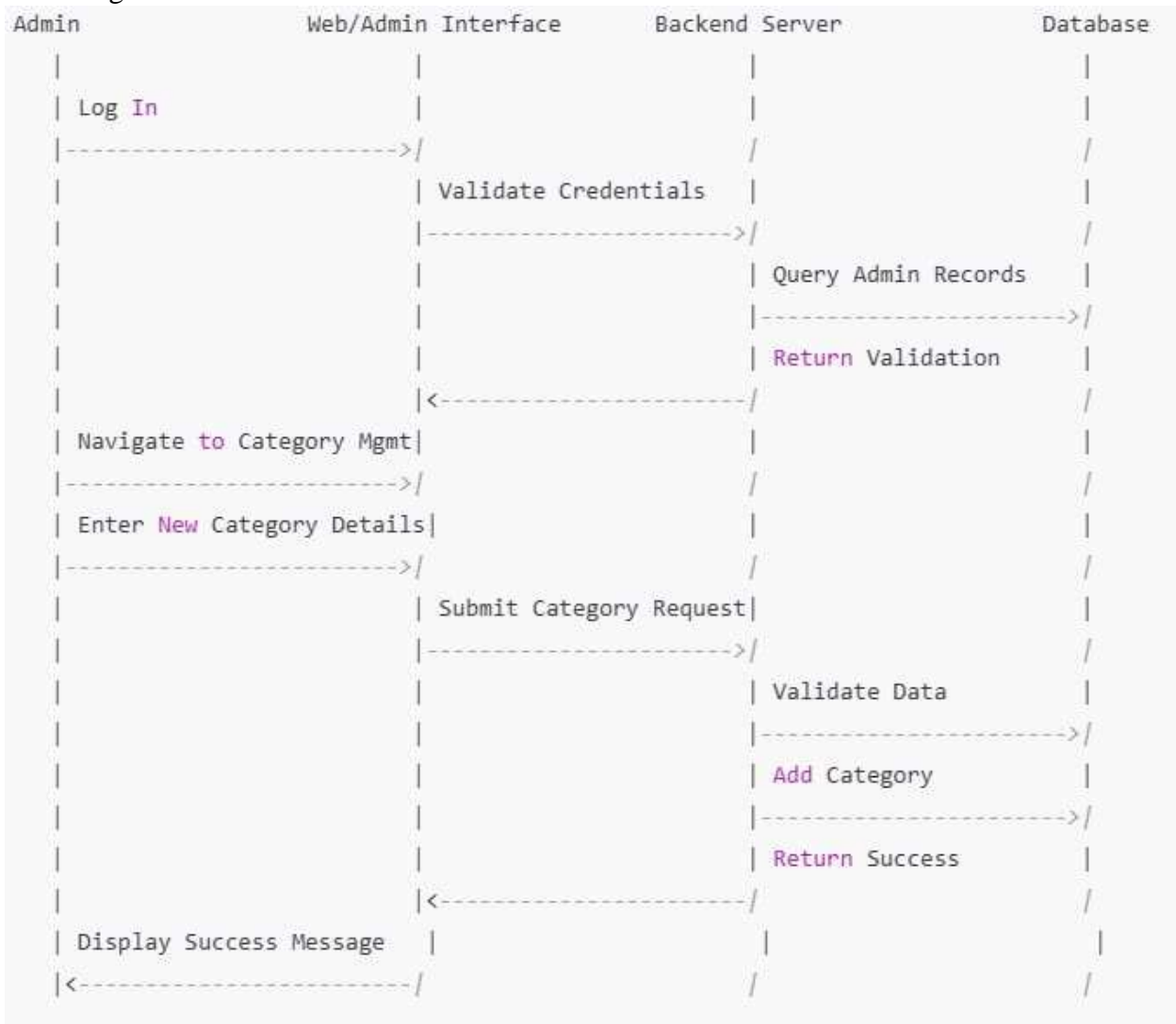
### 3.5 System Sequence Diagram

#### US-1 Register Account



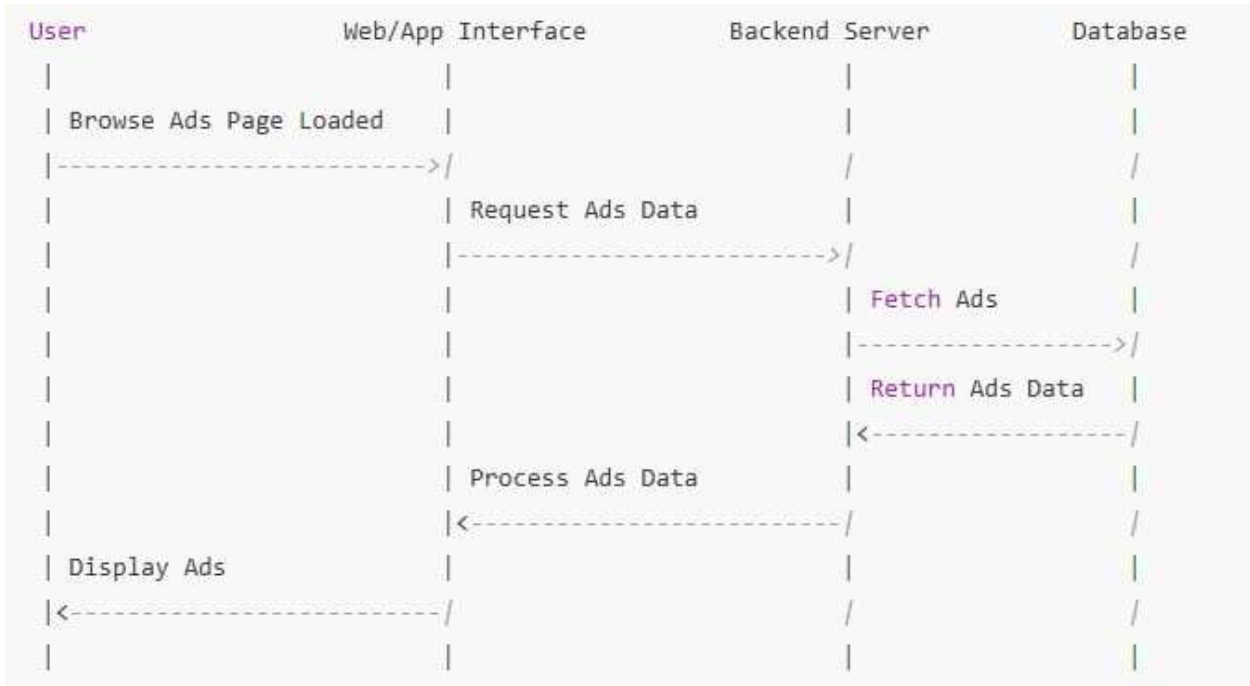
Figure3.4.1: Register account

## US-2 Login



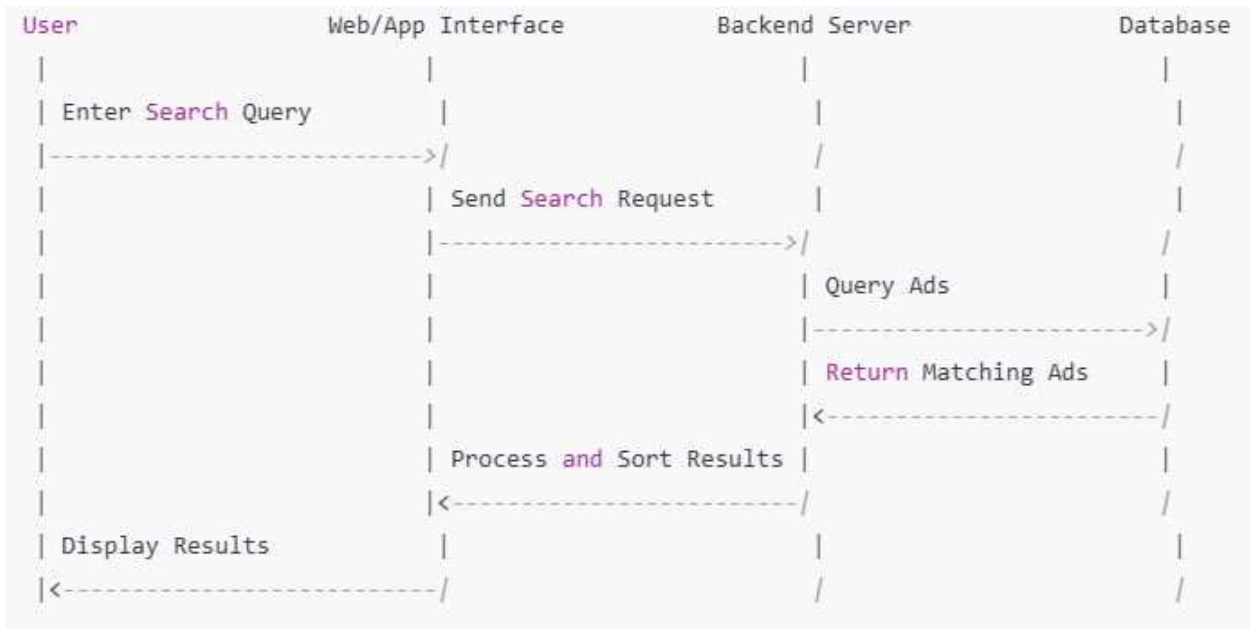
**Figure 3.4.2: Login:**

### US-3 Browse Ads



**Figure3.4.3: Browse Ads**

### US-4 Search Ads



**Figure3.4.4: Search Ads**

### US-5 Post Ad

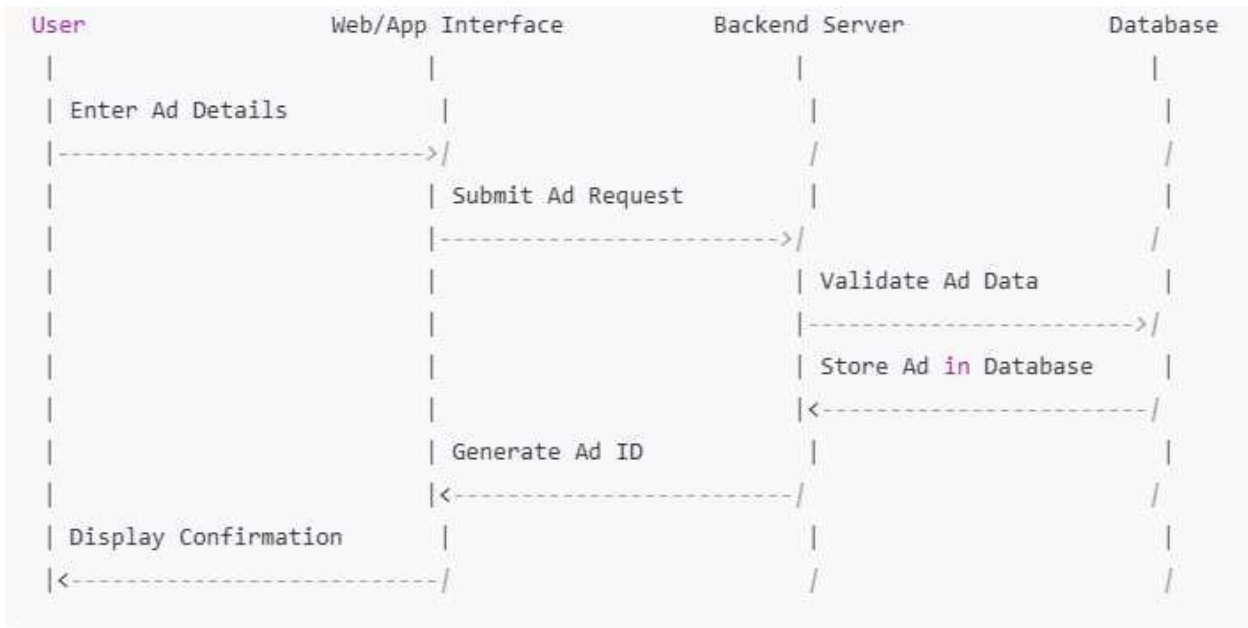


Figure3.4.5: Post Ad

### US-6 Edit Ad

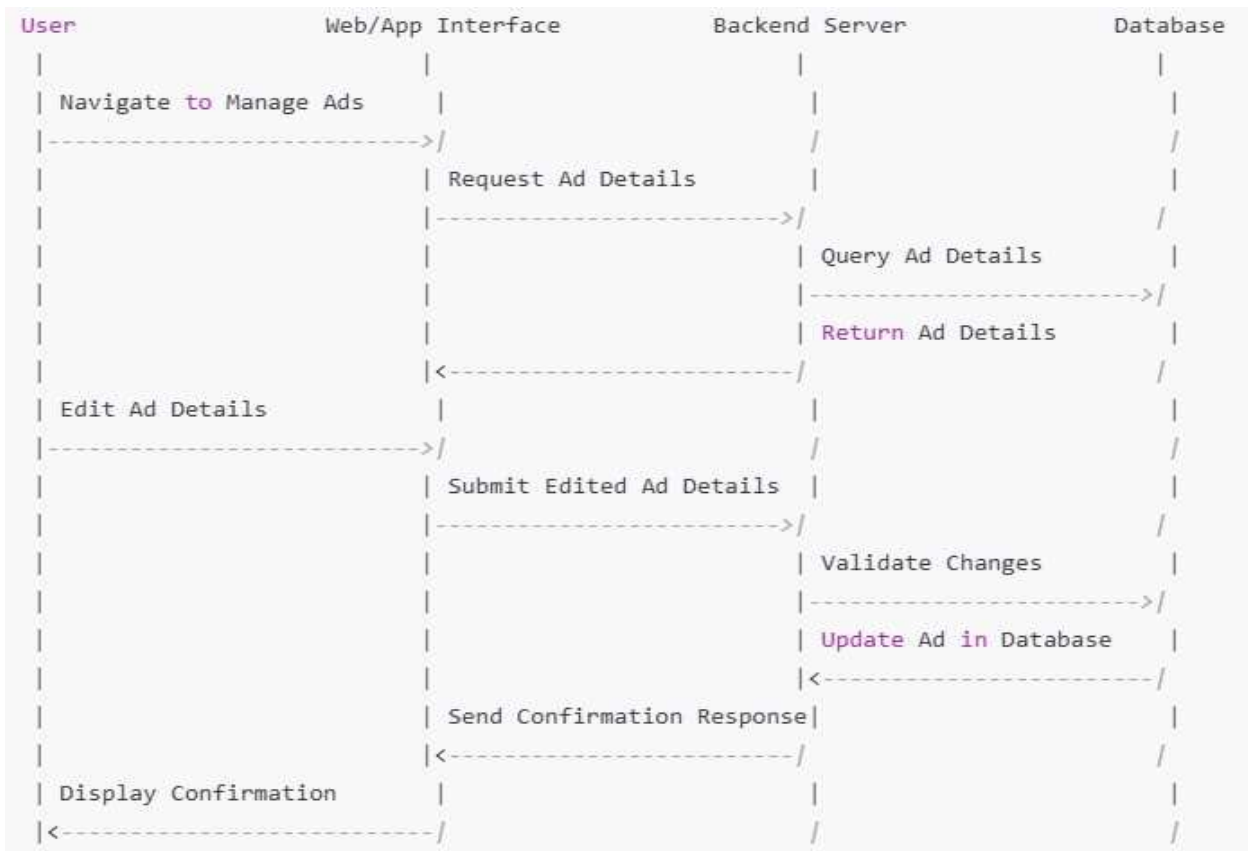
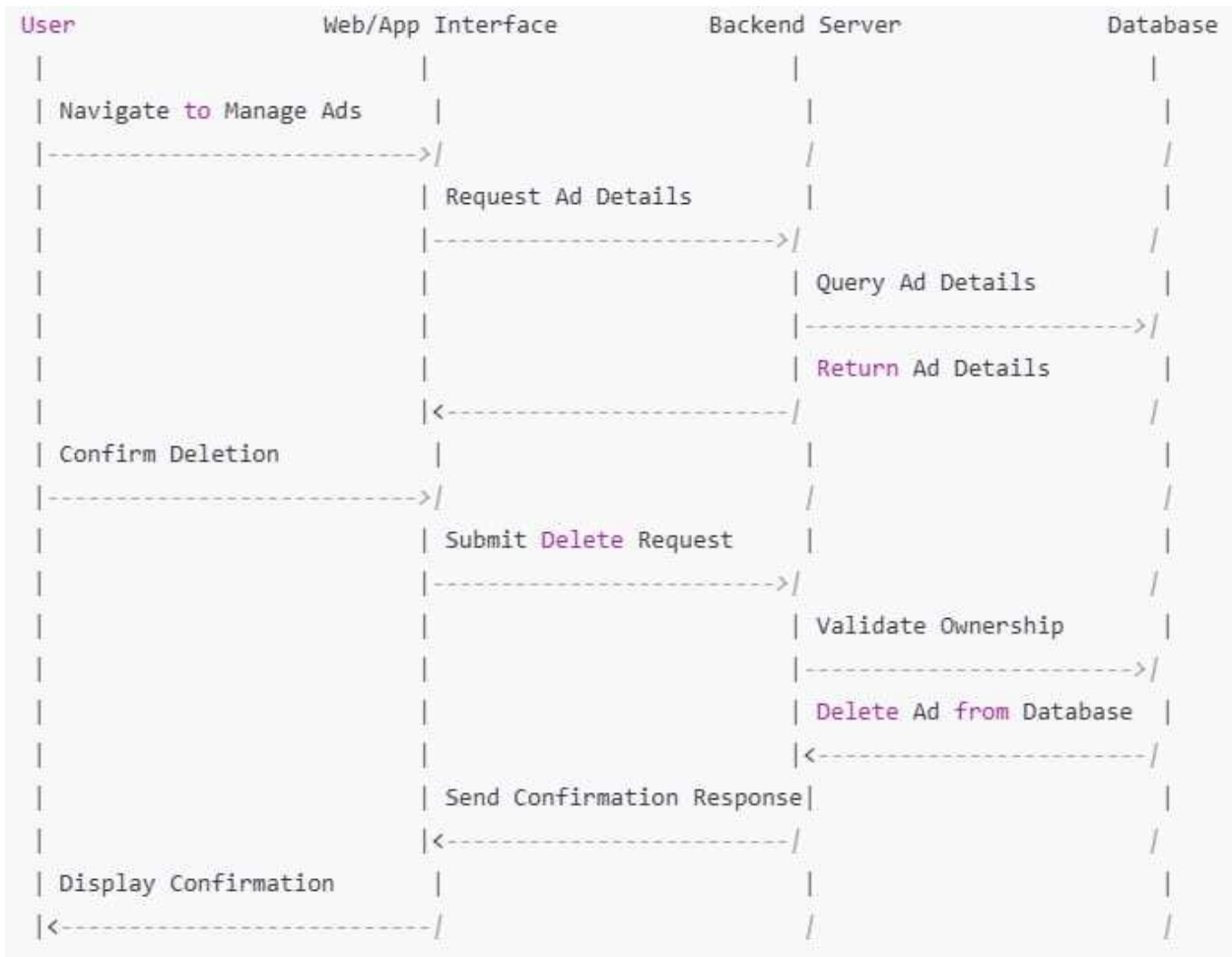


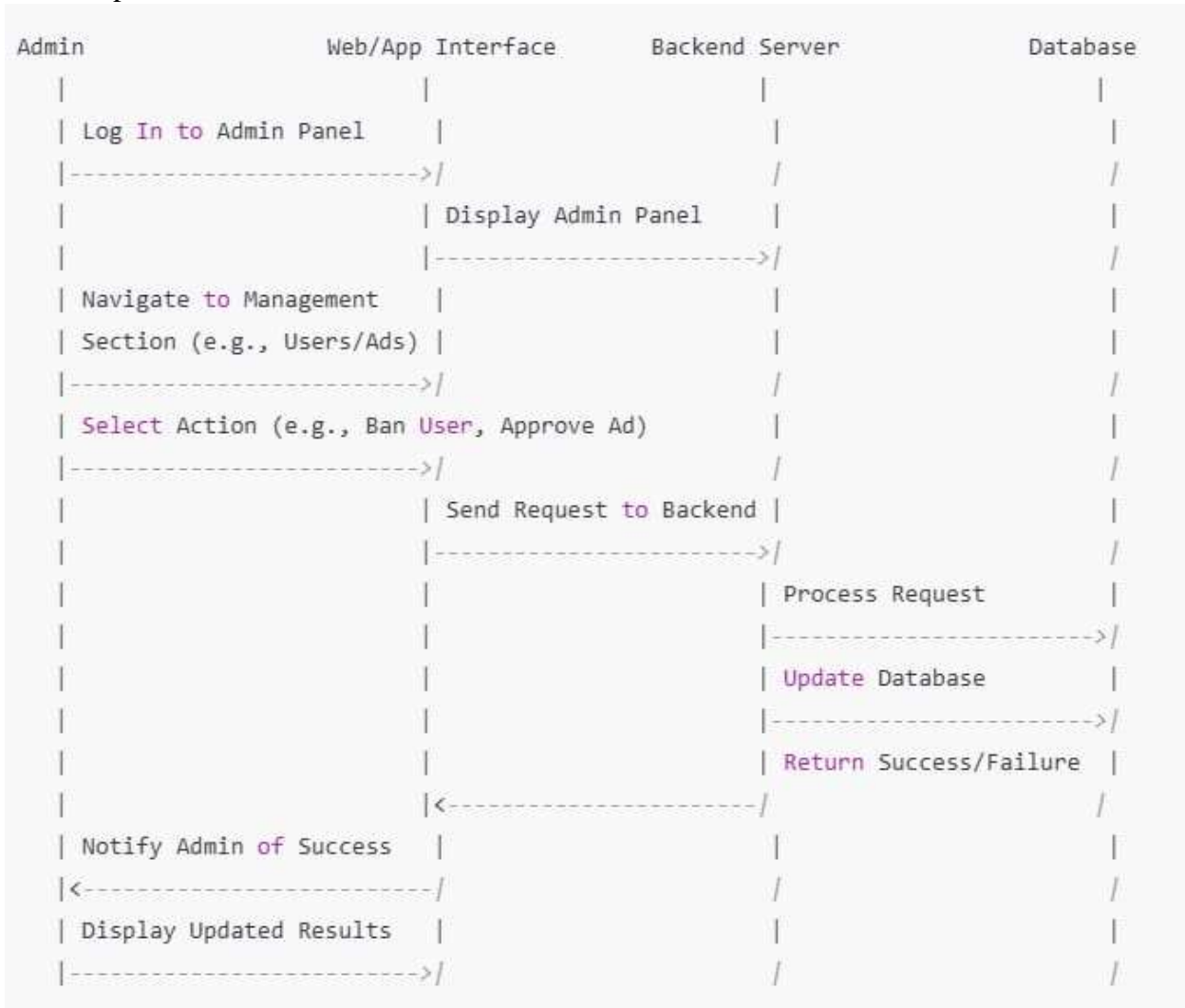
Figure3.4.6: Edit Ad

### UC-7 Delete Ad



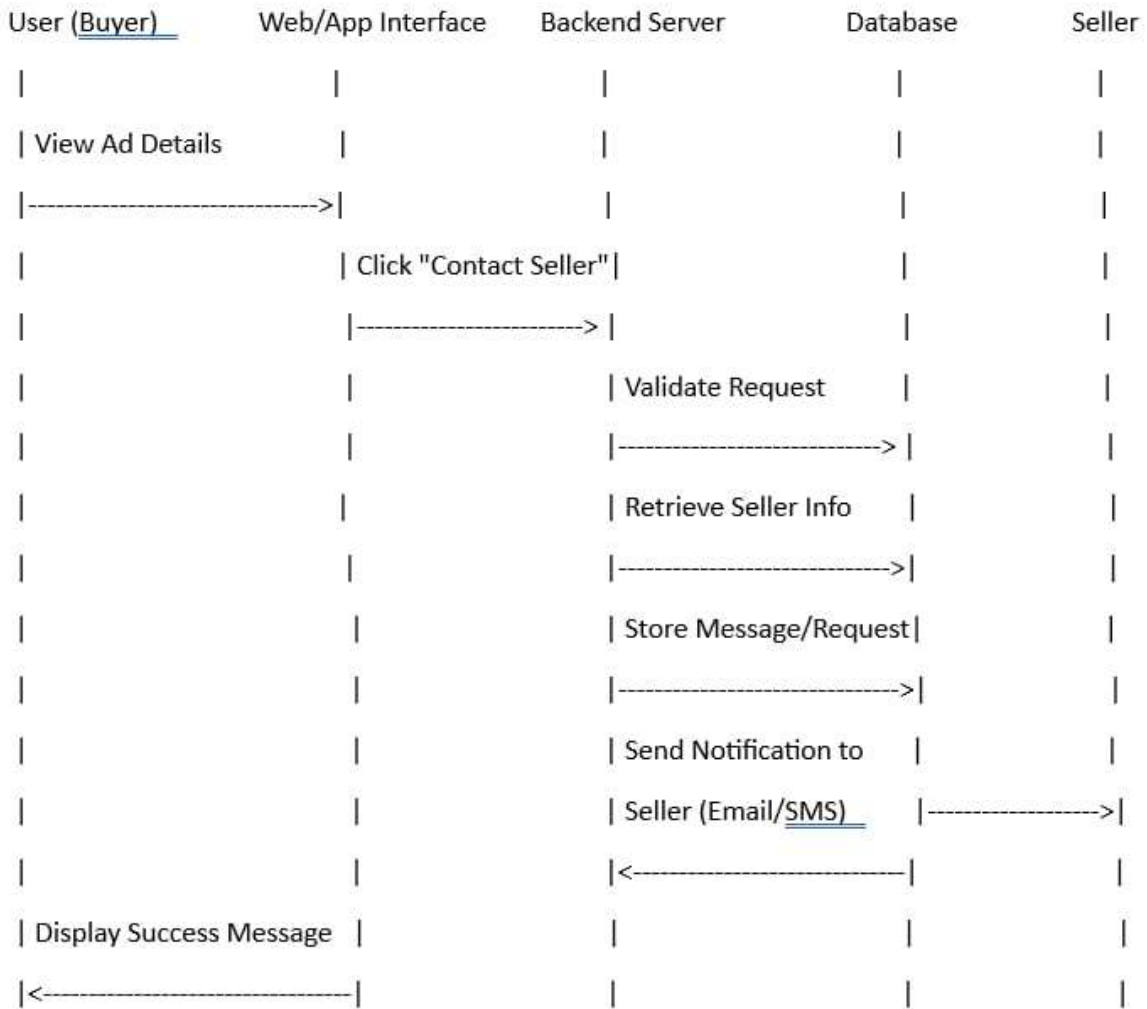
**Figure3.4.7: Delete Ad**

## UC-8 Report Ad



**Figure3.4.8: Report Ad**

## UC-9 Contact Seller



**Figure3.4.9: Contact Seller**

## UC-10 Moderate Ads

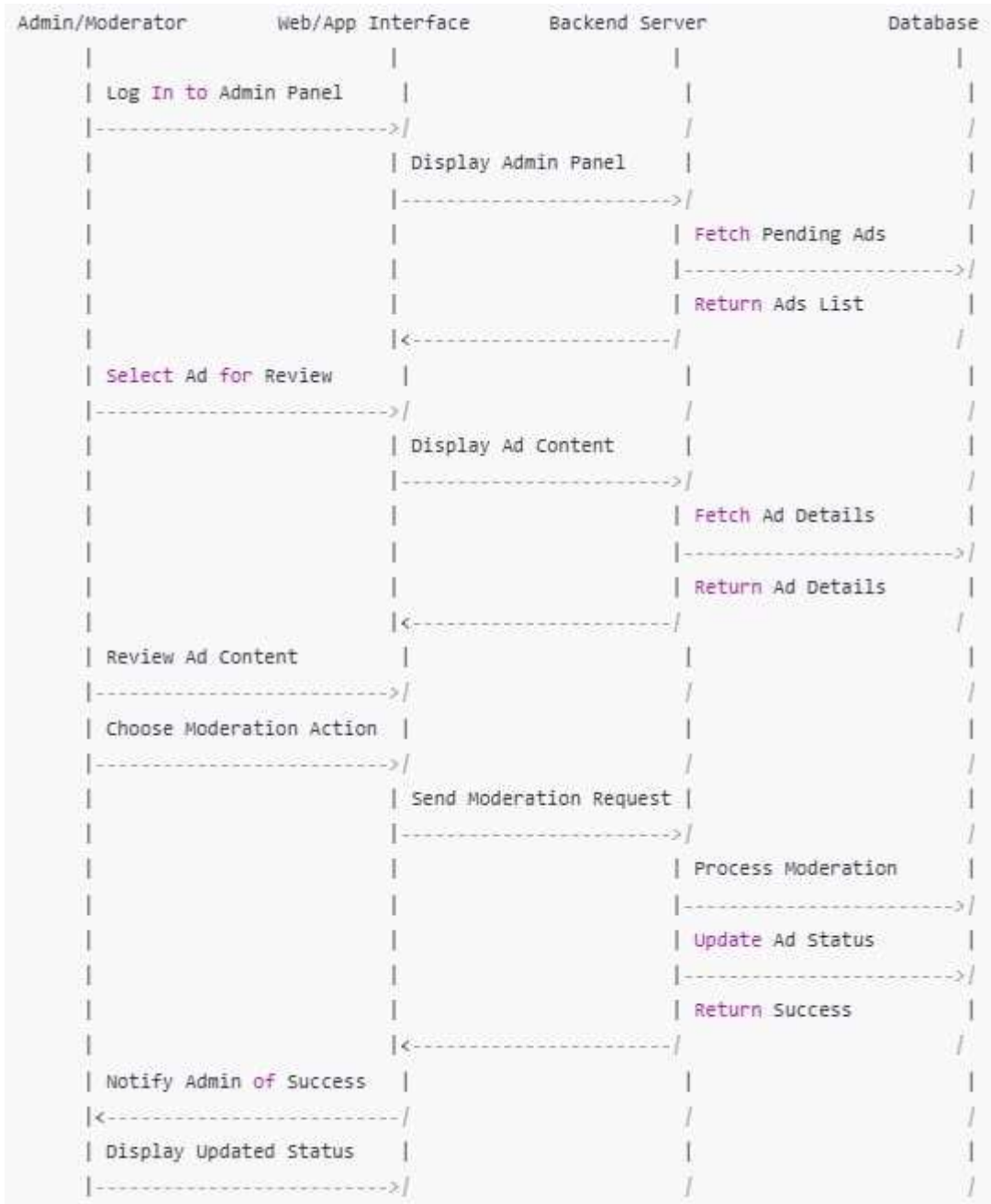
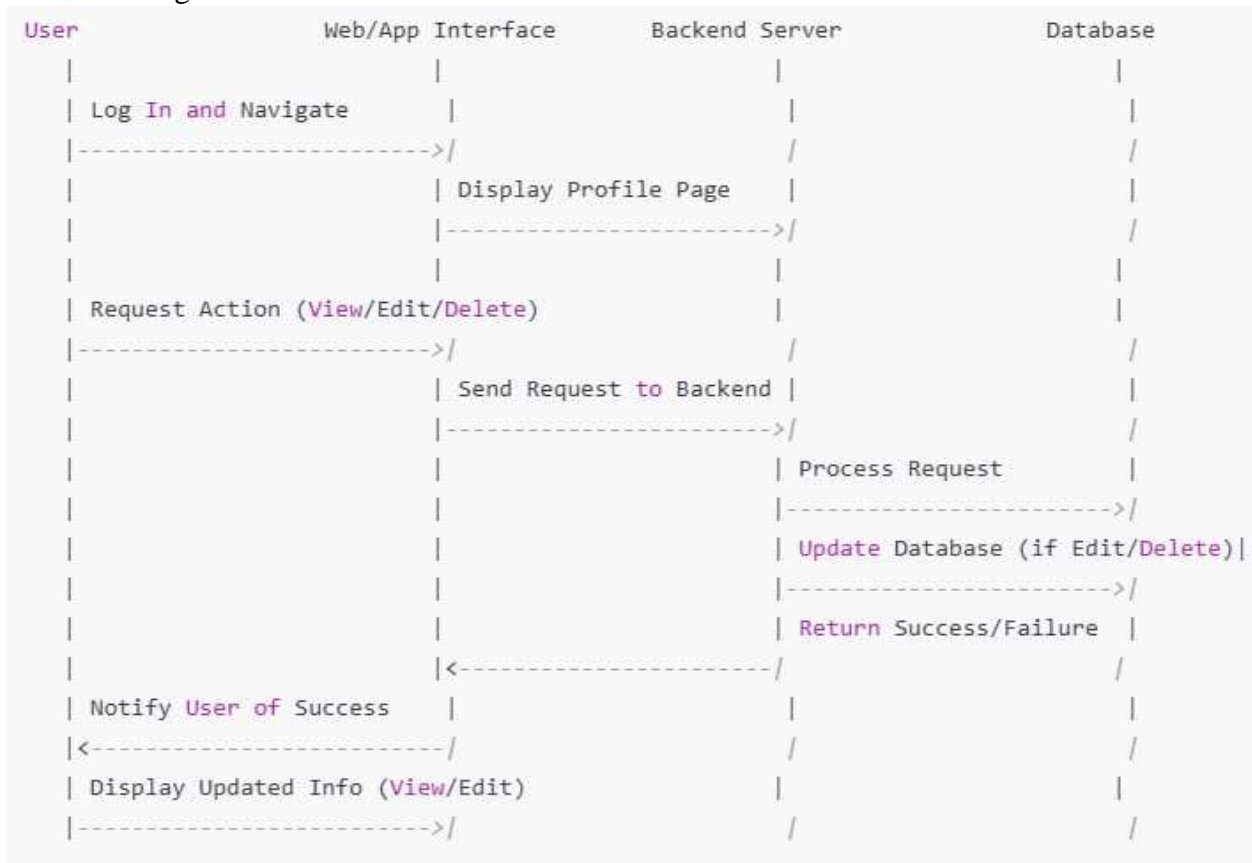


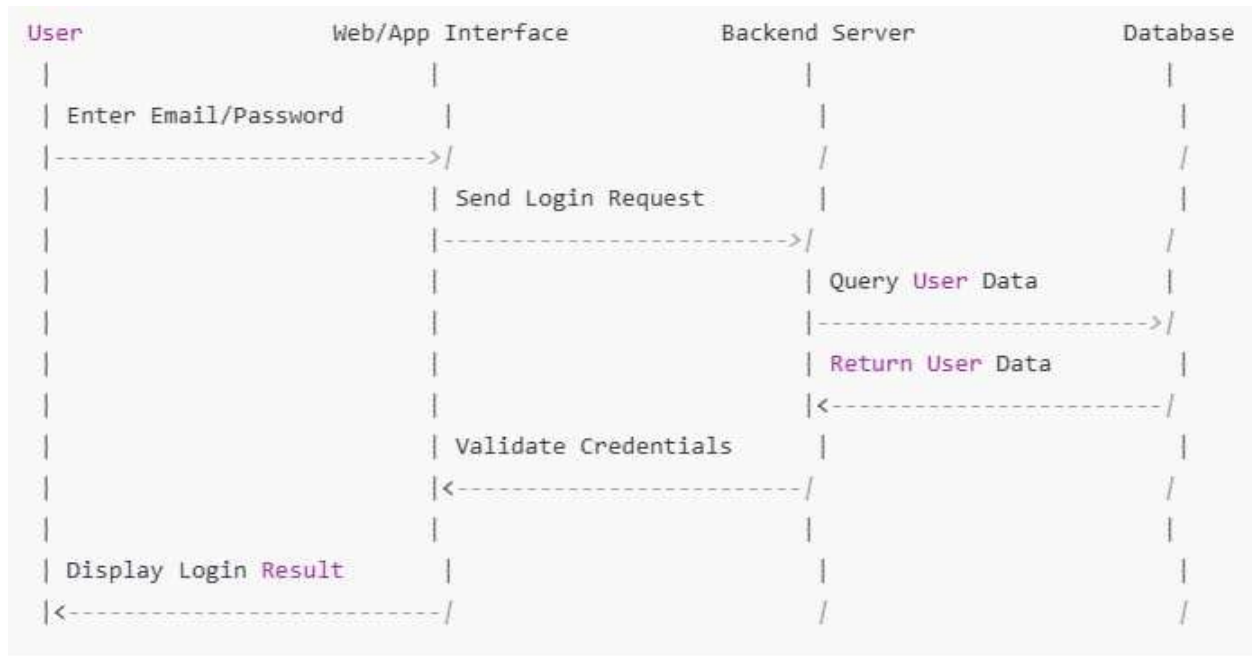
Figure 3.4.10: Moderate Ads

### UC-11 Manage User Profile



**Figure3.4.11: Manage User Profile**

### UC-12 Administer Platform.



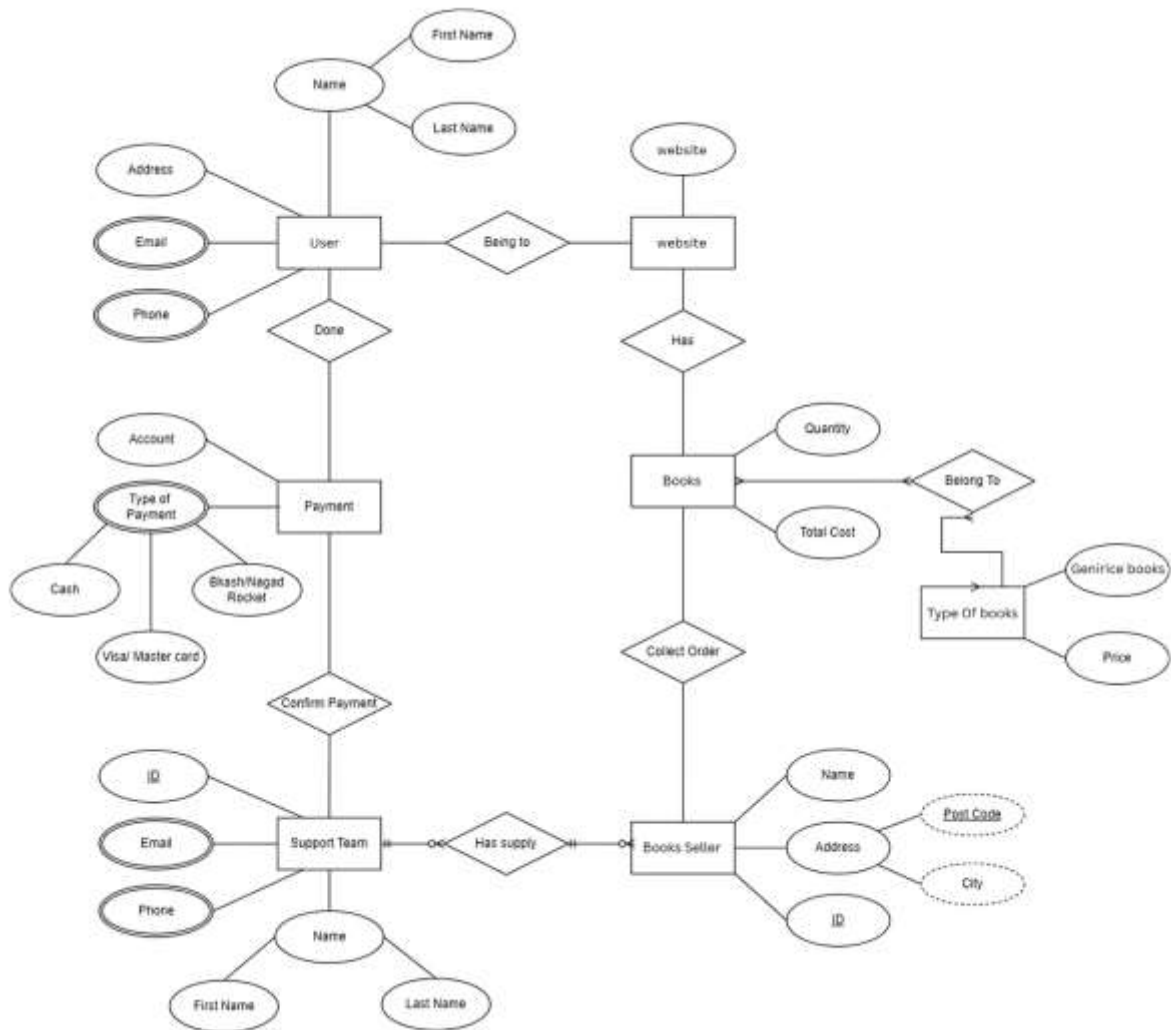
**Figure3.4.12: Administer Platform**

UC-13 Rate and Review User.



Figure3.4.13: Rate and review user

**Chapter 4 System Design Specification**  
**4.1 Entity Relationship Diagram**



**Figure4.1.1: Rate and review user**

#### 4.2 Swot analysis

<b>Strengths</b>	<b>Opportunities</b>
<ul style="list-style-type: none"><li>• Old Books offering in affordable price</li><li>• Easy to find necessary Books</li></ul>	<ul style="list-style-type: none"><li>• Helping the Geographic environment</li><li>• Few competitors in our area</li></ul>
<b>Weakness</b>	<b>Threats</b>
<ul style="list-style-type: none"><li>• Not enough brand recognition &amp; resource</li><li>• Aging of books difficulty retain</li></ul>	<ul style="list-style-type: none"><li>• Changing curriculum</li><li>• Supply Chin Challenge</li></ul>

## 5.1 Plagiarism percentage results

### Online Old Book Buy and Sell"

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