ONLINE PRODUCT RATING SYSTEM

BY

Md. Al Mamun
ID: 182-15-11710

Sheikh Hossain Ahmmad
ID: 182-15-11756

Md. Aminul Islam
ID: 182-15-11489

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

Supervised By

Mr. Riazur Rahman
Assistant Professor
Department of CSE
Daffodil International University

Co-Supervised By

Mr. Md. Sadekur Rahman
Assistant Professor
Department of CSE
Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH
MAY 2021

©Daffodil International University

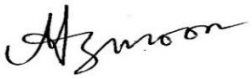
APPROVAL

This Project/internship titled "**Online Product Rating System**", submitted by Md. Aminul Islam, ID No: 182-15-11489 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 31-05-2021.

BOARD OF EXAMINERS

Chairman

Dr. Touhid Bhuiyan
Professor and Head
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University



Internal Examiner

Nazmun Nessa Moon
Assistant Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International Universit

Internal Examiner

Aniruddha Rakshit
Senior Lecturer
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

External Examiner

Dr. Mohammad Shorif Uddin
Professor
Department of Computer Science and Engineering
Jahangirnagar University

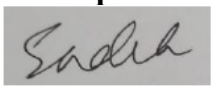
DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Riazur Rahman, Assistant Professor, and 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 or diploma.

Supervised by:

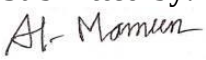
Mr. Riazur Rahman
Assistant Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Co-Supervised By:



Mr. Md. Sadekur Rahman
Assistant Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Submitted by:



Md. Al Mamun
ID: 182-15-11710
Department of CSE
Daffodil International University

Sheikh Hossain Ahmmad
ID: 182-15-11756
Department of CSE
Daffodil International University

Md. Aminul Islam
ID: 182-15-11489
Department of CSE
Daffodil International University

ACKNOWLEDGEMENT

First, we express my heartiest thanks and gratefulness to Almighty God for her divine blessing that makes us possible to complete the final year project successfully.

We are really grateful and wish my profound and indebtedness to **Mr. Riazur Rahman,** Assistant Professor**,** Department of Computer Science and Engineering at Daffodil International University, Dhaka. Deep knowledge & keen interest of our supervisor in the field of "Web Development" to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this project.

We would like to express our heartiest gratitude to **Professor Dr. Touhid Bhuiyan Professor & Head**, Department of Computer Science and Engineering in Daffodil International University, Dhaka, for his kind help to finish this project and also to other faculty members of the CSE department, Daffodil International University.

Finally, we must acknowledge with due respect the continuous support and patients of my parents.

ABSTRACT

Product review is an online platform where a user a see different type of product and their information with details. Suppose a people needed some products for his family like mobile phone, UPS, by-cycle, water-pump etc. but he does not understand which product is best. So he tries to search online like daraz.com, but he finds some product details. He also needs more product details. So, he tries to search another online platform like chaldal.com or evaly.com. After searching four or five times, he finds all product details and he understands which product is best. But he was not satisfied because he had spent a lot of time.

To solve this type of problem we can make an online platform where a people can easily find out any product details and also view product review. Here we do not sell any product, we only give product information

.

Summary

Product review is an online platform where a user a see different type of product and their information with details. Suppose a people needed some products for his family like mobile phone, UPS, by-cycle, water-pump etc. but he does not understand which product is best. So he tries to search online like daraz.com, but he finds some product details. He also needs more product details. So, he tries to search another online platform like chaldal.com or evaly.com. After searching four or five times, he finds all product details and he understands which product is best. But he was not satisfied because he had spent a lot of time.

To solve this type of problem we can make an online platform where a people can easily find out any product details and also view product review. Here we do not sell any product, we only give product information

TABLE OF CONTENTS

CONTENTS	PAGE
Approval	ii
Declaration	iii
Acknowledgement	iv
Abstract	v
CHAPTER	
CHAPTER 1: INTRODUCTION	
1.1 Project Overview	1
1.2 Project Purpose	1
1.2.1 Background	1
1.2.2 Benefits	3
1.2.3 Goals	3
1.3 Stakeholders	3
1.4 Project Schedule	4
1.4.1 Gantt Chart	4
1.4.2 Milestone	5
CHAPTER 2: Software Requirement Specification	6
2.1 Function Requirement	6
2.2 Data Requirement	7
2.3 Performance Requirement	7
2.4 Dependability Requirement	9
2.5 Maintainability Requirement	10
2.6 Security Requirement	10
2.7 Usability and Human	11
CHAPTER 3: SCOPE OF THE STUDY	12
3.1 Use case Diagram	12
3.2 Use case Description	13
3.3 Activity Diagram	17

©Daffodil International University

3.4 System Sequence Diagram 24

CHAPTER 4: System Design Specification 32

4.1 Sequence Diagram 32

4.2 Entity Relationship Diagram 38

CHAPTER 5: System Testing 40

5.1 Testing Feature 40

5.2 Testing Strategies 40

Figure's List

FIGURES	PAGE NO
Figure 1.1: Gantt Chart	4
Figure 1.2: Milestone	5
Figure 3.1: Use Case	12
Figure 3.2: Activity Diagram for Login	17
Figure 3.3: Activity Diagram for User	18
Figure 3.4: Activity Diagram for Admin	19
Figure 3.5: Activity Diagram for Submit Review	20
Figure 3.6: Activity Diagram for Delete User Account	21
Figure 3.7: Activity Diagram for Add Product	22
Figure 3.8: Activity Diagram for Search Product	23
Figure 3.9: SSD for Registration	24
Figure 3.10: SSD for Login	25
Figure 3.11: SSD for Give Review	26
Figure 3.12: SSD for Give Rate	27
Figure 3.13: SSD for Update Profile	28
Figure 3.14: SSD for Delete Account	29
Figure 3.15: SSD for Mange User	30
Figure 3.16: SSD for Manage Product	31
Figure 4.1: Sequence Diagram for Give Review	31
Figure 4.2: Sequence Diagram for Rate	33
Figure 4.3: Sequence Diagram for Update Profile	34
Figure 4.4: Sequence Diagram for Delete Account	35
Figure 4.5: Sequence Diagram for Manage User	36
Figure 4.6: Sequence Diagram for Manage Product	37
Figure 4.7: Entity Relationship Diagram	38
Figure 5.1: Testing Schedule	42

LIST OF TABLES

TABLE	PAGE NO
Table 1: Function Requirements-01	6
Table 2: Function Requirements-02	6
Table 3: Function Requirements-03	6
Table 4: Function Requirements-04	6
Table 5: Function Requirements-05	7
Table 6: Performance Requirements-01	7
Table 7: Performance Requirements-02	7
Table 8: Performance Requirements-03	9
Table 9: Dependability Requirements-01	9
Table 10: Dependability Requirements-02	9
Table 11: Maintenance Supportability-01	10
Table 12: Security Requirement-01	10
Table 13: Security Requirement-02	11
Table 14: Use Case-01	13
Table 15: Use Case-02	14
Table 16: Use Case-03	15
Table 17: Use Case-04	16

©Daffodil International University

Chapter 1

Introduction

Product Review is intended to find a product with easy way. This system allows a user to review a product but he/she needs to login first. If a user didn't registration before, then he/she need to registration, before login. User can login with Google/Facebook account directly. In the home page, people view a product list that is most popular. The system has a search box where people can search product that he like and view the product details. Users also view product details and review without login. This system will take the rating from the user and calculate it. The average rating will show a user. A people can compare a product to another product to justify best product.

1.1 Project Overview

A huge number of users want to find a product without losing a lot of time. Our online platform helps to these types of people. Suppose a user likes a product from our platform but at the moment he does not have the money to buy the product. In this case he/she can add this product on favorite list with the help of our platform. The next time when he has money, he can easily find this product from the favorites list. This website shows that a product can be priced differently in different online markets. So a user can find a product at a lower price with the help of our online platform.

1.2 Project Purpose

This project is intended to help people to find product in online platform at a low price. So a people no need to visit different website to view product information. He can get all information with positive and negative review with the help of this online platform.

1.2.1 Background

Technical Perspective: All the technologies we have used to create our online platform are:

1. HTML
2. CSS

3. Bootstrap (CSS framework)

4. JavaScript

5. jQuery (JavaScript library)

6. Laravel (PHP framework)

7. AJAX

8. MySQL (Database)

9. Different type of library like particle js, wow js, animates, jquery ui, Owl Carousel Etc.

Domain Perspective: We have attempted to do something unused like online product review. This sort of framework does not exist in our country currently.

1.2.2 Benefits

By successful completion of this project, users will be able to-

- User can view information of product by some click.
- Admin can complete validation process through this system.
- Users will be able to purchase products at home.
- Admin will be able to manage user reviews.

1.2.3 Goals

The main goals of this project is to-

- Making a Client neighborly and simple interface site.
- Decrease the complexity of find product information in online platform.
- Build online platforms as popular.

1.3 Stakeholders

The main stakeholder's are-

- Developer
- Admin
- User

1.4 Project Schedule

1.4.1 Gantt Chart

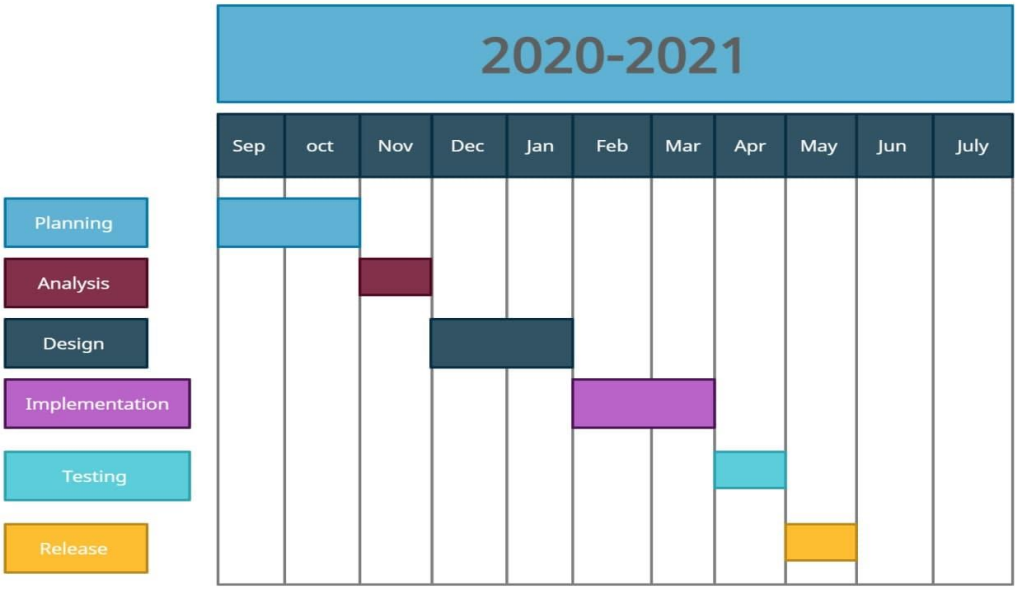


Figure 1.1: Gantt chart for Product Review System

1.4.2 Milestone

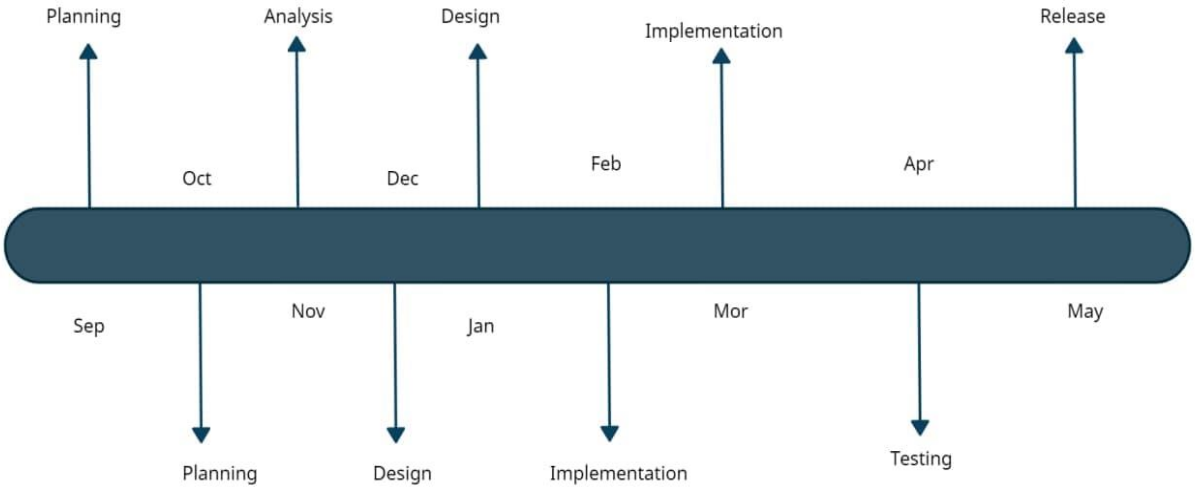


Figure 1.2: Milestone for Product Review System

Chapter 2

Software Requirement Specification

This project is the basis for all of the requirements specifications mentioned in this section.

2.1 Functional Requirements

FR-01	**User Registration**
Description	Without registration, a user can only be able to view product information and review but he/she can't attempt to give the review.
Stakeholders	User

FR-02	**Apply Review**
Description	Only Registration users can apply for the Review. This module will help the user to apply for Rated or Review
Stakeholders	User

FR-03	**Admin Login**
Description	Without Login Admin in this system, he/she will only be able to see the website. To manage the user application the Admin must need to Login in this system. This module will help the Admin to Login to this system.
Stakeholders	Admin

FR-04	**Manage User Review**
Description	An admin can manage a user and their review by admin panel.
Stakeholders	Admin

FR-05	Contact With Admin
Description	If a user encounters a problem, they can contact the admin by signing in
Stakeholders	User, Admin

2.2 Data Requirements

2.3 Performance Requirements

2.3.1 Speed and Latency Requirements

This system required a fair speed especially when a user want to review a product and admin can manage the user review.

PR-01	Page Refresh Rate
Description	The page will appear in a moment when the user and admin are browsing this framework. It also depends on the internet connection of the administrator and the customer.
Stakeholders	User's, Admin

2.3.2 Accuracy Requirements

There are no basic standards for accuracy.

2.3.3 Capacity Requirements

The framework can handle all of the knowledge that users and administrators have.

PR-02	The framework will initially contain all of the registration admin and user information.
Description	The data of registered admin and users will be saved in a database.

Stakeholders	User, Admin

PR-03	All review data will be stored in the system.
Description	The review information will be stored in a database.
Stakeholders	User

2.4 Dependability Requirements

2.4.1 Reliability Requirements

This can be an online item survey related project that's why it'll be exceptionally delicate for admin and users. The most objective of our venture, it diminishes the complexity of discover item data. In this way we are going be able to realize the unwavering quality of clients

2.4.2 Availability Requirements

This project necessitates more availability.

DR-01	Must be accessible the framework at 24x7
Description	• Must be accessible the system at 24 hours in a day. • • Must be upgraded the system regularly.
Stakeholders	user, admin, System Developer

2.4.3 Robustness and Fault Tolerance Requirements

DR-02	The system is in charge of access control.
Description	Multiple users can have access to this device at the same time. Multiple users can access the device at the same time. The machine crushes at a rate of about 25-33 percent.
Stakeholders	No

2.4.4 Safety Critical Requirements

There are no safety-critical specifications in place.

2.5 Maintainability and Supportability

2.5.1 Maintenance Requirements

MS-01	This site can be viewed at any time by the system.
Description	Users can access the site and give review at any time. Admin can manage the user review and complete validation process through this system.
Stakeholders	Admin, user's

2.5.2 Supportability Requirements

There are no clear standards for supportability.

2.5.3 Adaptability Requirements

There are no clear criteria for adaptability.

2.6 Security Requirements

There are some security specifications for this device. Like-

- Username/Password
- Validation
- Mobile number
- Authentication
- Session

2.6.1 Access Requirements

The framework provides a validation and authentication mechanism to gain access to all modules.

SR-01	The security policy is provided by this framework.
Description	Without register/login admin and user in this system he/she will be not able to review or manage item. This mechanism gives security services.
Stakeholders	Admin, User

2.6.2 Integrity Requirements

To keep data secure, all usernames and passwords are encrypted. The username and password are difficult to decrypt.

2.6.3 Privacy Requirements

There are some privacy features in this framework. Validation and authentication, for example. All information is saved in a database. Both usernames and passwords are encrypted before being saved. It's difficult to decipher. This framework protects the privacy of users.

SR-02	All information will be kept private.
Description	All information is kept private. All data is encrypted and stored in a database. It is difficult to decode.
Stakeholders	Admin, user

2.7 Usability and Human Integrity Requirements

2.7.1 Ease of Use Requirements

This method is very easy to use and comprehend.

2.7.2 Understand-ability and Politeness Requirements

This method is simple to comprehend and implement.

2.7.3 Accessibility Requirements

There are no get to necessities adjacent to those that have been laid out within the below:

AR-1: Log in as a User

AR-2: Log in as a Admin

AR-3: Log out as a User

AR-4: Log out as a Admin

Chapter 3

Scope of the Study

3.1 use Case Diagram

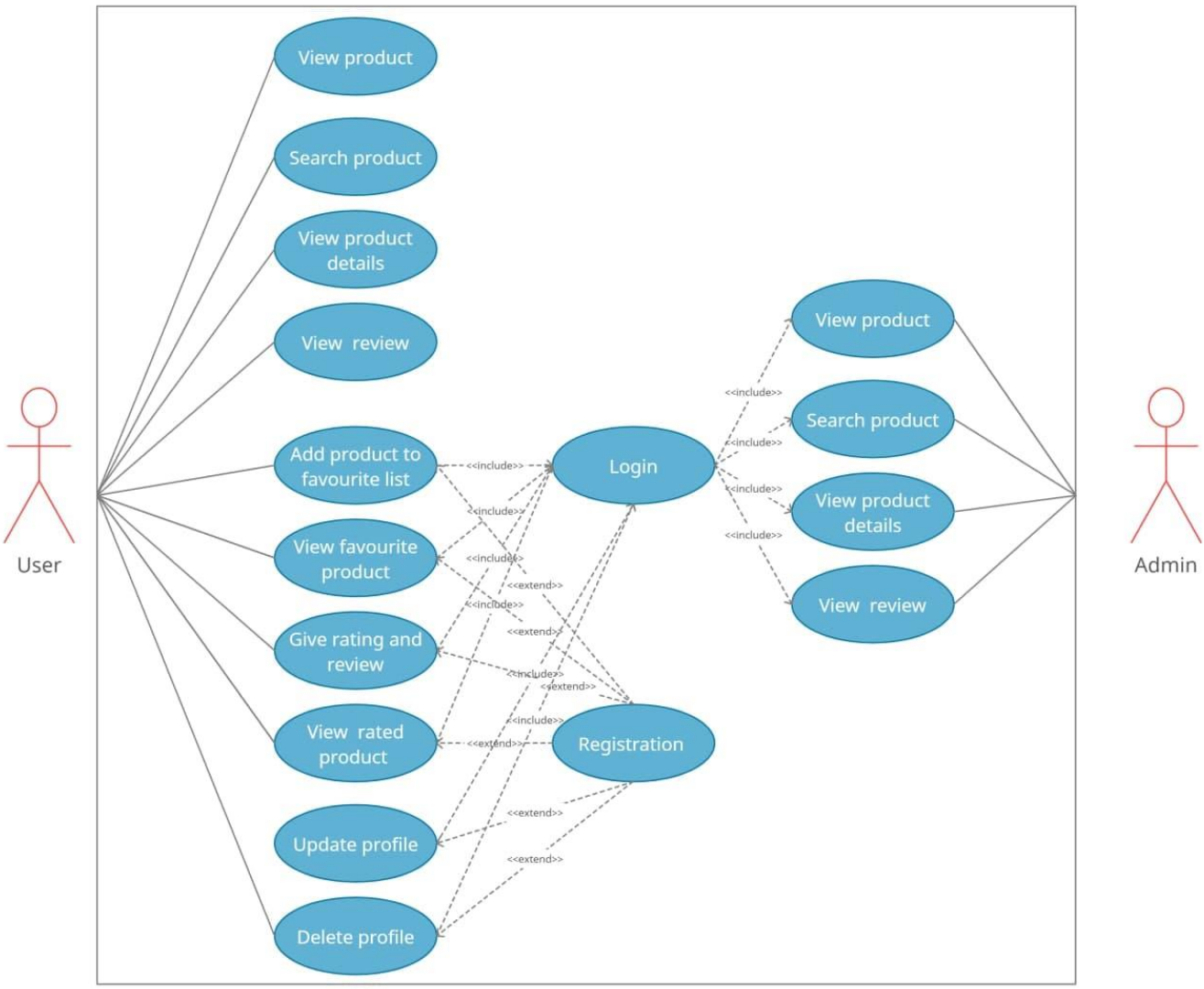


Figure 3.1: Use case Diagram for Product Review System

3.2 Use case Description

Use Case-01	Registration	
Goal	user's Registration is important for accessing the site for apply Product rating. Admin registration isn't important for accessing the site.	
Preconditions	No	
Success End Condition	Registered successfully and access the system.	
Failed End Condition	Can't apply rating into the system.	
Actors	Admin User's	
Trigger	Registration to the system.	
Description	**Step**	**Action**
	1	Push Login Button
	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10	Put I have no account Put first name Put last name Put Username Put email Put phone number Put address Put Password Put confirm password Put gender
	2	Push Register Button
Alternative Flows	N/A	
Quality Requirements	Don't provide the password to others.	

Use Case-02	Login
Goal	User's Login is important for accessing the site for apply Product rating and showing the product. Admin login is important for accessing the site.
Preconditions	Need to Login and put the Email or Username And password.
Success End Condition	Come into the framework and use all of its features.
Failed End Condition	Users are unable to rate or review applicants, and admin are unable to access the applicant list.
Actors	User's ,Admin

Use Case-03	Apply For Review	
Goal	Users Can Apply for Review.	
Preconditions	Need to Login and put the accurate User name and Password.	
Success End Condition	Users can Apply in Rating successfully.	
Actors	Users	
Trigger	Login to the system.	
Description	**Step**	**Action**
	1	Registration As a User's
	2	Push Login Button
	2.1 2.2 2.3 2.4 2.5	Put User name/Email Put Password Push Login Show product Put Review/Rating
	2.6.1	Submit

Use Case-04	View Rating/Review list	
Goal	Admin Can View review list.	
Preconditions	Need to Login and put the accurate admin name and password.	
Success End Condition	Admin can view rating list by product code/name. Admin can view product rating list by product name.	
Actors	Admin	
Trigger	Login to the system.	
Description	1	Login As a Admin
	2	Push Review List Button
	3.1	Put view by product rating
	3.2	Put view by product rating and name
Alternative Flows	N/A	

3.3 Activity Diagram

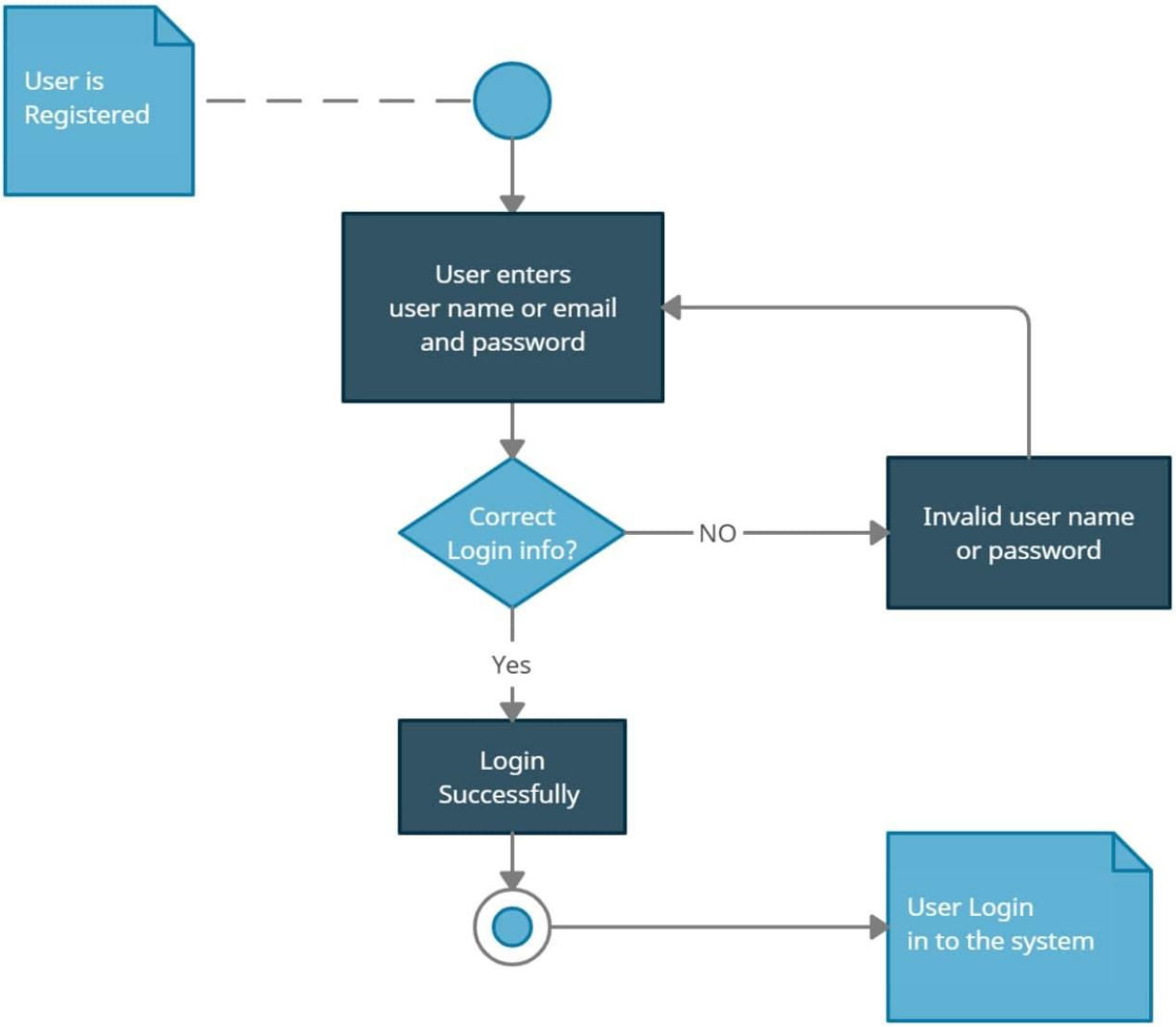


Figure 3.2: Activity diagram for Login

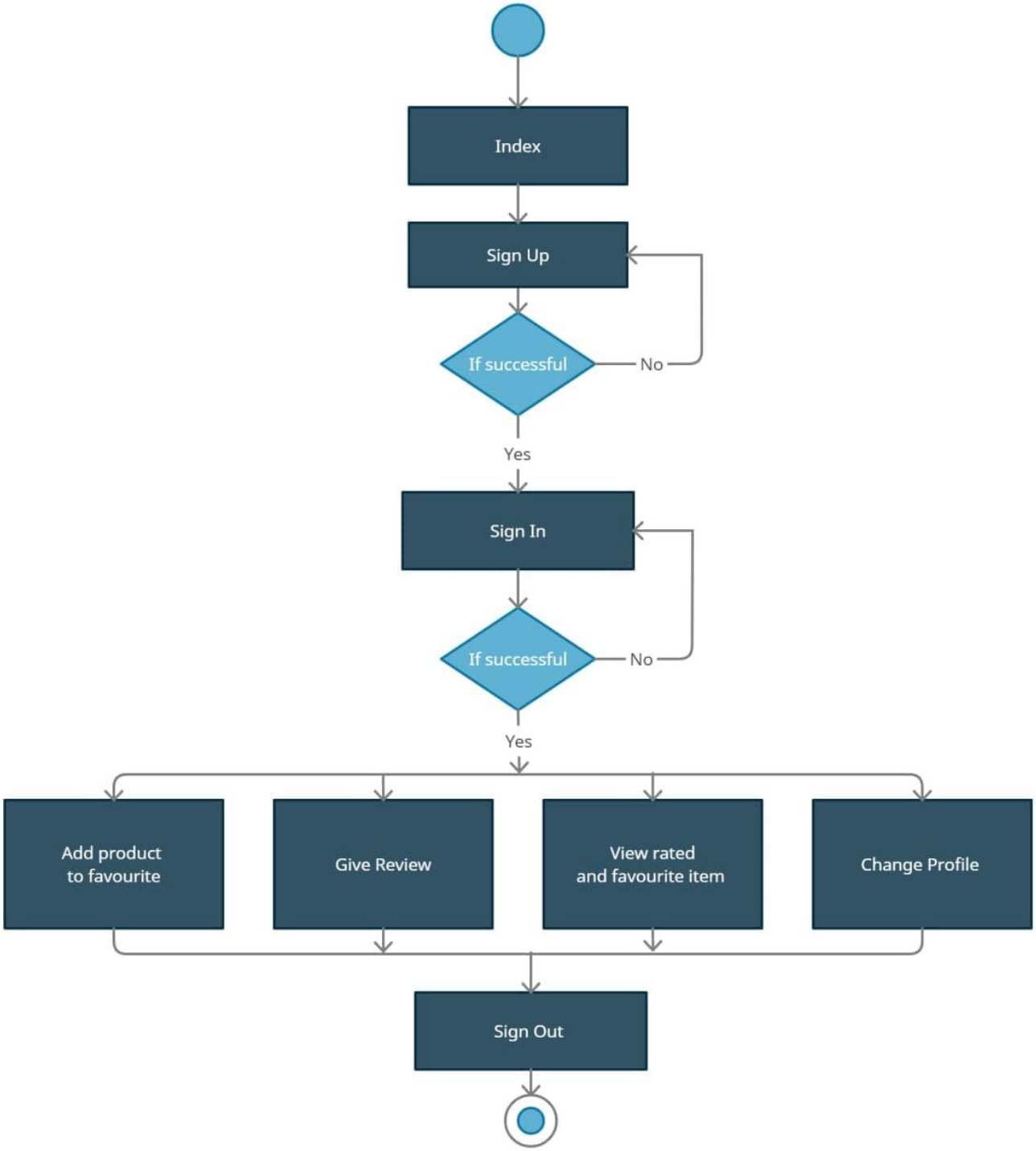


Figure 3.3: Activity diagram for User

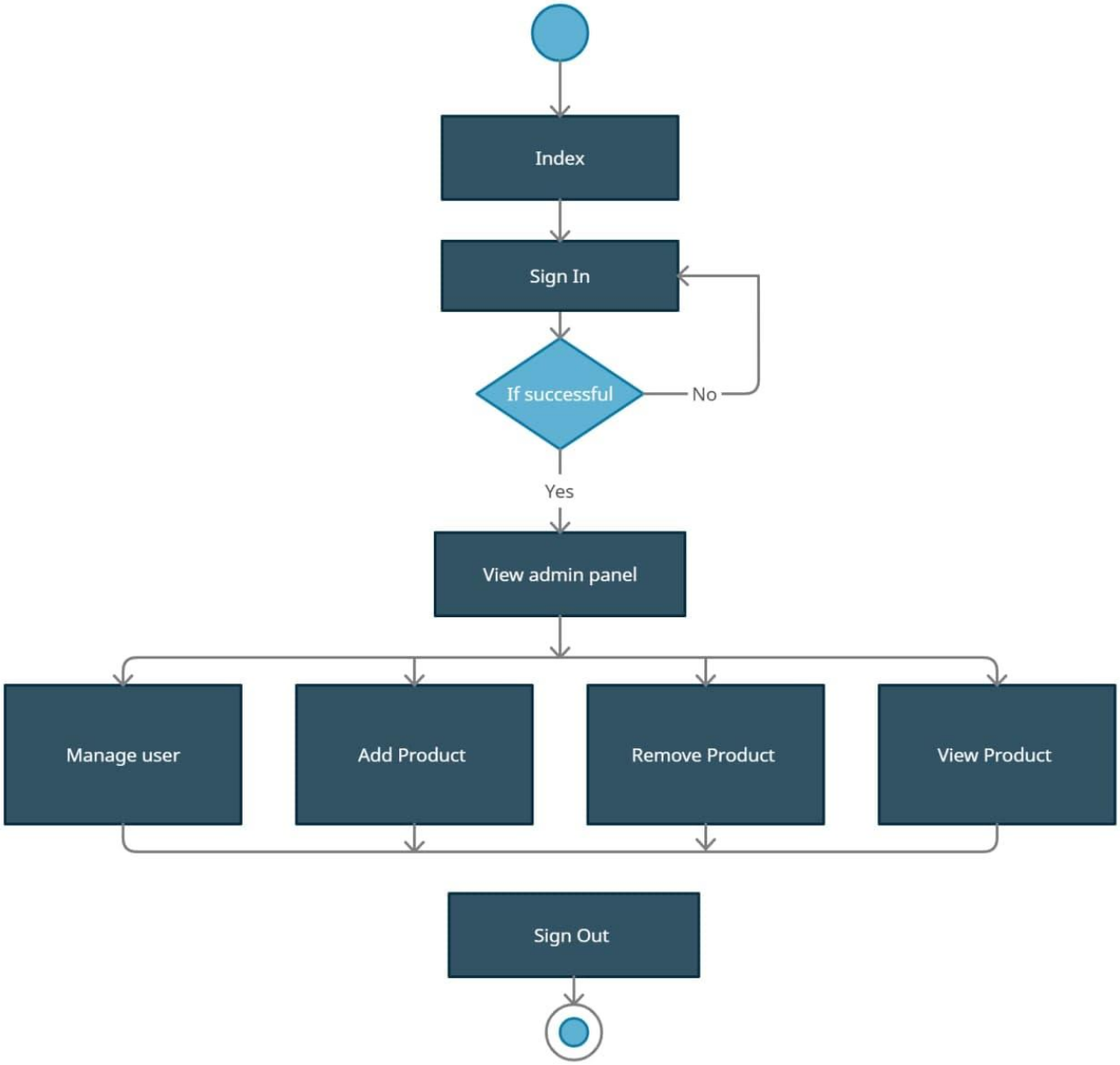


Figure 3.4: Activity diagram for Admin

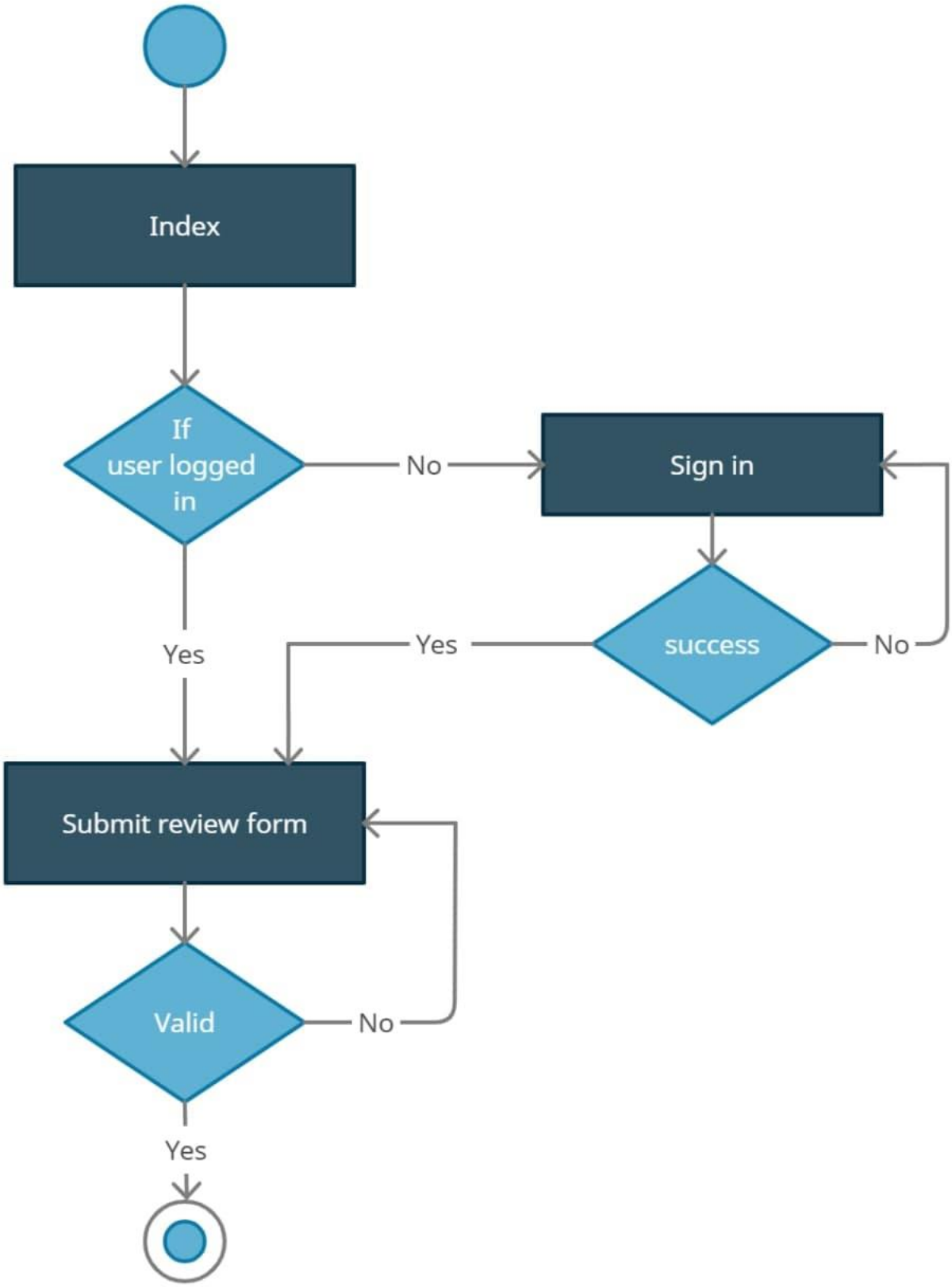


Figure 3.5: Activity diagram for Submit Review

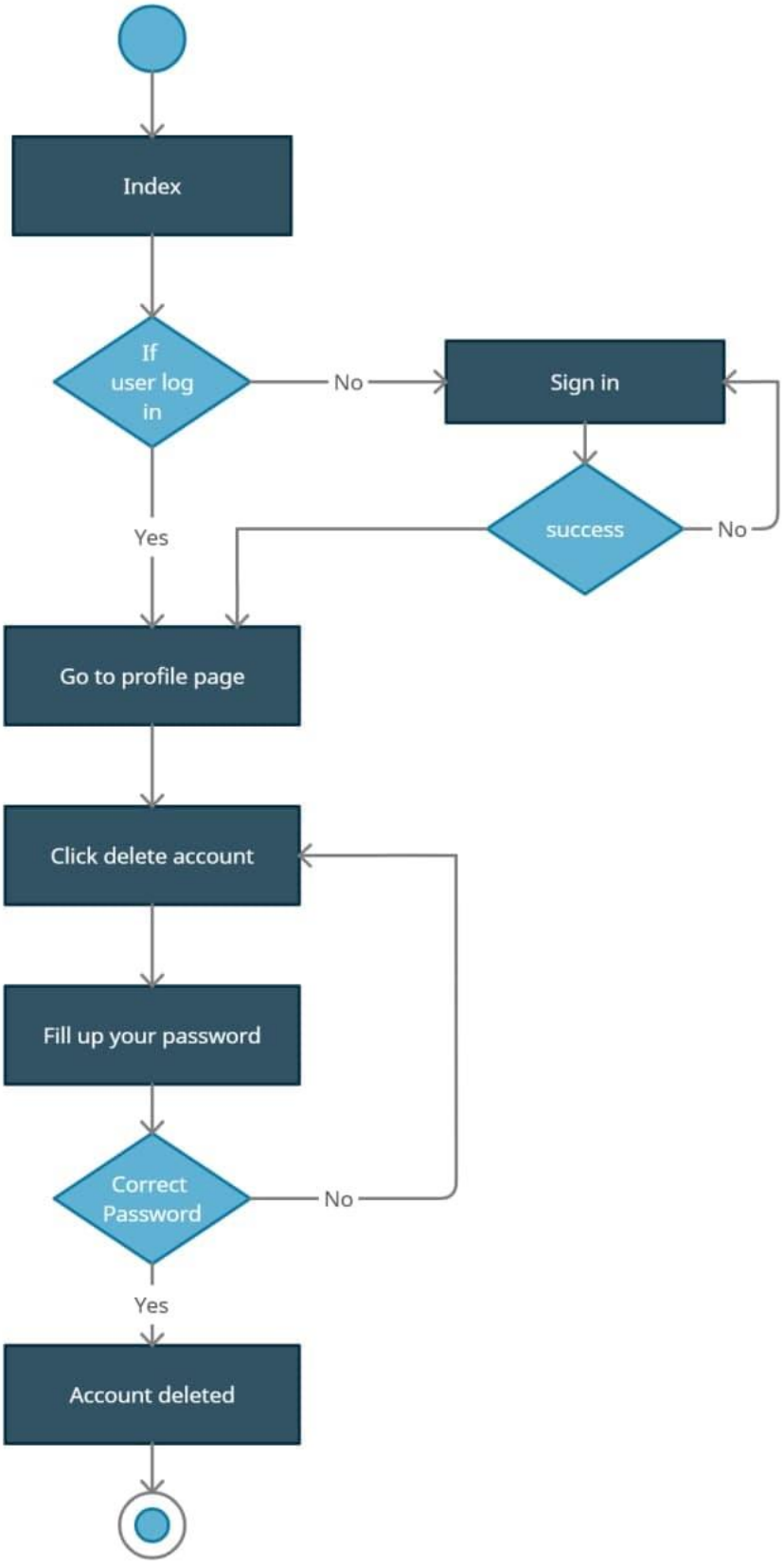


Figure 3.6: Activity diagram for Delete User Account

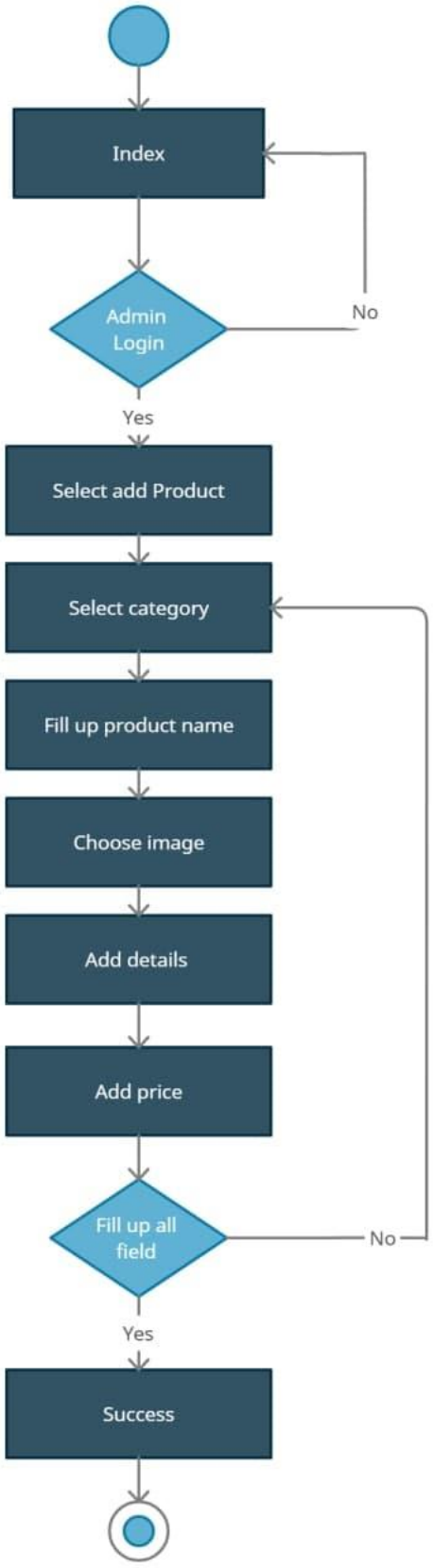


Figure 3.7: Activity diagram for Add Product

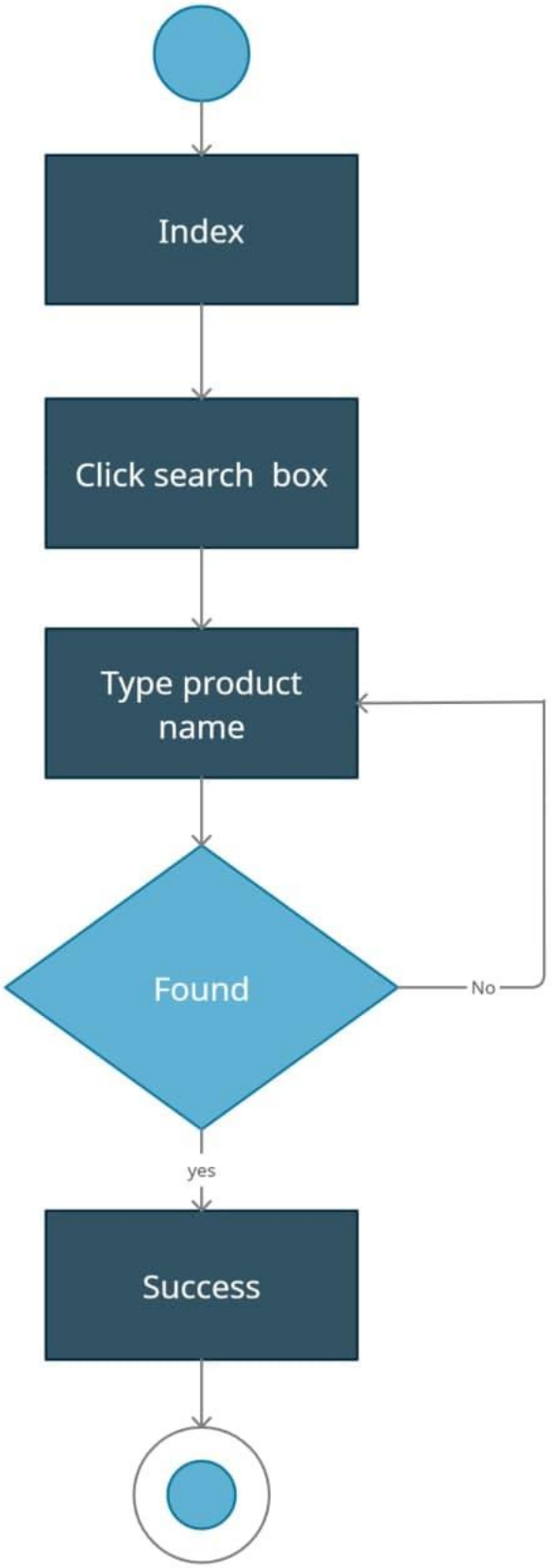


Figure 3.8: Activity diagram for Search Product

3.4 System Sequence Diagram:

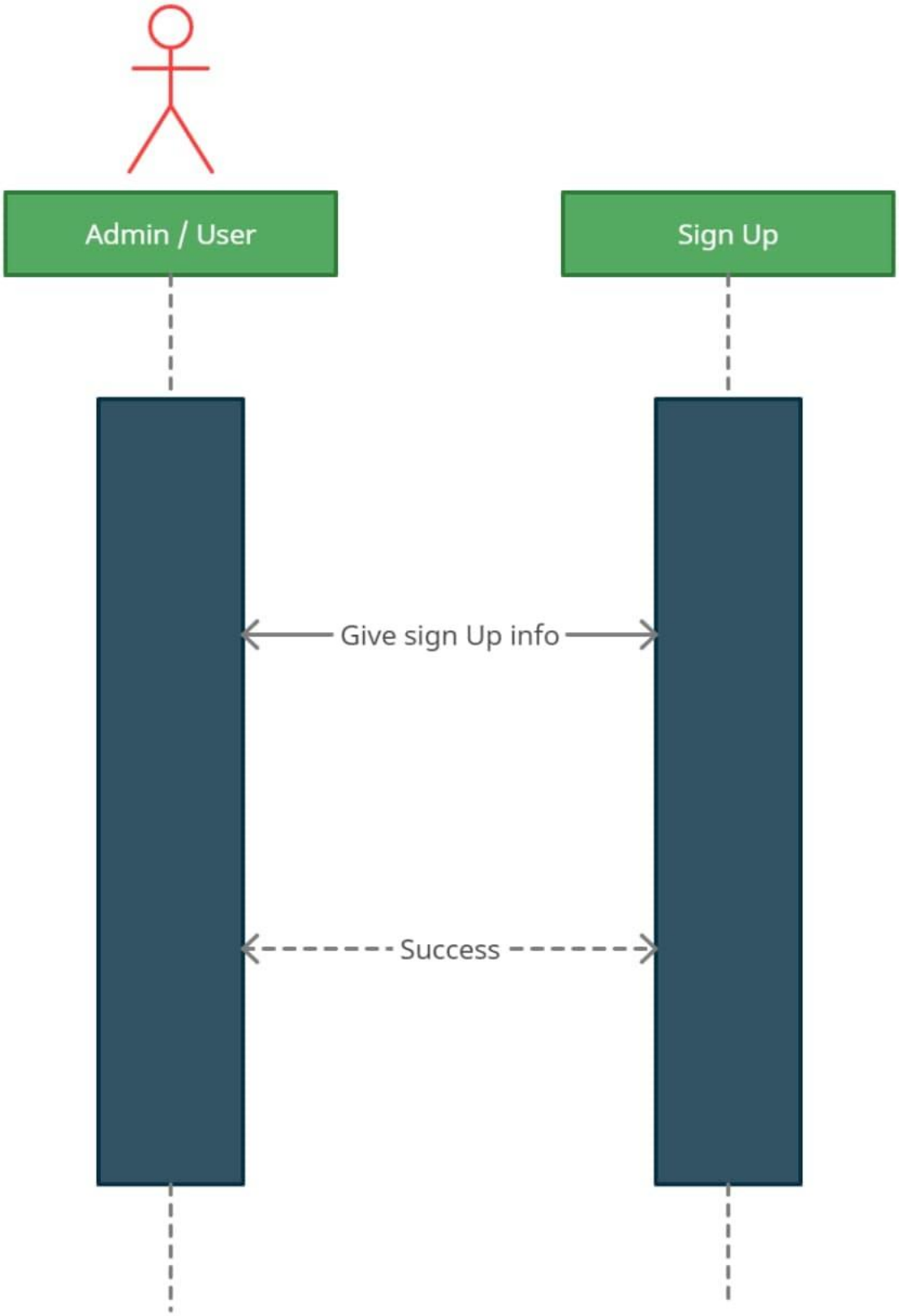


Figure 3.9: System Sequence Diagram for Registration

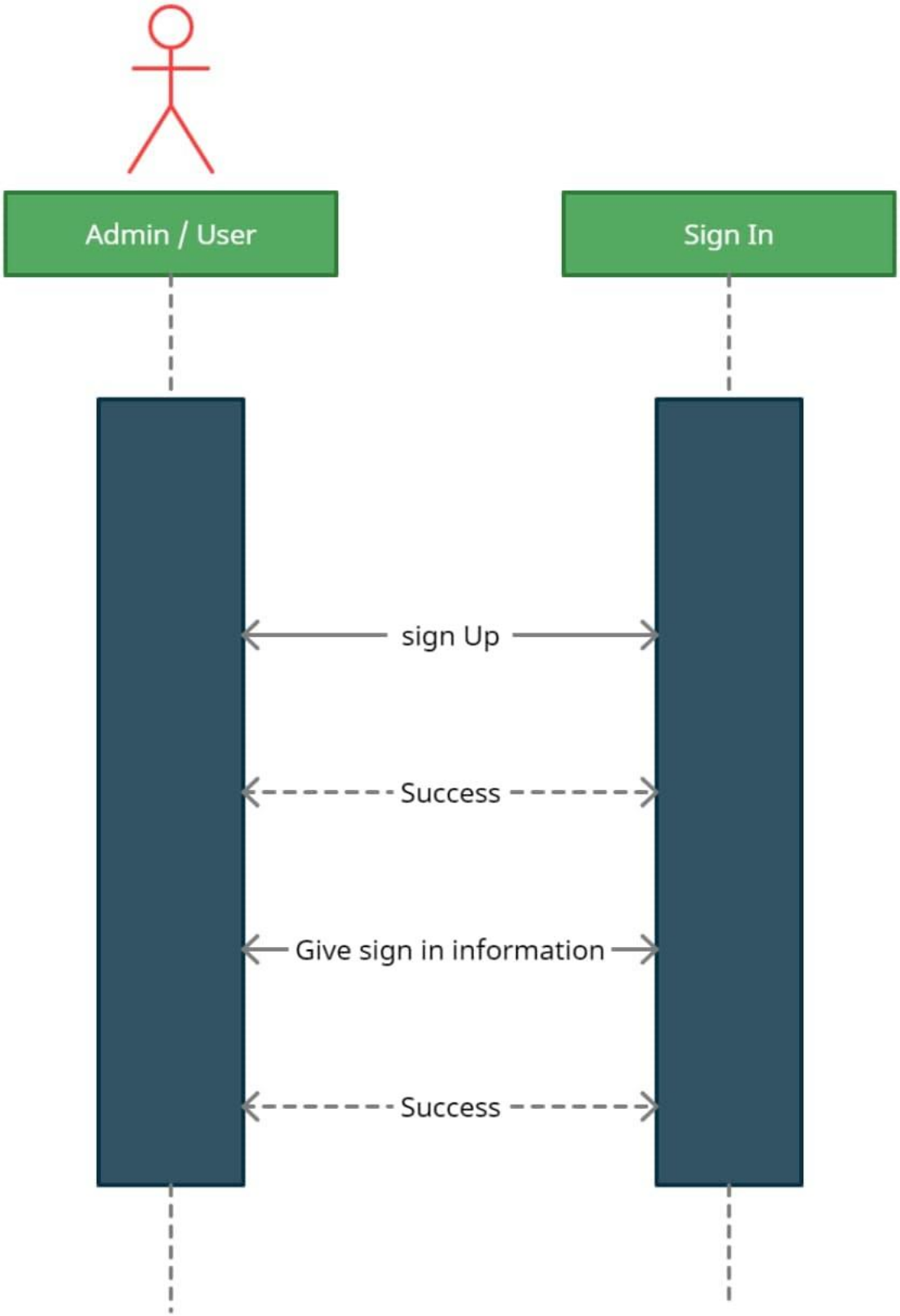


Figure 3.10: System Sequence Diagram for Login

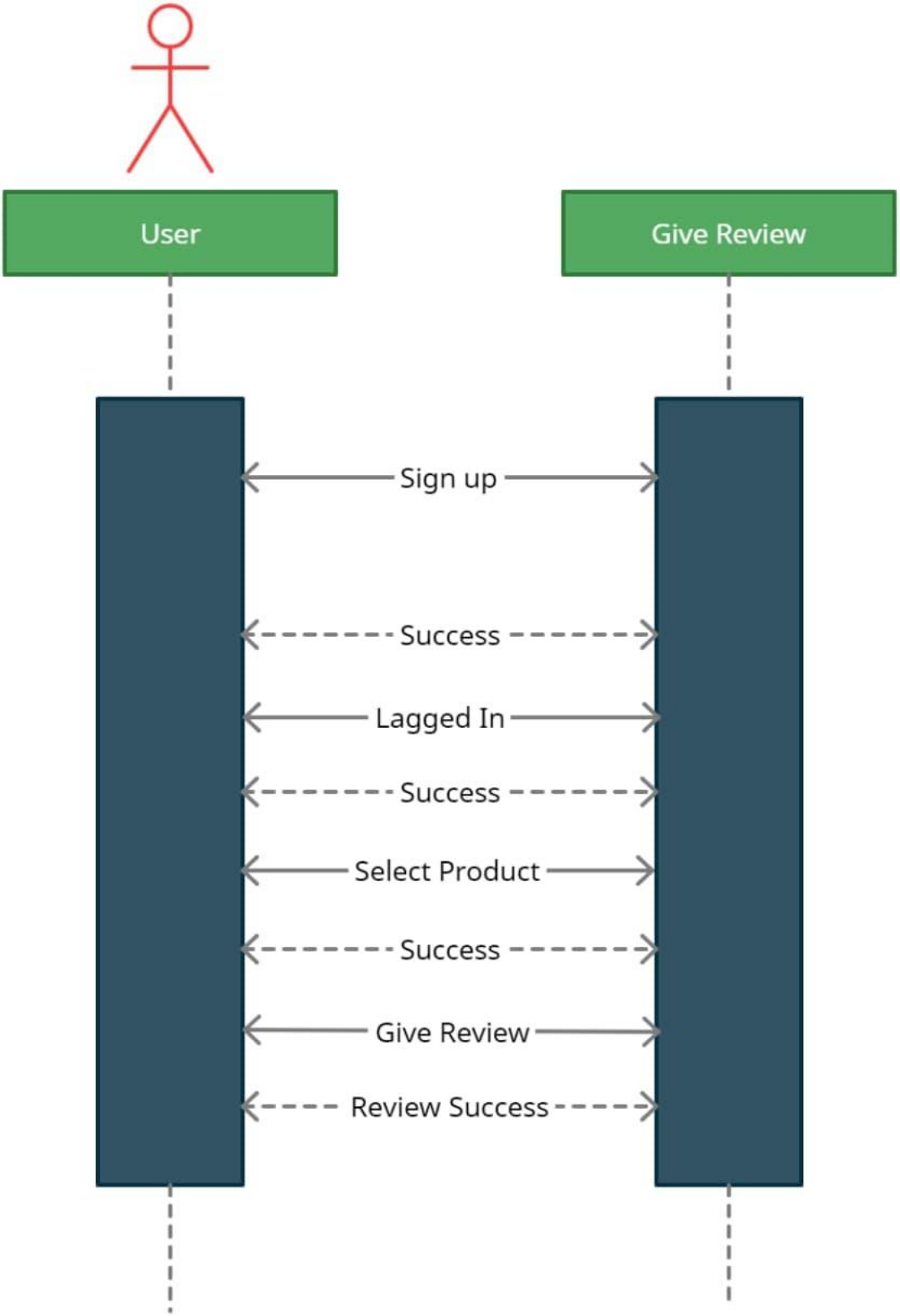


Figure 3.11: System Sequence Diagram for Give Review

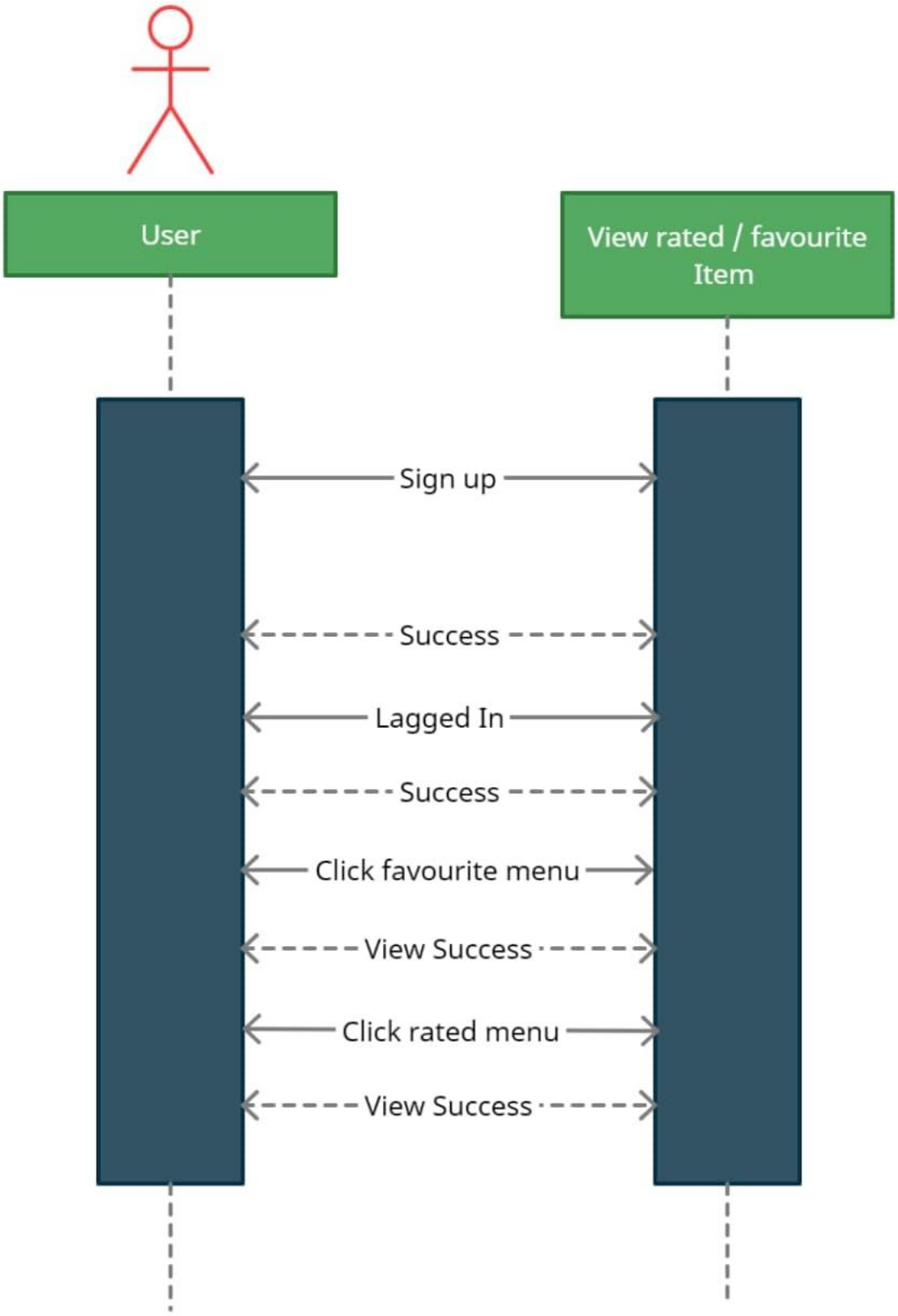


Figure 3.12: System Sequence Diagram for View Rated or Favourite Item

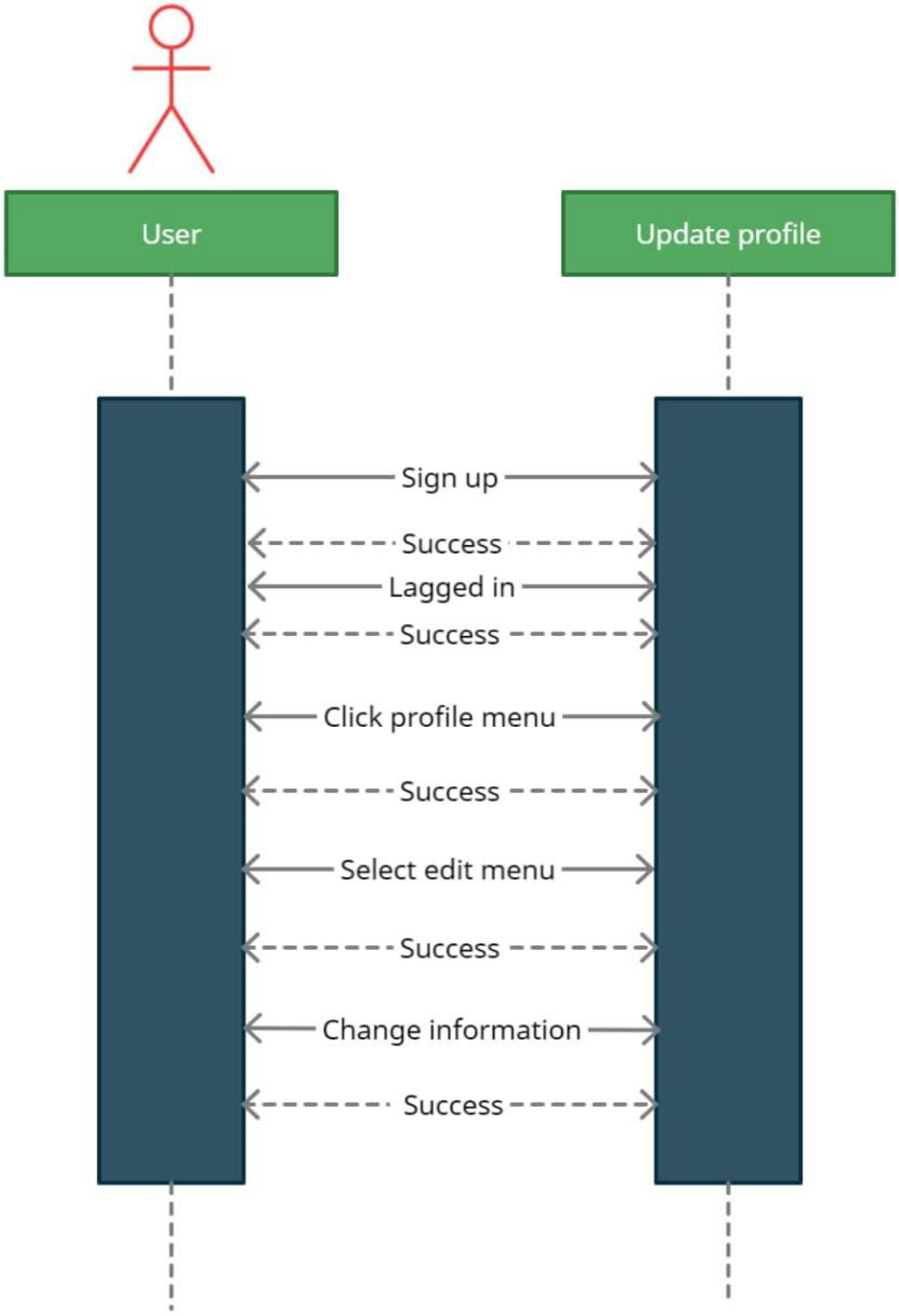


Figure 3.13: System Sequence Diagram for Update Profile

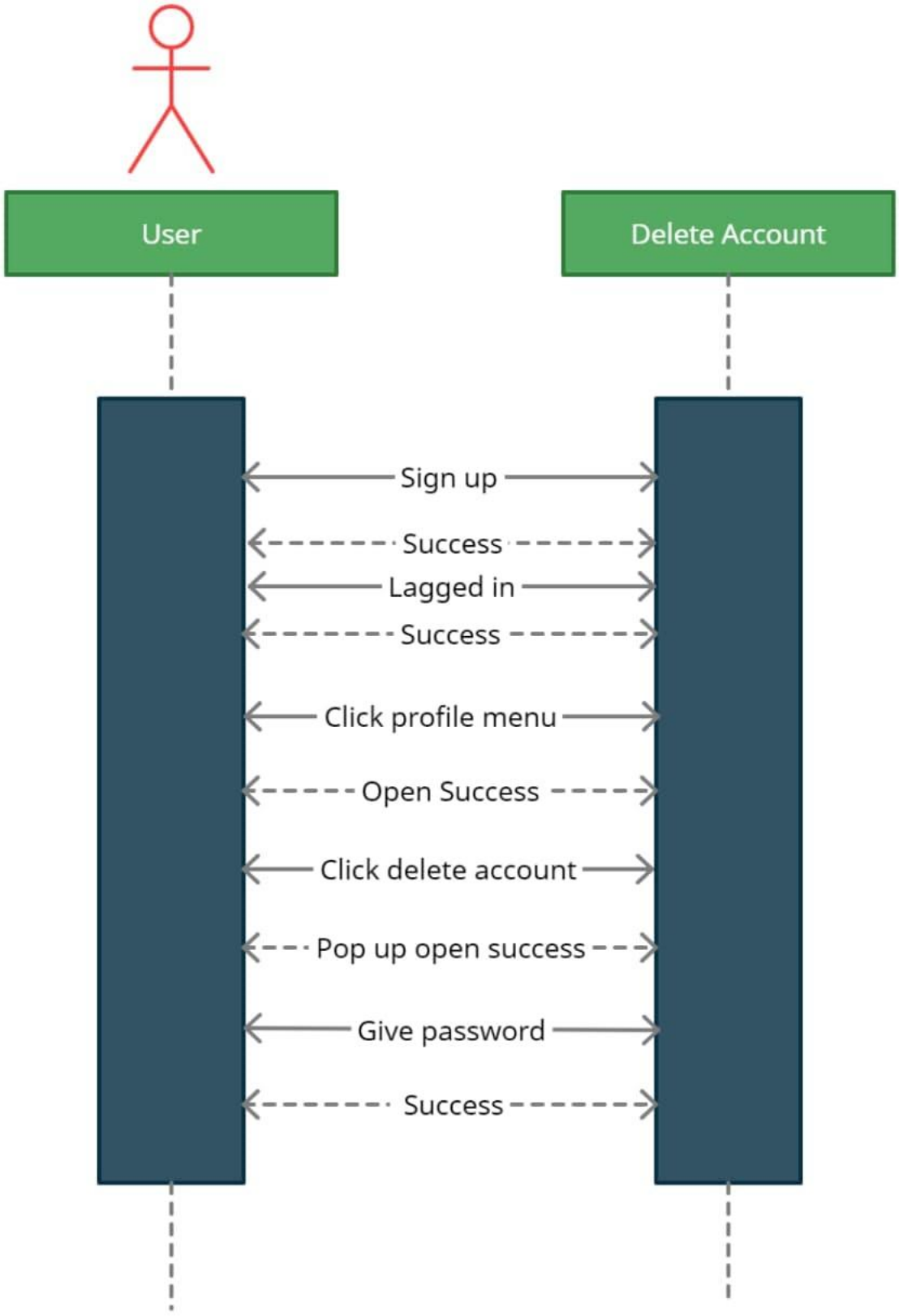


Figure 3.14: System Sequence Diagram for Delete Account

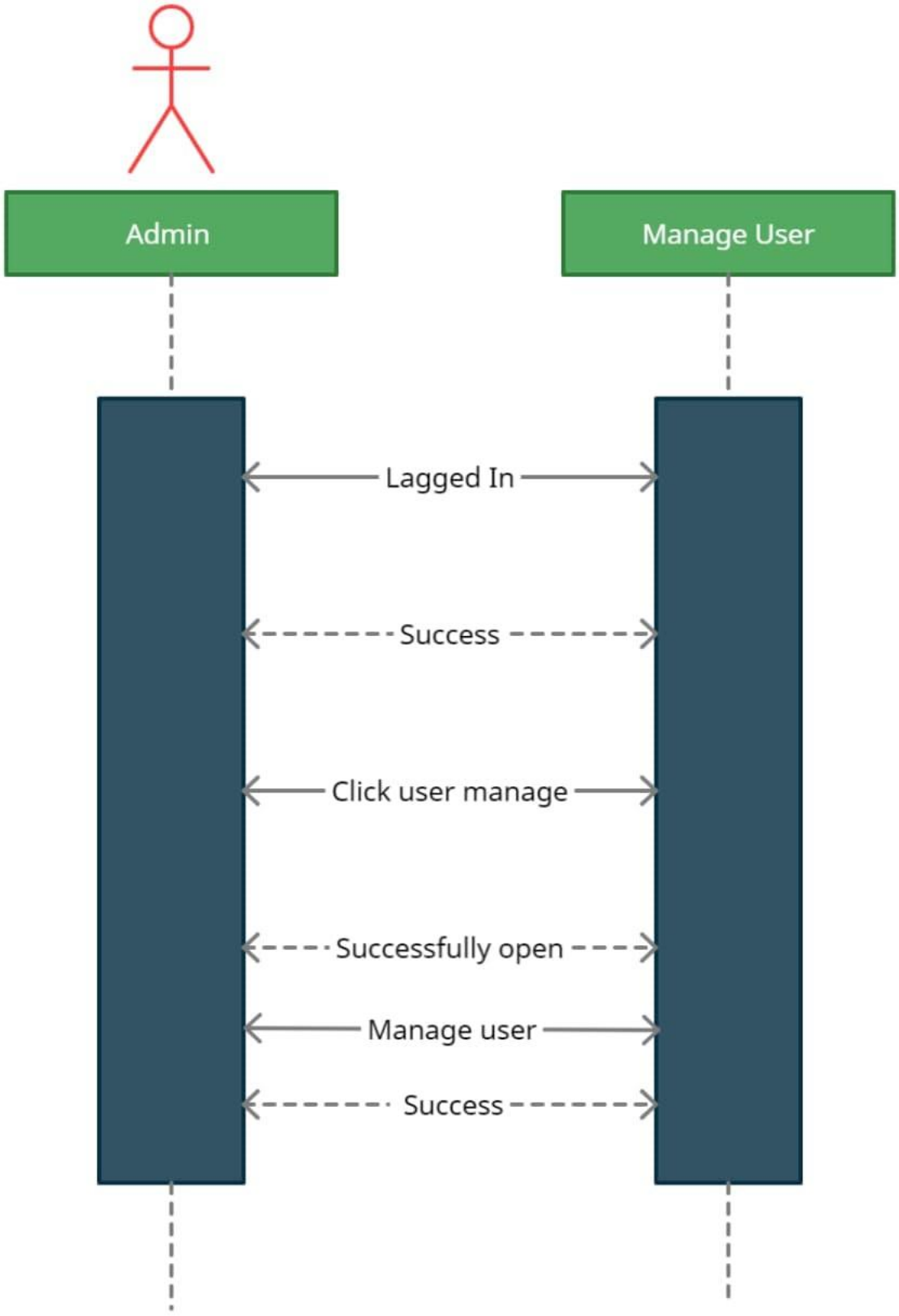


Figure 3.15: System Sequence Diagram for Manage User

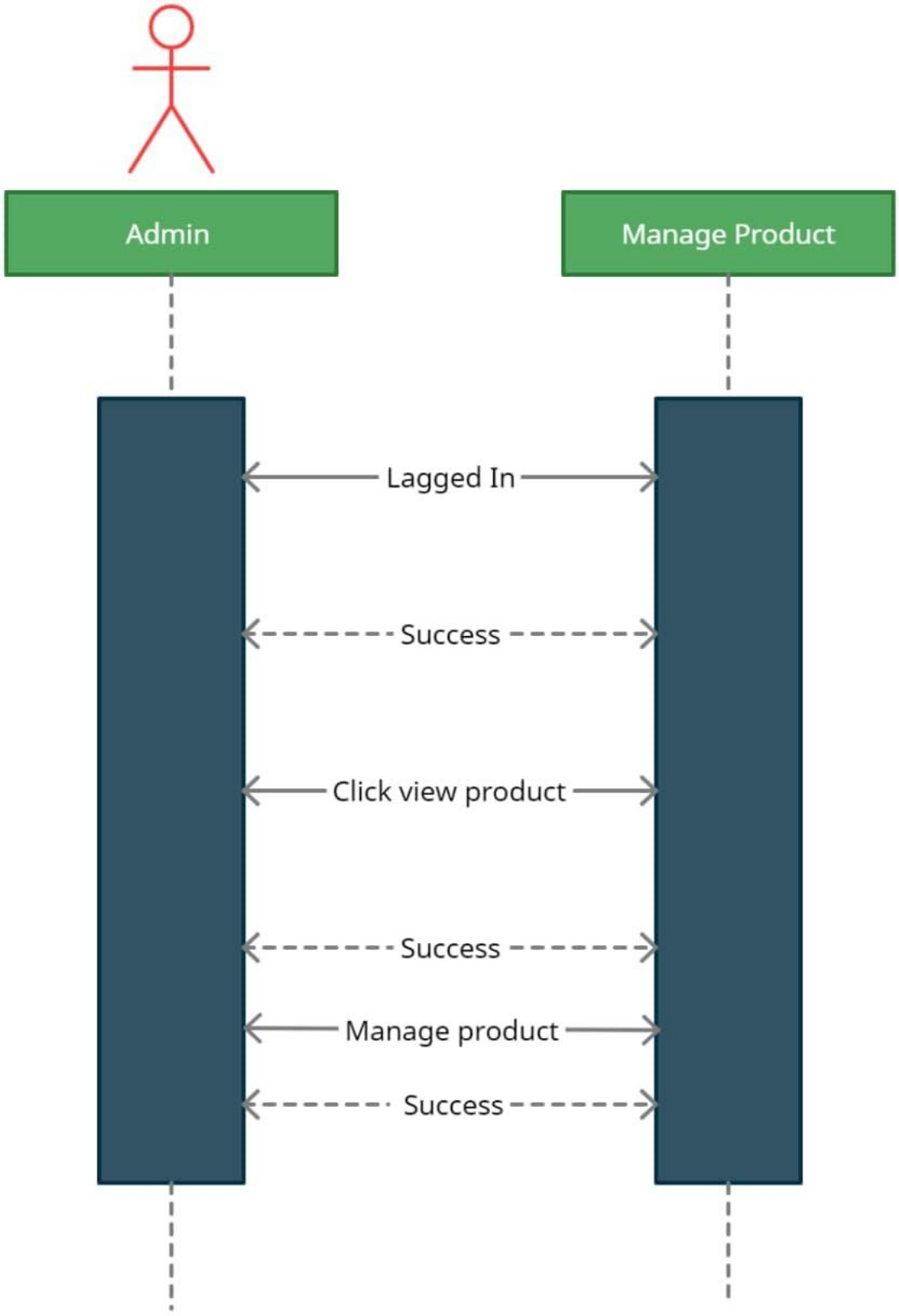


Figure 3.16: System Sequence Diagram for Manage Product

Chapter 4

System Design Specification

4.1 Sequence Diagram:

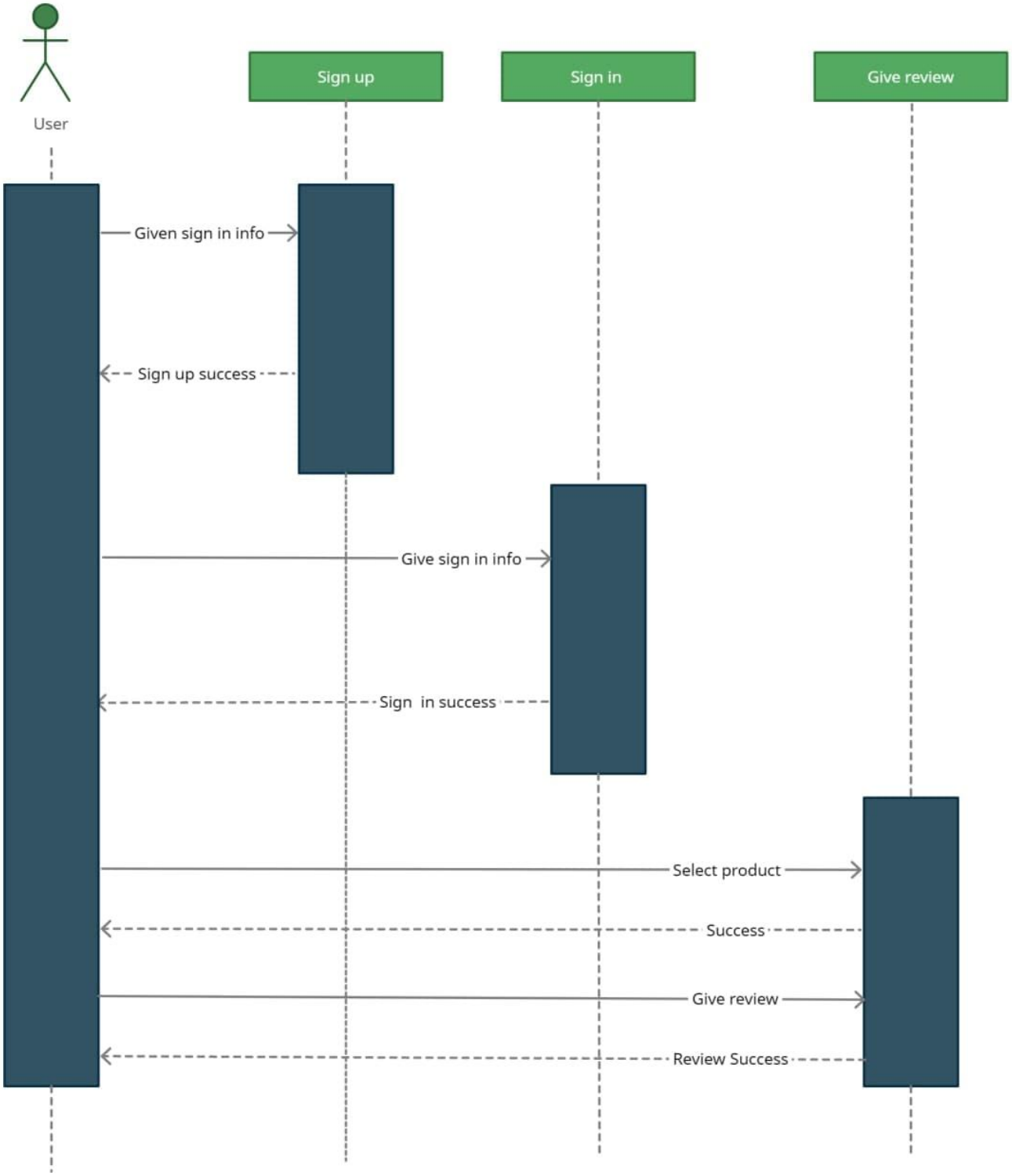


Figure 4.1: Sequence Diagram for Give Review

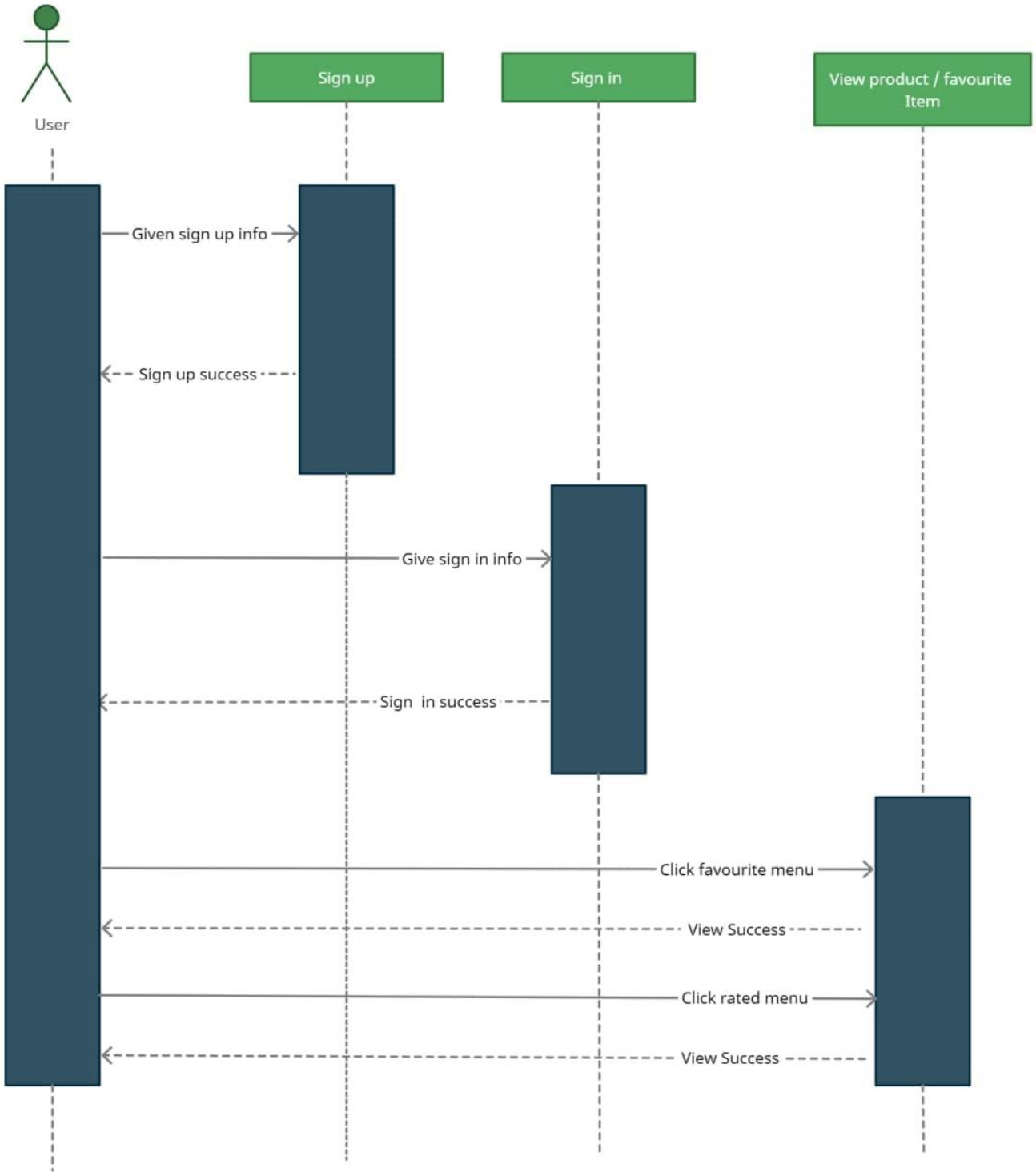


Figure 4.2: Sequence Diagram for View Rated & Favourite Item

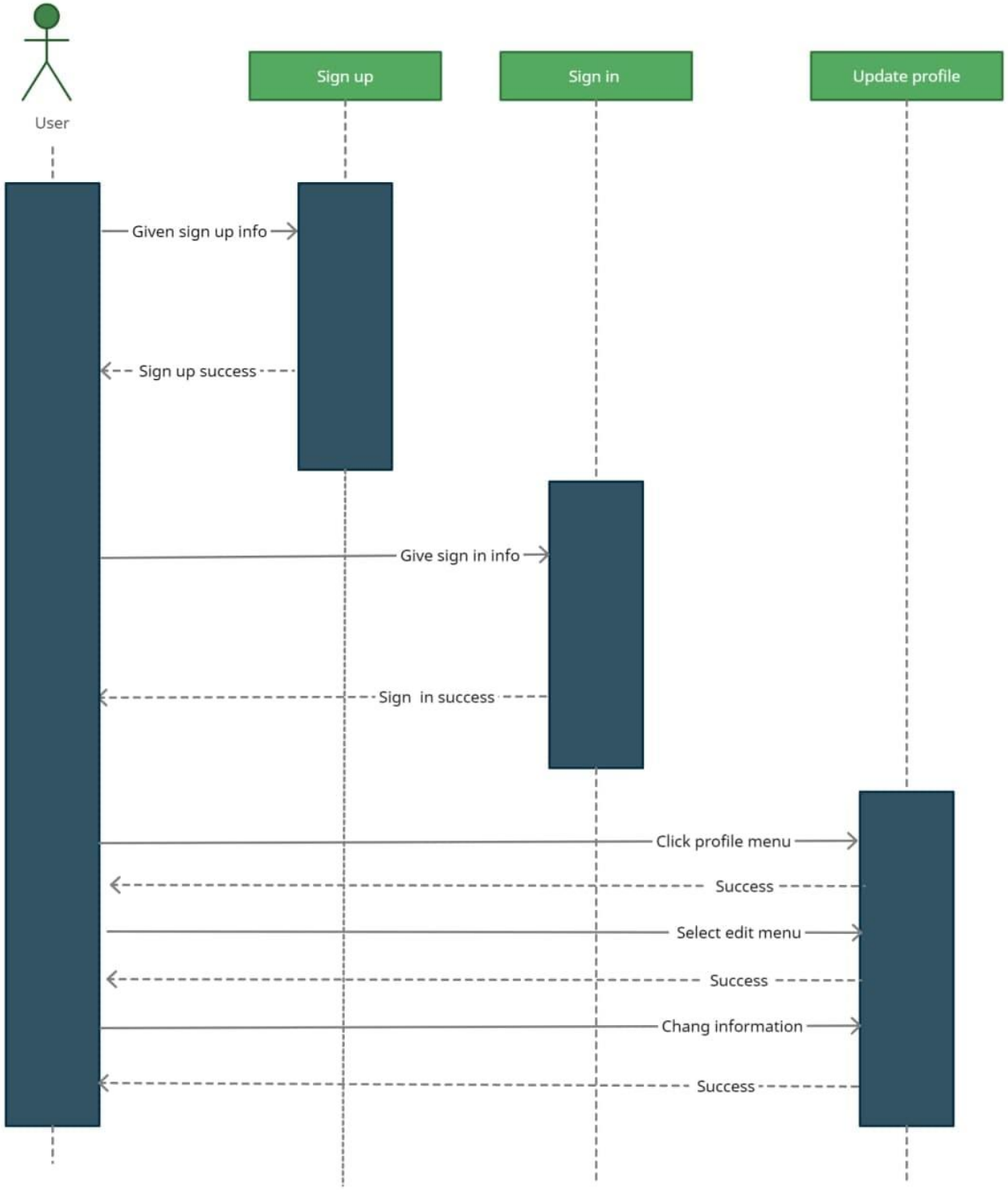


Figure 4.3: Sequence Diagram for Update Profile

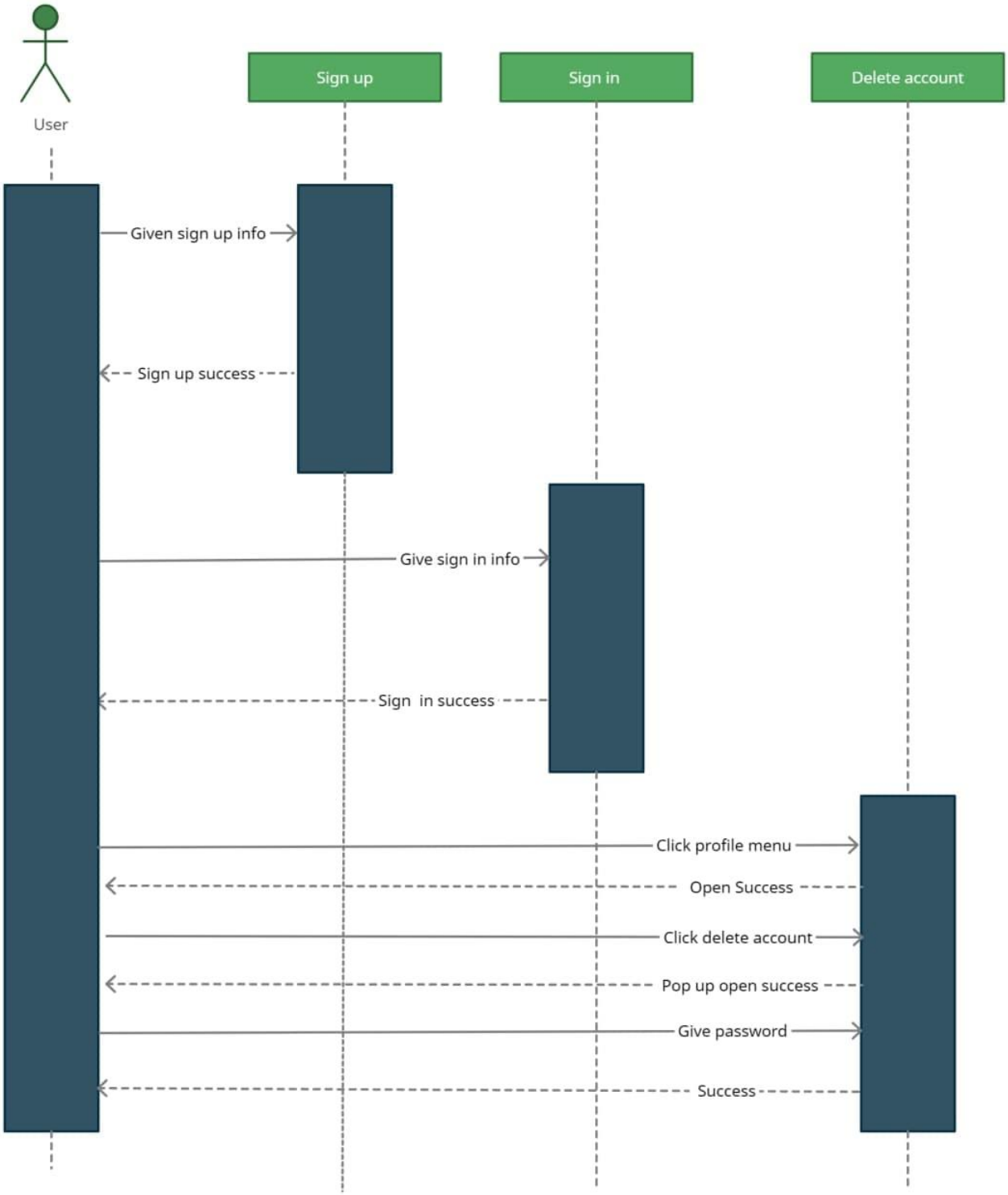


Figure 4.4: Sequence Diagram for Delete Account

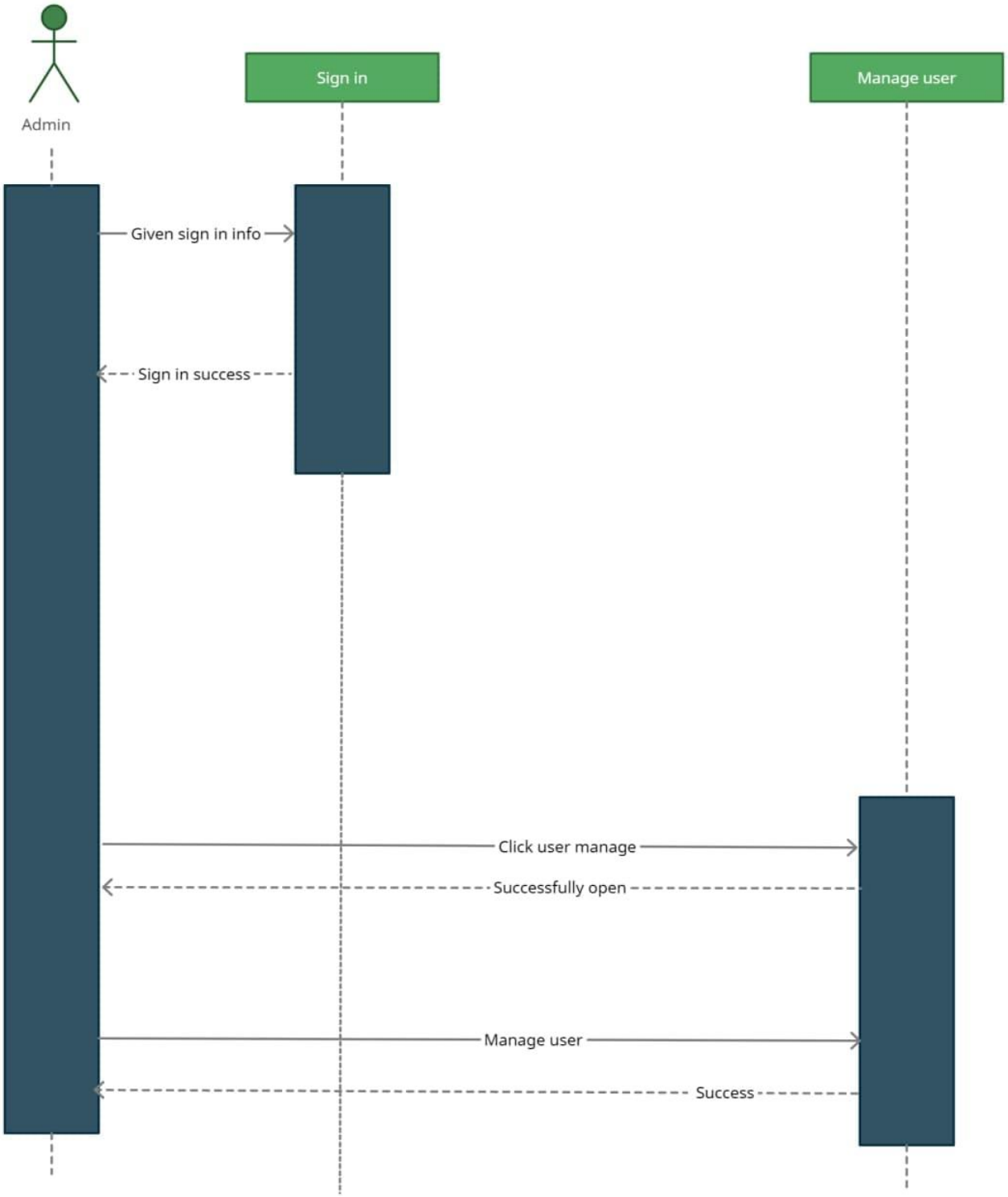


Figure 4.5: Sequence Diagram for Manage User

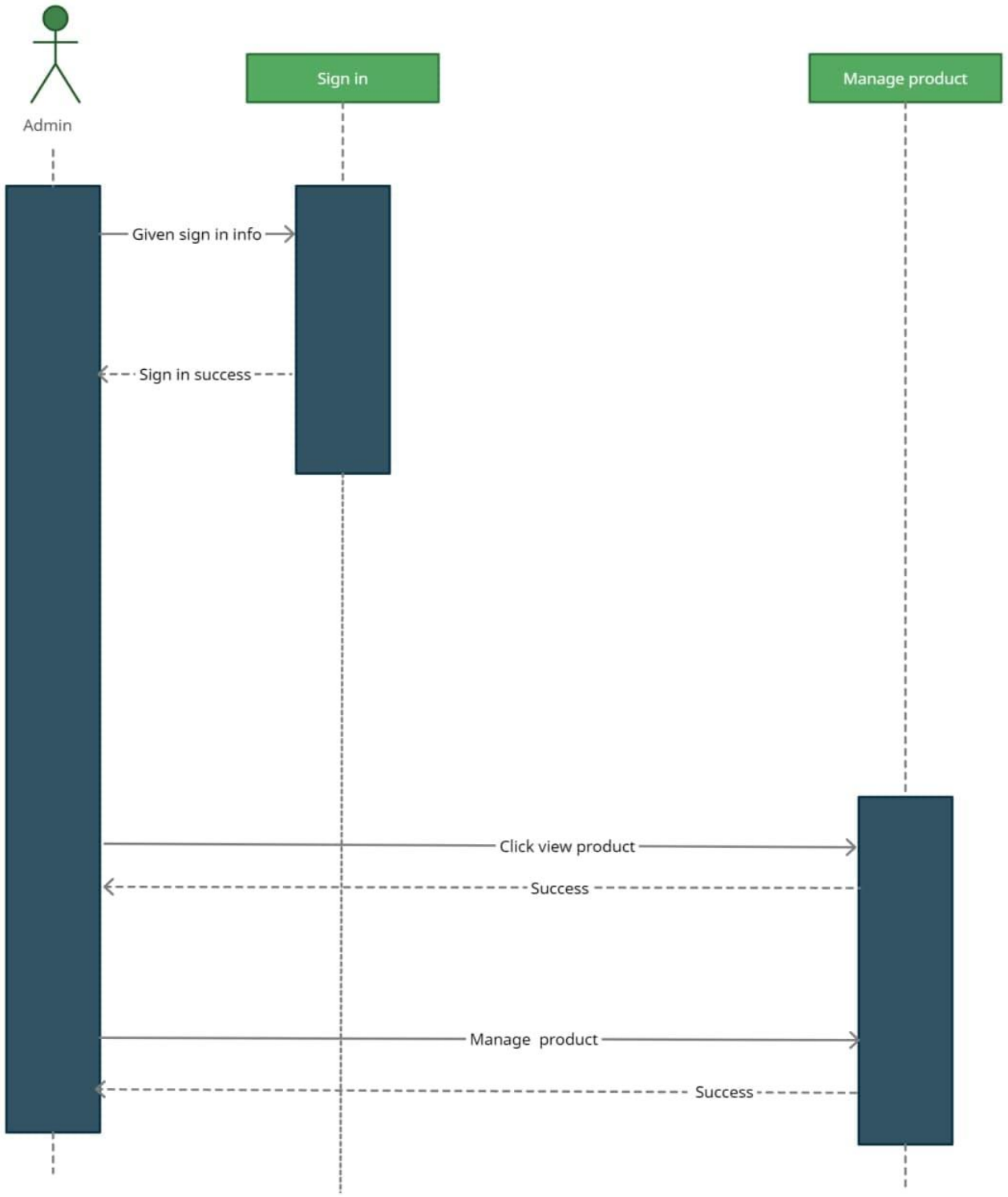


Figure 4.6: Sequence Diagram for Manage Product

4.2 Entity Relationship Diagram:

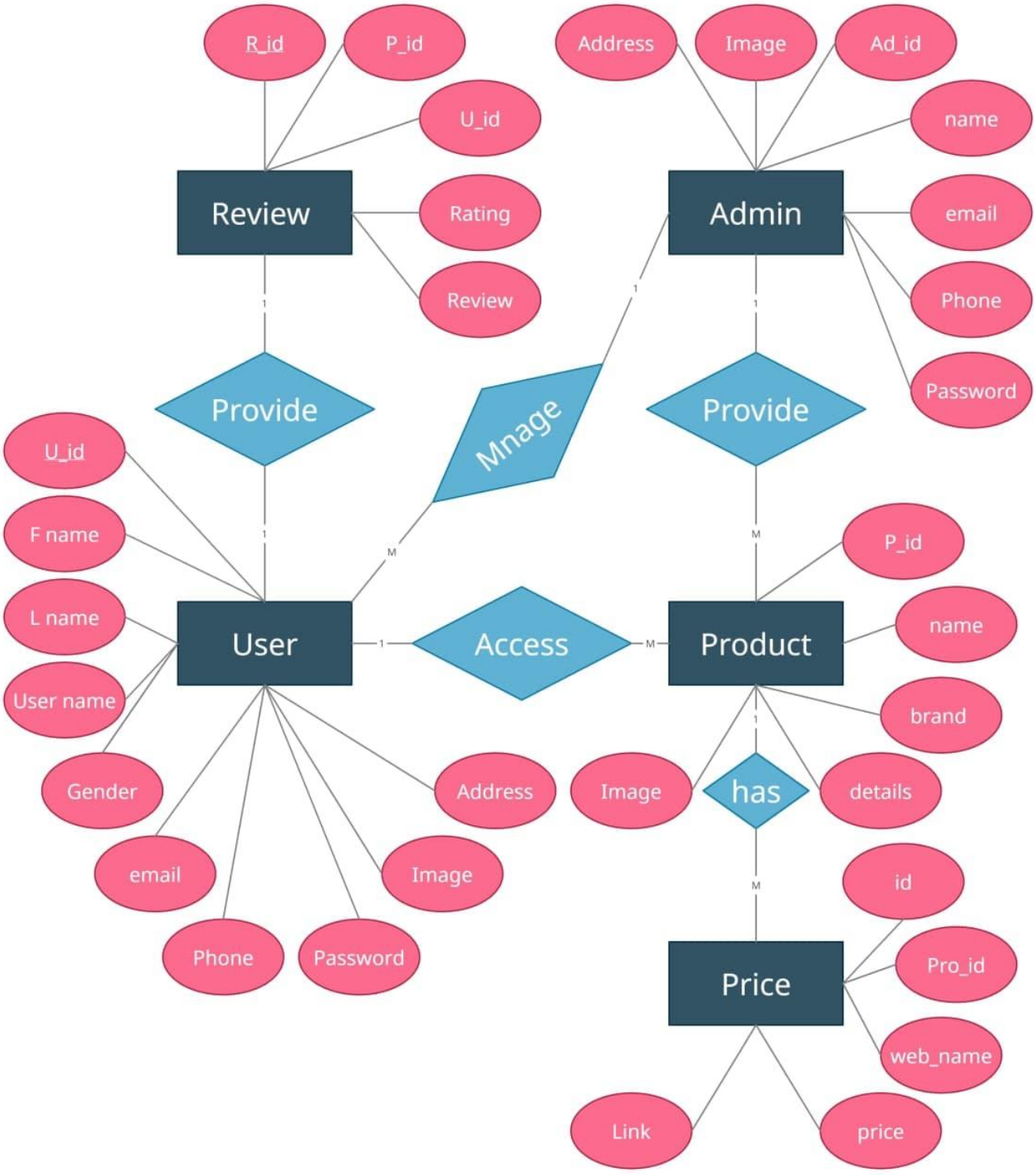


Figure 4.7: Entity Relationship Diagram for Product Review Maintenance System

4.3 Development Tools & Technology:

4.3.1 User Interface Technology:

4.3.1.1 Back End Framework:

Laravel

4.3.1.2 Angular JS:

No used

4.3.1.3 CSS Framework:

Use Bootstrap CSS in this project

4.3.2 Implementation Tools & Platforms:

4.3.2.1 Language:

Use PHP as Language.

4.3.2.2 MySQL Server:

Use MySQL Server as Database

4.3.2.3 Apache HTTP Server:

For run this Project use Apache HTTP Server as local server.

Chapter 5
System Testing

5.1 Testing Features

Unit Testing is a software technique process. Here evaluate every separate unit of code. After completing the project, we used this tool. We discovered a problem with my method. Then we'll try to figure out how to fix it.

Before a system is released, **acceptance testing** is performed. We discovered some minor errors when we used this method. Then we try to resolve it. After solve the system bug we release it for use.

5.1.1 Features to be tested

- Registration
- Login
- Logout
- Users enter rating and review
- Display the Product Ratings List Successfully
- Viewing a better rating list by product name is now possible.

5.1.2 Features not to be tested

- Feedback

5.2 Testing Strategies

5.2.1 Test Approach

5.2.1.1 Registration and

Login

Test Case:

- After successful Registration we check to see if the email/username and password with which the registration was done, works in login.

- Enter the email/username and password and click on login and see that it works perfectly.
- It takes us to the web application page after we log in.

5.2.1.2 Apply for Rating/Review:

Test case:

- After successfully login we enter the rating/review.
- After rating or review and then push the submit button. Then we enter rating or review successfully.

5.2.2 Pass/Fail Criteria

Our project meets all of the requirements.

5.2.4 Testing Schedule

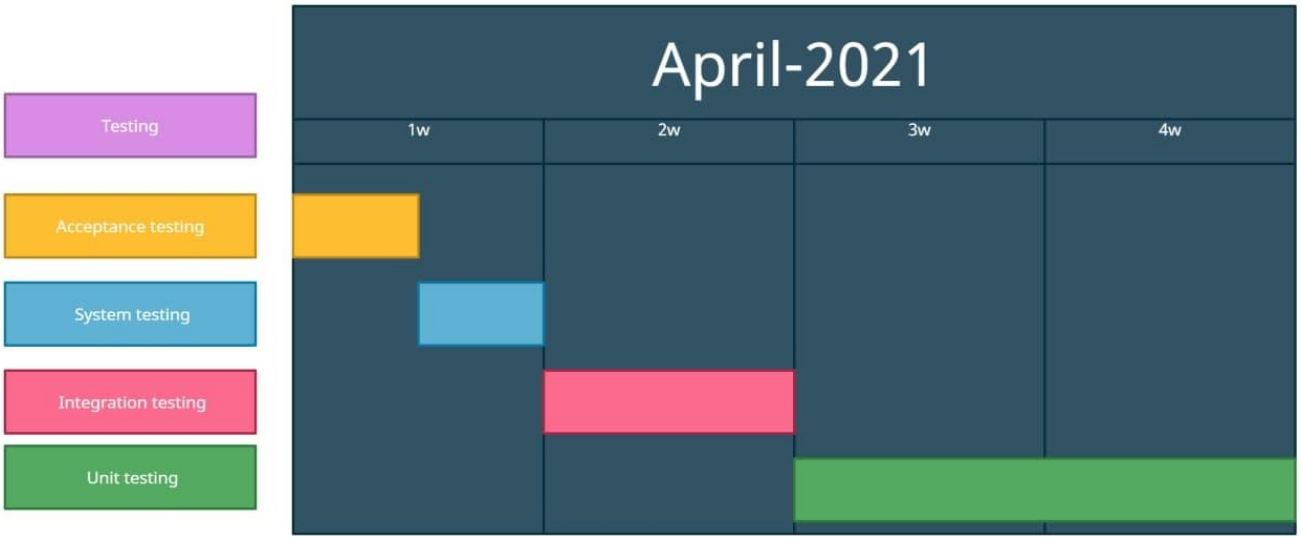


Figure 5.1: Testing schedule for Product Review System

Online product rating system

ORIGINALITY REPORT

12%	12%	0%	%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	dspace.daffodilvarsity.edu.bd:8080 Internet Source	9%
2	tapas.item.ntnu.no Internet Source	1%
3	eprints.utar.edu.my Internet Source	1%
4	www.slideshare.net Internet Source	<1%
5	23like.com Internet Source	<1%
6	Kong, Jiantao, Ivan Ganev, Karsten Schwan, Patrick Widener, and Carsten Griwodz. "", Multimedia Computing and Networking 2007, 2007. Publication	<1%
7	www2.slideshare.net Internet Source	<1%