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E-Buy-Garden

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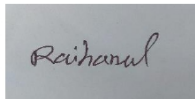
A project submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering

Department of Software Engineering
Daffodil International University
Spring- 2020

DECLARATION

DECLARATION

We hereby declare that we have taken this project under the supervisor of **Md. Anwar Hossen**, Senior Lecturer, **Department of Software Engineering, Daffodil International University**. We also declare that neither this thesis/project nor any part of Project has been submitted elsewhere for award of any degree.



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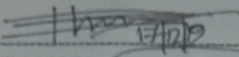
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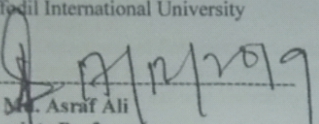
APPROVAL

This Project titled "University Admission Guideline", submitted by **Md Toriqul Islam, 161-35-1577** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

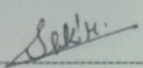
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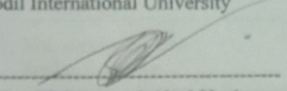
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Abstract

In today's speedy-changing business environment, it's extremely important if you want to reply to consumer desires in the most effective and timely manner. If your customers want to see your commercial enterprise online and have on the spot get entry to your services or products.

Online Shopping is a life-style e-trade net utility, which retails various fashion and life style merchandise (Currently Men's Wear). This mission allows viewing diverse merchandise to be had enables registered users to buy preferred merchandise right away the usage of PayPal fee processor (Instant Pay) and also can vicinity an order through the usage of Cash on Delivery(Pay Later) option.

In order to broaden an e-trade website, some of the technologies need to be studied and understood. These consist of multi-tiered architecture, server, and patron-side scripting tech-niques, implementation technology along with ASP.NET, programming language (which in-cludes C) and relational databases. This is a challenge with the objective to develop a basic website where a client is supplied with a shopping cart software and also to know about the technology used to develop such software. This document will talk to each of the underlying technology to create and enforce an e-trade internet site.

Key words: E-Buy-Garden

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Table of Contents

Abstract	i
Acknowledgment	ii
Chapter 1 Introduction	1
1.1 Project Overview	2
1.2 Project Purpose	2
1.2.1 Background	2
1.2.2 Benefits Beneficiaries	3
1.2.3 Goals	3
1.3 Stakeholder	3
1.4 Proposed System Model	4
1.5 Project Schedule	5
1.5.1 Gantt Chart	5
1.5.2 Release Plan or Milestone	6
Chapter 2 Software Requirements Specification (SRS)	7
2.1 Introduction	8
2.2 Functional Requirements	8
2.2.1 Admin Registration	9
2.2.2 Login For Admin	9
2.2.3 Post For Items	10
2.2.4 Order For Items	10
2.2.5 View Items	10
2.2.6 View Chart List	10
2.2.7 Admin View Profile	10

2.2.8	Admin edit their Profile	11
2.2.9	Conformation Order Post	11
2.3	Data Requirements	11
2.4	Performance Requirements	12
2.4.1	Speed and Latency Requirements	12
2.4.2	Precision or Accuracy Requirements	12
2.4.3	Capacity Requirements	13
2.5	Dependability Requirements	13
2.5.1	Reliability Requirements	13
2.5.2	Availability Requirements	14
2.5.3	Durability Requirements	14
2.6	Maintainability Support ability Requirements	14
2.6.1	Access Requirements	14
2.6.2	Integrity Requirements	15
2.6.3	Privacy Requirements	15
2.7	Usability and Human-Interaction Requirements	15
2.7.1	Ease of Use Requirements	15
2.7.2	Personalizing	15
2.7.3	Politeness Requirements	15
2.7.4	Accessibility Requirements	16
2.7.5	User Documentation Requirements	16
2.7.6	Training Requirements	16
2.8	Look and Feel Requirements	16
2.8.1	Appearance Requirements	16
Chapter 3	Requirement Analysis	17
3.1	Introduction	18
3.1.1	Case of Registration	19
3.1.2	Case of Login	19
3.1.3	Items Post	20
3.1.4	Order for items	20
3.1.5	View Order chart list	21
3.1.6	View Previous order items	21

3.1.7	View Profile	22
3.1.8	Update Profile	22
3.1.9	Delete Profile	23
3.2	Activity Diagram	23
3.2.1	Create profile	24
3.2.2	Login profile	25
3.2.3	Post Items	26
3.2.4	Order Items	27
3.2.5	View chart list	28
3.2.6	View previous order history	29
3.2.7	View profile	30
3.2.8	Update profile	31
3.2.9	Delete profile	32
3.3	Sequence Diagrams	33
3.3.1	Create profile	33
3.3.2	Login profile	34
3.3.3	Post Items	35
3.3.4	Order items	36
3.3.5	View Chart list	37
3.3.6	View previous order	38
3.3.7	View profile	39
3.3.8	Update profile	40
3.3.9	Delete profile	41
Chapter 4 System Design Specification		42
4.1	Class Diagram	43
4.2	Development tools and technology	44
4.2.1	User Interface Technology	44
4.2.1.1	Programming Language	44
4.2.1.2	JQuery	44
4.2.1.3	Bootstrap	45
4.2.1.4	CSS	45
4.2.2	Implemented tools and platform	45

4.2.3	Editor	45
4.2.4	Entity Framework	46
4.2.5	Database Server	46
4.2.6	Web Server	46
Chapter 5	System Test	47
5.1	Testing Features	48
5.1.1	Feature to be tested	48
5.1.1.1	Part of Student	48
5.1.1.2	Part of Admin	48
5.2	Testing Strategy	49
5.2.1	Test approach	49
5.2.2	Pass / Fail Criteria	50
5.2.3	Testing Schedule	50
5.2.4	Trace-ability Matrix	50
5.2.4.1	Part of User	50
5.2.4.2	Part of Admin	51
5.3	Testing Environment	51
5.4	Test Cases	52
5.4.1	Create Profile	53
5.4.2	Login	54
5.4.3	Post items	55
5.4.4	Order items	55
5.4.5	View Chart List	56
5.4.6	View Previous Order	56
5.4.7	View Profile	57
5.4.8	Update Profile	57
5.4.9	Delete Profile	59
Chapter 6	User Manual	60
6.1	Home page (E-Buy-Garder)	61
6.2	Create Profile	62
6.3	Login Profile	62

6.4	Admin Profile	64
6.5	Registration	65
6.6	Our location	66
Chapter 7 Conclusion		67
7.1	Git Repository Link	68
7.1.1	GitHub Link :	68
7.2	Critical Evolution	68
7.3	Limitations	69
7.4	Obstacles Achievements	69
7.5	Future Scope	69
7.6	References	70

List of Figures

1.1	System Model	4
1.2	Gantt chart	5
3.1	Use Case diagram for "E-Buy-Garden"	18
3.2	Activity diagram for Create Profile	24
3.3	Activity diagram for Login Profile	25
3.4	Activity diagram for items post	26
3.5	Activity diagram for order items	27
3.6	Activity diagram for View chart list	28
3.7	Activity diagram for View previous order	29
3.8	Activity diagram for View profile	30
3.9	View profile	31
3.10	Activity diagram for Delete profile	32
3.11	Sequence diagram for create profile	33
3.12	Sequence diagram for Login	34
3.13	Sequence diagram for post items	35
3.14	Sequence diagram for Order items	36
3.15	Sequence diagram for View Chart List	37
3.16	Sequence diagram for previous order items	38
3.17	Sequence diagram for profile	39
3.18	Sequence diagram for profile	40
3.19	Sequence diagram for profile	41
4.1	Class diagram for "E-Buy-Garden"	43
6.1	E-Buy-Garden	61

6.2	Admin Registration form	62
6.3	login form	63
6.4	Admin Profile Page	64
6.5	Registration Fill	65
6.6	Location details	66

List of Tables

1.1	Release Plan	6
2.1	Priority Chart.	9

Chapter 1

Introduction

1.1 Project Overview

Online Shopping is a life-style e-trade net utility, which retails various fashion and lifestyle merchandise (Currently Men's Wear). This mission allows viewing diverse merchandise to be had enables registered users to buy preferred merchandise right away the usage of PayPal fee processor (Instant Pay) and also can vicinity an order through the usage of Cash on Delivery (Pay Later) option.

In order to broaden an e-trade website, some of the technologies need to be studied and understood. These consist of multi-tiered architecture, server, and patron-side scripting techniques, implementation technology along with ASP.NET, programming language (which includes C) and relational databases. This is a challenge with the objective to develop a basic website where a client is supplied with a shopping cart software and also to know about the technology used to develop such software.

This document will talk to each of the underlying technology to create and enforce an e-trade internet site.

1.2 Project Purpose

This project named "E-BUY-GARDEN" is make to automation system which any person can buy shopping for daily. So that's why we are going to develop such a project.

1.2.1 Background

An online keep is a virtual store on the Internet in which clients can browse the catalog and pick out products of interest. The decided on items can be accumulated in a buying cart. At checkout time, the gadgets in the shopping cart can be presented as an order. At that point, extra statistics can be wished to finish the transaction.

Usually, the patron can be requested to fill or pick out a billing deal with, a delivery address, a transport alternative, and price facts such as a credit score card variety. An email notification is sent to the patron as quickly because the order is positioned.

1.2.2 Benefits Beneficiaries

Now List to benefits and Beneficiaries this application

- Convenience Easiness.
- Offer Product Data sheets.
- Comprise Warranty Information
- Decreasing cost of inventory Management
- Stay open 24*7/365
- Boost Brand Awareness
- Decrease Costs.
- Offer Huge Information
- Ability of Multi-site

So, The our motive is to create an online place where a Public can buy for there choice product.

1.2.3 Goals

The number one aim of an E-Commerce is to reach the greater and proper customers at the right time in order that more orders can be placed and in flip, high revenue may be generated. E-Commerce makes available some of the merchandise to their clients so that clients can make a preference.

1.3 Stakeholder

The Stakeholder for this system:

- Admin
- User

Admin : Admin can put up submit any product for promoting which the public should buy the product. All instances admin accumulate all motion and reply feedback of purchasing information.

Student : The Public finds out their chosen product. They can buy a specific product.

1.4 Proposed System Model

I have already organized a website. This model will clarify our proposed gadget in short.

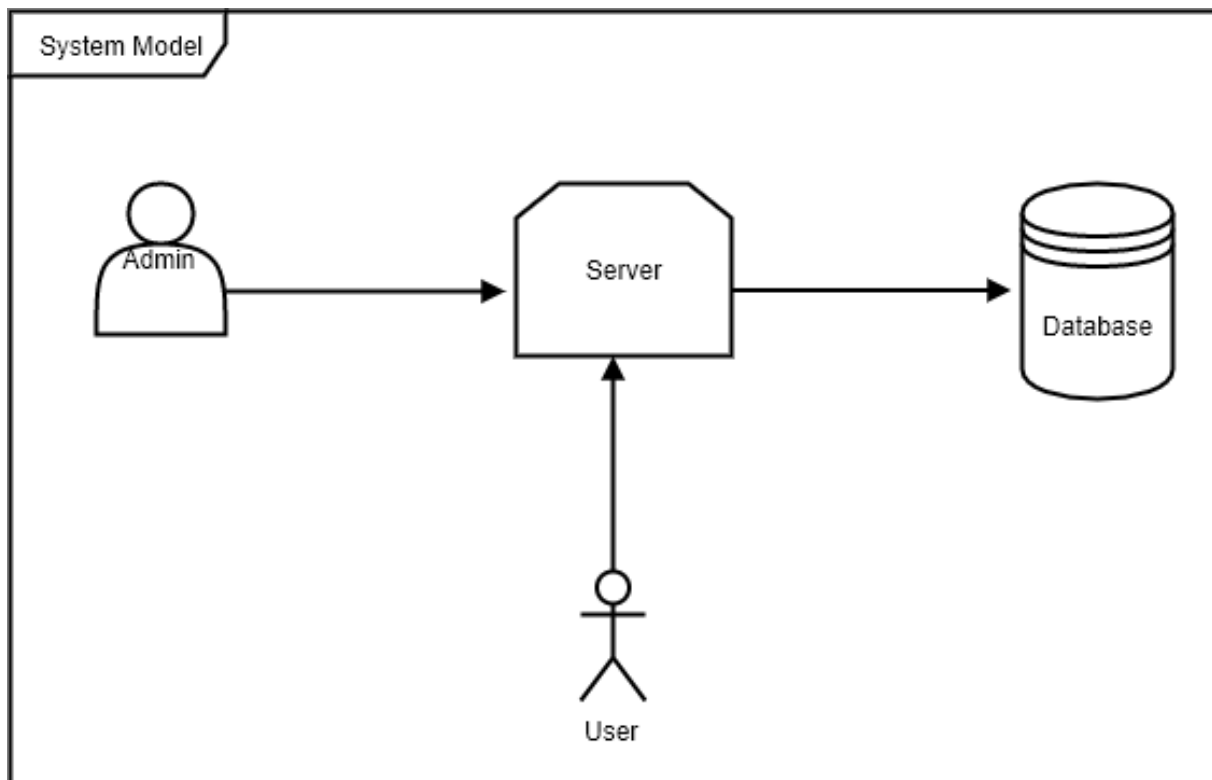


Figure 1.1: System Model

1.5 Project Schedule

Right scheduling is helping to complete the venture correctly and on time. Project scheduling makes ideal paintings go together with the go with the flow to little by l time-body. The scheduling is ought to for internet software.

1.5.1 Gantt Chart

Gantt chart is especially production manipulate tools. It remained us to complete our assigned obligations within a certain time period. For growing an internet site, it's miles on the student's use. Now I will display a Gantt chart for our task the software:



Figure 1.2: Gantt chart

1.5.2 Release Plan or Milestone

The release plan or milestones are given below:

Activities	Duration in Month	Total Month
Brainstorming	First-half(First month	0.5(Half month)
Problem identification	First month	1
Requirement specification	Second-half (Second month)	Third month
1.5		
Requirement analysis	Third month	1
Sketching	Fourth month	1
Design specification	Fourth month	1
Database design	Second-half (Fourth month)	0.5
Post for booking party center	First-half (Fifth month)	1.5
Post for laundry service	Second-half(Fourth month)	1
Quality assurance	Second-half (Third month)	First-half(Fourth month)
1		
Test case	First-half (Fifth month)	0.5
Unit testing	Second-half (Fourth month)	Fifth month
1		
Black-box testing	Fifth month	Sixth month
2		
Website	Eight	1

Table 1.1: Release Plan

Chapter 2

Software Requirements Specification (SRS)

2.1 Introduction

In this chapter, periodic patterns mining relevant literature's in unstructured and structured databases have been reviewed. The main focus of this project is mining periodic patterns in university admission service representation model. At first, some periodic patterns mining research in unstructured database are described briefly. Finally, we conclude this chapter mentioning some limitations of existing works and make clear our motivation.

2.2 Functional Requirements

Functional requirements seek advice from the characteristic that's ought to belong to the gadget. Functional necessities are mandatory to perform the software device. There is no gadget with our practical requirements. Now, we are going to speak about practical necessities for my application.

Priority Chart : A Prioritization Matrix is a useful method to identify which issues are the most important to paintings on solving first. The Matrix facilitates you rank problems or problems generated via brainstorming. Using Priority Chart we will perceive which characteristic need to get High Priority and which one should be Medium and which one is Low.

In Priority Matrix there is two part one is "Important" another one is "Urgent". If any function is:

Important also Urgent = High Priority

Important but Not Urgent = Medium Priority

Not Important but Urgent = Low Priority

Not Important and Not Urgent = Ignore It

Important also Urgent	Yes	No
Yes	High Priority	Medium Priority
No	Low Priority	Ignore It

Priority of our system features based on Priority Chart

Freq.No	Use case	Important	Urgent	Priority
FR01	Create Profile	Yes	Yes	High
FR02	Login Of Admin	Yes	Yes	High
FR03	Post for Items	Yes	Yes	High
FR04	Order for Items	Yes	Yes	High
FR05	View Items	No	Yes	Medium
FR06	View Chart List	Yes	Yes	Medium
FR07	View Profile	No	Yes	ignore It
FR08	Edit Admin profile	Yes	Yes	Medium
FR09	Conformation Post	Yes	Yes	High

Table 2.1: Priority Chart.

2.2.1 Admin Registration

FR01	Create Profile		
Description	Admin can create the profile with Valid require information like Name, Phone number, Address, Email etc. Admin must be login into the Application for perform this task.		
Stakeholder	Admin	Priority : High	

2.2.2 Login For Admin

FR02	login for Admin		
Description	Admin can create an account. And also that they showing that notice for items.		
Stakeholder	Admin	Priority : High	

2.2.3 Post For Items

FR03	Post for Items		
Description	Admin can post Items where all public can buy for Items under Bangladesh.		
Stakeholder	Admin	Priority : High	

2.2.4 Order For Items

FR04	Order For Items		
Description	When public can checks out then all public can order for Items under Bangladesh.		
Stakeholder	User	Priority : High	

2.2.5 View Items

FR05	View Chart List		
Description	User can see all products for buy.		
Stakeholder	User	Priority : Medium	

2.2.6 View Chart List

FR06	View Chart List		
Description	User can able to see all products. After a period of session the all activity of public, goes to previous history.		
Stakeholder	User	Priority : Medium	

2.2.7 Admin View Profile

FR07	View Profile		
Description	Admin can able to see his profile . After a period of session the all activity of public, goes to previous history.		
Stakeholder	Admin	Priority : Medium	

2.2.8 Admin edit their Profile

FR08	Edit their profile		
Description	Admin can Edit their order post. For edit their have to go their apply through clicking previous button on menu bar “Edit”. And click the Edit button user can edit their own profile.		
Stakeholder	User	Priority : Medium	

2.2.9 Conformation Order Post

FR9	Conformation Post		
Description	Admin getting order product notification from admin, then admin check the schedule and other info and confirm the post.		
Stakeholder	Admin	Priority : High	

2.3 Data Requirements

For attaining the version objectives data necessities prescribed scope and degree of detail required. What statistics are needed for constructing the version may be known through amassing device records. Instead of amassing fashionable system facts it’s better to accumulating precise machine information. A usual process float can provide greater particular records. A method waft also facilitates to build a version constructing procedure.

We focus some of main points:

- Route order products and their capability
- The type of entity and their attributes
- Types of resources
- Entities movement
- What activity
- Quantity of data

2.4 Performance Requirements

Defined performance specs incorrectly can lead to disputes among students and University's authority.

2.4.1 Speed and Latency Requirements

This is rare, in a few cases the reaction time may be dictated by means of legal necessities. Response time is critical for personal pride. If any gadget loaded greater than 10 seconds then a person keeps away from them of all activity.

RT1	View and order should be displayed less than 4 seconds		
Description	When user or Admin want to see any information then the view result must be show less than 4 second		
Stakeholder	User,Admin	Priority : Medium	

2.4.2 Precision or Accuracy Requirements

Always display the correct end result to all sorts of customers. Wrong facts stands up the false impression.

PAR1	View Result must be accurate		
Description	When the User or Admin want to see any information then the view result must accurate.		
Stakeholder	User,Admin	Priority : Medium	

2.4.3 Capacity Requirements

The gadget should be capable of assisting a positive amount of students and a certain amount of interactions.

RT1	Supporting a sure quantity of user and a certain amount of inter-actions.		
Description	Suppose the machine must guide two hundred People and one hundred interactions according to day.		
Stakeholder	User,Admin	Priority : Medium	

2.5 Dependability Requirements

The dependability is measured based on 4 dimensions. Such as:

- Reliability
- Availability
- Durability
- Reliability

Dependability is the capacity to offer offerings that can defensibly be depended on within a time-length.

2.5.1 Reliability Requirements

Reliability is the opportunity of failure-loose operation of a machine over a special time within a detailed environment for a precise cause.

DR1	The device should be failure-loose		
Description	The device ought to be failure-loose operation gadget and technical error-unfastened over a certain time inside this form of surroundings		
Stakeholder	User,Admin	Priority : High	

2.5.2 Availability Requirements

AR1	The ability of the system to supply service when requested		
Description	The device must be to be had on 24 X 7. The ability of the gadget to deliver provider when requested		
Stakeholder	User,Admin	Priority : High	

2.5.3 Durability Requirements

D1	Ensure that the system can cope with all user access or any outside tolerance		
Description	The device can address an blunders all through execution. Also, make certain that the system maintains well even of the failure of some of its additives		
Stakeholder	User,Admin	Priority : High	

2.6 Maintainability Support ability Requirements

System protection is most crucial necessities. For lack of safety the records could be stealing, manipulating information and causing denial of carrier.

Some security related categories

- Permission to access data
- Verification
- Securing information
- Security policies

2.6.1 Access Requirements

Reduce unauthorized get entry to there have some boundaries. There remain a few authentication and authorization method.

- Strong Access Control Measures
- Maintain an Information Security Policy

- Regularly Monitor and Test Networks
- Build and Maintain a Secure Network

2.6.2 Integrity Requirements

Ensure that facts and communications aren't deliberately corrupted through unauthorized advent, deletion, change. We use a Hash fee for touchy records.

2.6.3 Privacy Requirements

Privacy requirements are in the main needed for a device. In our system, we accomplice the Users and admin vicinity and all and sundry can see best the area this is related to them.

2.7 Usability and Human-Interaction Requirements

The system can be failed for Usability. User Experience is one of the most crucial factors for any system. The device must be clean to apply, easy to recognize and easy to research.

2.7.1 Ease of Use Requirements

This application may be very clean to use and smooth to comprehensible. There is not any long technique to finish a mission. Users can whole their motion with some steps.

2.7.2 Personalizing

In my Project, there are no personalising and internationalization requirements.

2.7.3 Politeness Requirements

I made this device primarily based on a centered place and all of those centered areas students have acknowledged approximately our system because this device is making their life simpler. User can recognize this device by means of very own.

2.7.4 Accessibility Requirements

The requirements for the way smooth it needs to be for the student and our system is very a great deal clean to apply and recognize.

2.7.5 User Documentation Requirements

Gather the user expects and have to do it in the machine well is mandatory due to this requirement given by means of the consumer immediately. And after the complete system consumer can provide new requirements then it's additionally be added in the machine.

2.7.6 Training Requirements

If it wishes to train the person to apply the system nicely then it's a have to to training them nicely. In our venture, we don't need this type of training for consumer but a simple guide for them.

2.8 Look and Feel Requirements

If your systems look garbage then the person can experience boring and not going to the following step. Look and sense necessities are how the machine will appear to be and the way the consumer interface or graphical user interface of our machine will display to the consumer.

2.8.1 Appearance Requirements

The User and Admin should understand which subject is required and which isn't due to the fact we make it easily comprehensible. Such as, if there any optional subject then the phrase "optional" seemed in the field.

AR1	In non-obligatory area the phrase "elective" need to appear into the field		
Description	If there is no elective word that seemed within the subject which means this subject is obligatory for enter.		
Stakeholder	User,Admin	Priority : High	

Chapter 3

Requirement Analysis

3.1 Introduction

I have use case diagram. And there are actors. Each actor plays a one-of-a-kind role. And those are already indicated to this use case diagram. This diagram will clarify my application in quick.

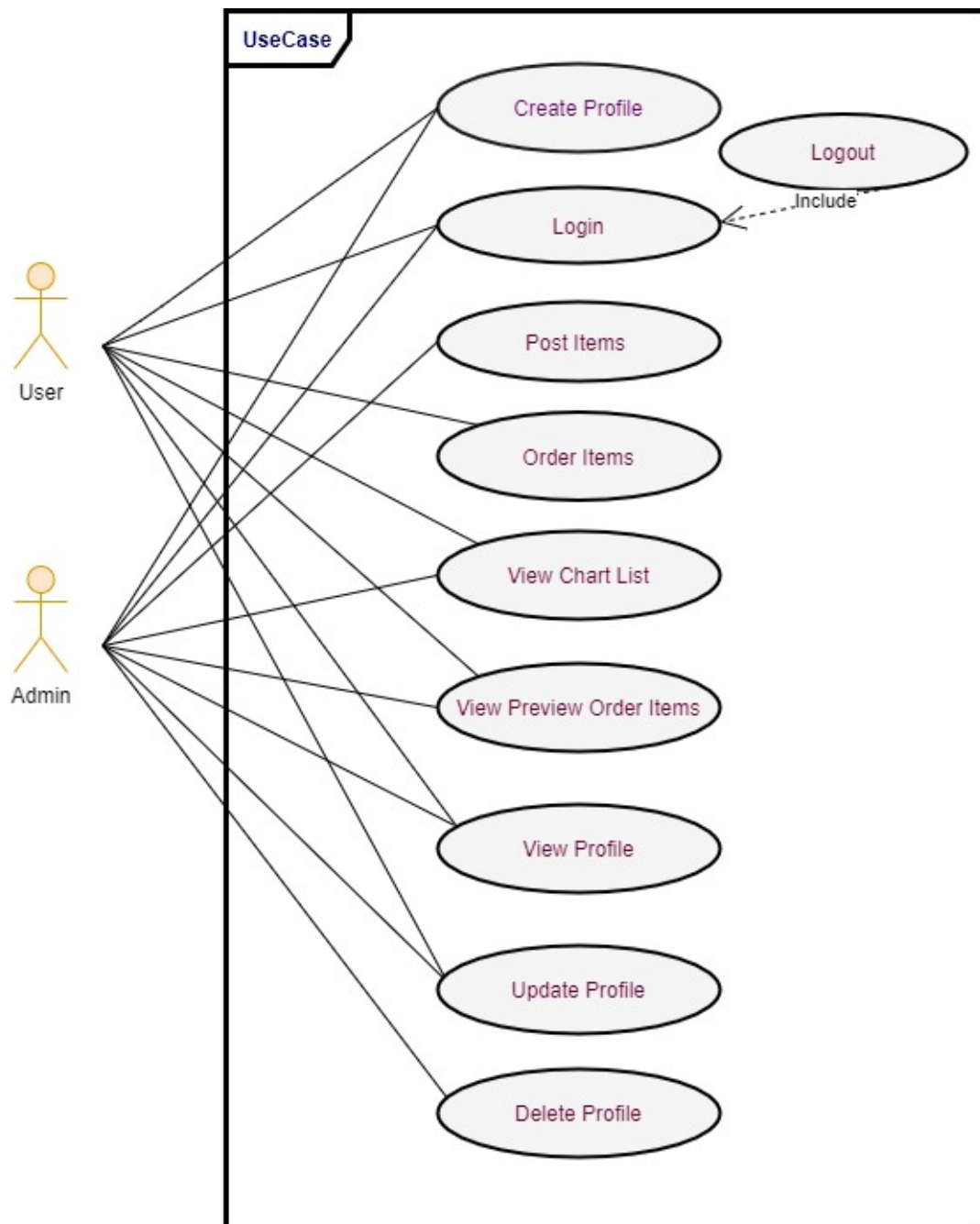


Figure 3.1: Use Case diagram for "E-Buy-Garden"

3.1.1 Case of Registration

Use Case	Create Profile	
Goal	Create Admin profile accounts	
Preconditions	User type must be admin	
Success End Condition	Create Admin profile successfully	
Failed End Condition	Can not create account	
Primary Actors	Admin	
Trigger	Admin click on the “Registration” button	
Description / Main Success Scenario	Step	Action
	1	Fill up all require information
	2	Create admin profile
Alternative Flows	Step	Action
	2a	Can’t admin user profile
	2a	Can’t access the system
Quality Requirements	N/A	

3.1.2 Case of Login

Use Case	Login For Admin	
Goal	Admin input the software after the login efficaciously	
Preconditions	Admin must exist in database	
Success End Condition	Admin can access the system	
Failed End Condition	The user name and password is not valid	
Primary Actors	Admin	
Trigger	Admin click on the “login” button	
Description / Main Success Scenario	Step	Action
	1	System display the login page
	2	Admin enter his Email and Password
	3	Admin click on the login button
	4	Admin access the system
Alternative Flows	Step	Action
	1	Email and Password in not valid
	2	Can’t access the system
Quality Requirements	Step	Requirements
	1	N/A

3.1.3 Items Post

Use Case	Items Post	
Goal	Admin can post to Items Post schedule	
Preconditions	User type must be Admin	
Success End Condition	Successfully this post for items	
Failed End Condition	The Admin submit for post items.	
Primary Actors	Admin	
Trigger	Click on the “Post” button	
Description / Main Success Scenario	Step	Action
	1	Admin can be able to see order items
Alternative Flows	Step	Action
	1	Admin can't the post
	2	Can't access the system
Quality Requirements	N/A	

3.1.4 Order for items

Use Case	Order for items	
Goal	User can be buy to any items	
Preconditions	Fill up all require information field	
Success End Condition	Successfully order for items	
Failed End Condition	User can't Order Items	
Primary Actors	Students	
Trigger	User click on the “Order” button	
Description / Main Success Scenario	Step	Action
	1	User provide all required information
	2	Submit the order for any items
Alternative Flows	Step	Action
	1 Can't access the system	User can't order for items 2
Quality Requirements	N/A	

3.1.5 View Order chart list

Use Case	View Order chart list	
Goal	User and Admin can see details information of any items	
Preconditions	User type must be public or Admin	
Success End Condition	See chart list details	
Failed End Condition	There are can't see of chart list	
Primary Actors	Admin And User	
Trigger	Click on the "Chart" button	
Description / Main Success Scenario	Step	Action
	1	User or Admin can be able to see chart list details
Alternative Flows	Step	Action
	1	User can't see all chart list
	2	Admin can't see all chart list
Quality Requirements	N/A	

3.1.6 View Previous order items

Use Case	View Previous order items	
Goal	View Previous order items	
Preconditions	User type must be user or Admin	
Success End Condition	User or Admin see his all previous history	
Failed End Condition	Can't available see of order items	
Primary Actors	Admin Or User	
Trigger	Previous history data visible click on "order"	
Description / Main Success Scenario	Step	Action
	1	User data appear to People
	2	User click on "Previous History" button to see his previous history
	3	Admin click on "Previous History" button to see his previous history
Alternative Flows	Step	Action
	2a	User can't able to see his previous history
Quality Requirements	N/A	

3.1.7 View Profile

Use Case	View Profile	
Goal	Admin can be viewed there profile	
Preconditions	User type must be admin	
Success End Condition	Successfully admin see profile on account	
Failed End Condition	Can't Viewed profile	
Primary Actors	Admin	
Trigger	Press the "Profile" button	
Description / Main Success Scenario	Step	Action
	1	Students data appear to Universities
	2	Students click on "Profile" button to see his previous history
Alternative Flows	Step	Action
	2a	Admin can't be able to see profile
	2a	Admin can't access the system
Quality Requirements	N/A	

3.1.8 Update Profile

Use Case	Update Profile	
Goal	Admin can be edit his profile	
Preconditions	User type must be Admin, and login on profile	
Success End Condition	Admin can be update his profile	
Failed End Condition	Admin can't update his profile	
Primary Actors	Admin	
Trigger	Update profile data visible to the admin click on "Update" button	
Description / Main Success Scenario	Step	Action
	1	Admin data appear to Universities
	2	Admin to see his previous history
Alternative Flows	Step	Action
	2a	Admin can't be able to update his profile
	2a	Admin can't be able to access his profile
Quality Requirements	N/A	

3.1.9 Delete Profile

Use Case	Delete Profile	
Goal	Delete an profile	
Preconditions	User type must be Admin and login on profile	
Success End Condition	Delete the profile	
Failed End Condition	can't elected the account	
Primary Actors	Admin	
Trigger	To the delete an profile click on "delete" button	
Description / Main Success Scenario	Step	Action
	1	Admin data appear to Universities
	2	Admin see his profile
Alternative Flows	Step	Action
	2a	Admin can't be able to this time
	2a	Admin can't be access to this time
Quality Requirements	N/A	

3.2 Activity Diagram

I have prepared some activity diagram according to our use case. These activity diagrams are properly referring the flow of the individual conditions of our project.

3.2.1 Create profile

User can create a profile and offer the profile to the server, and using this profile Users entry the system.

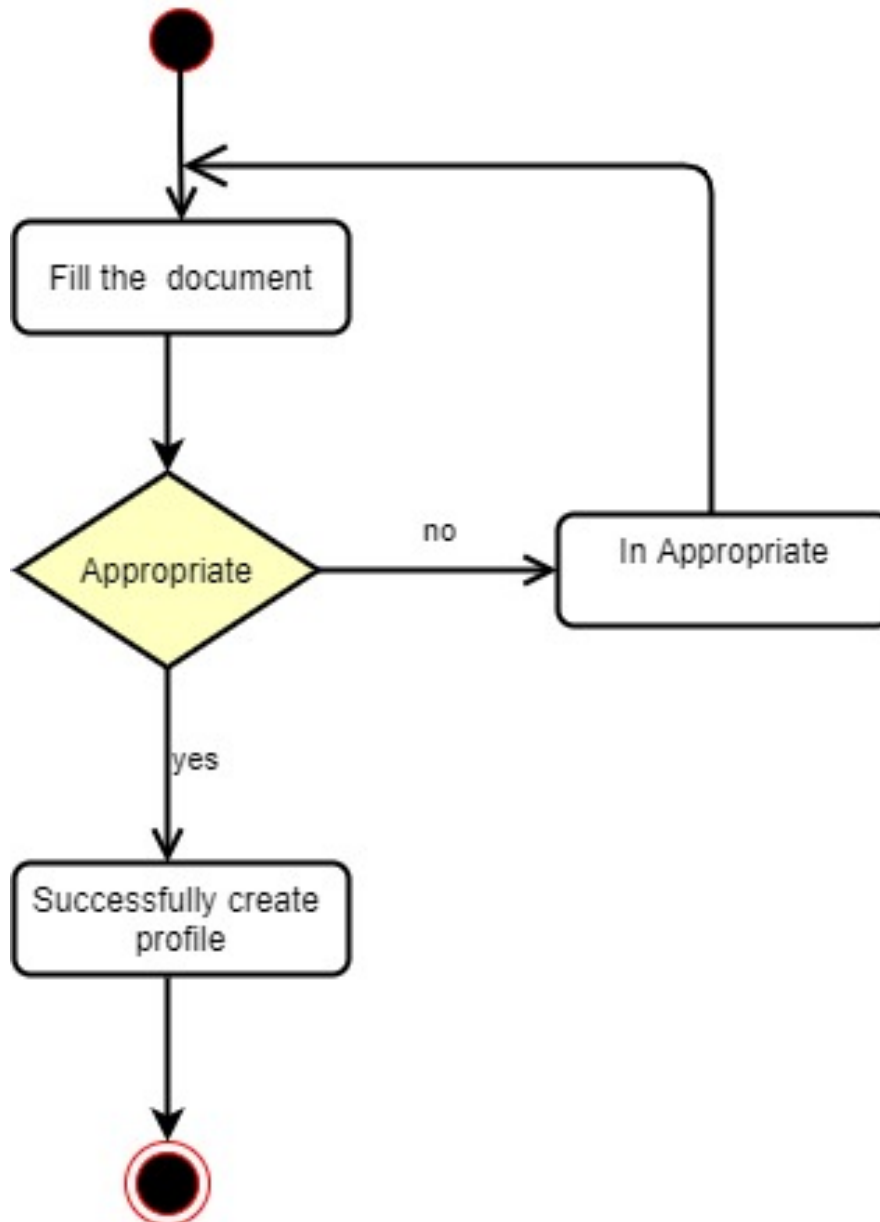


Figure 3.2: Activity diagram for Create Profile

3.2.2 Login profile

Admin or user also wish to verify them by login into the device, the usage of electronic mail and password.

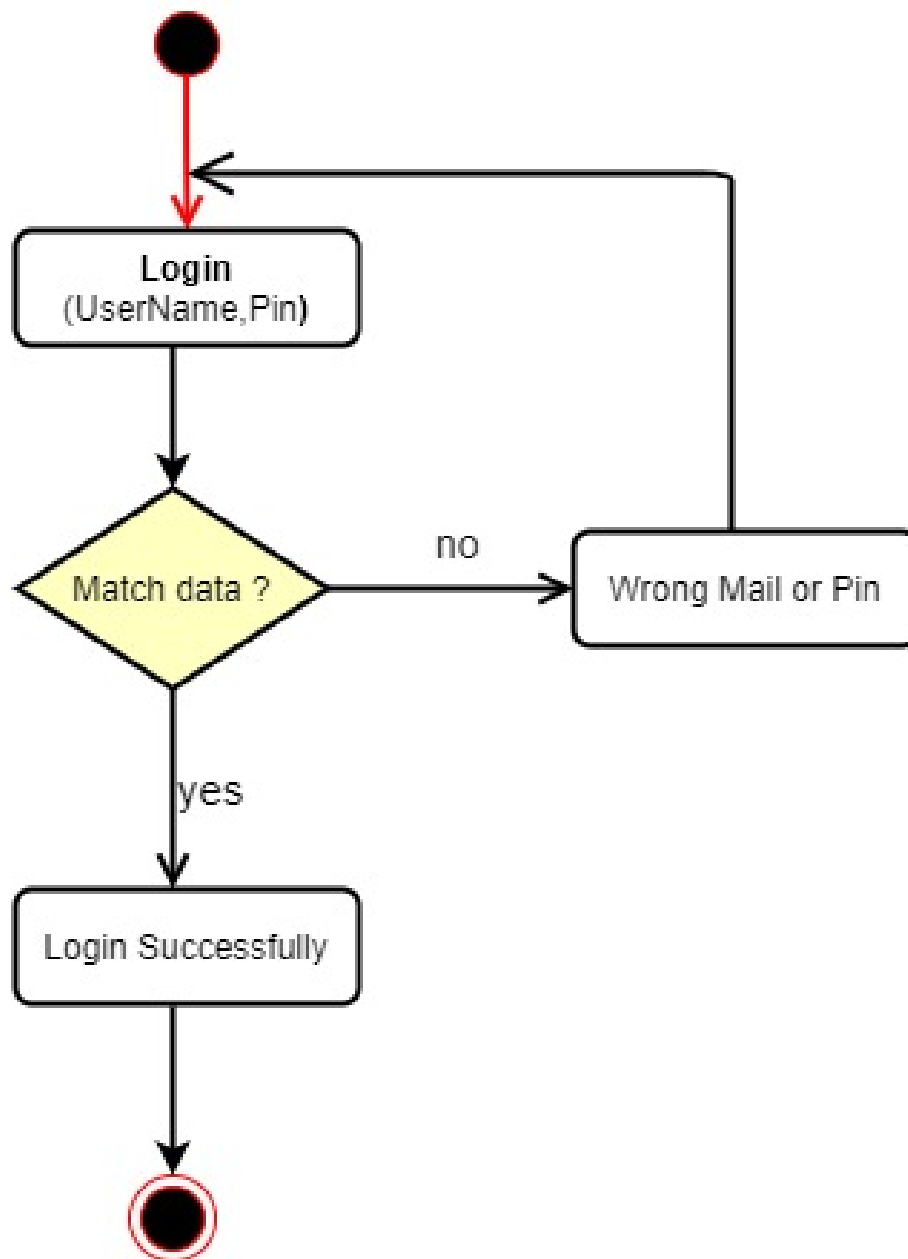


Figure 3.3: Activity diagram for Login Profile

3.2.3 Post Items

Only the admin can post for the items.

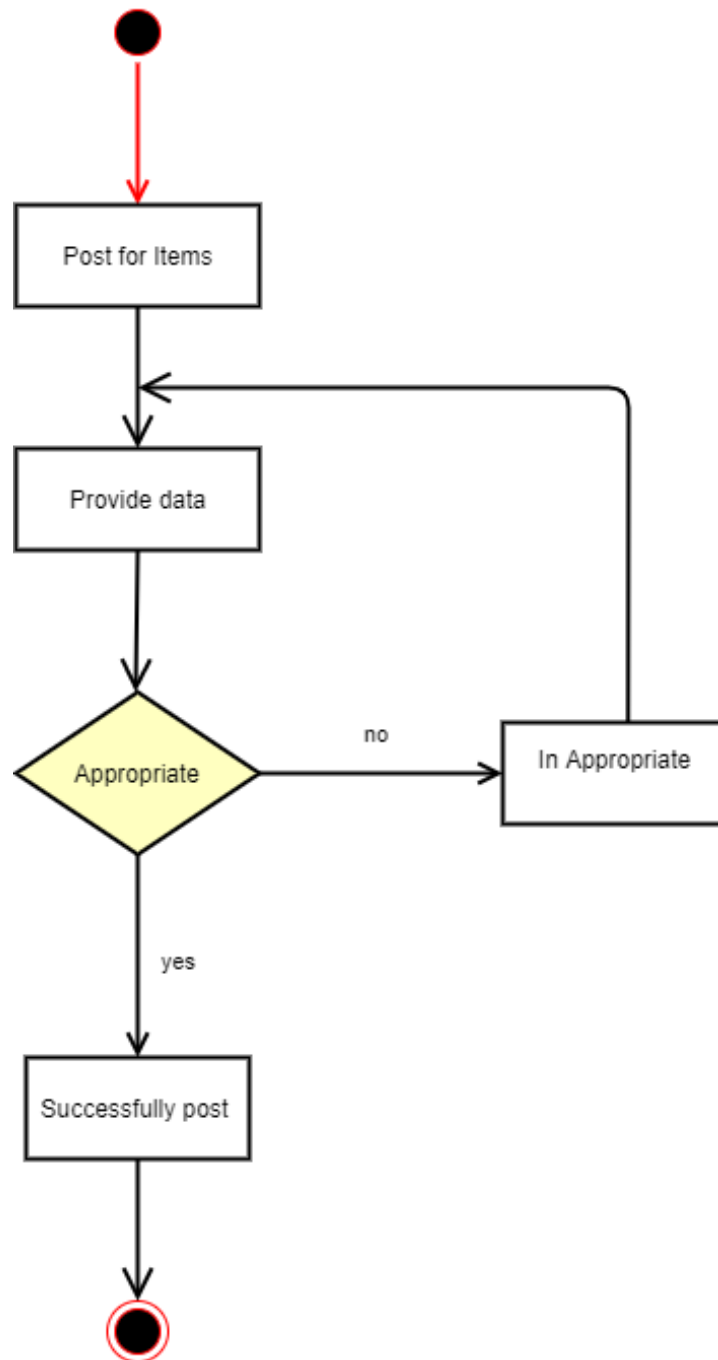


Figure 3.4: Activity diagram for items post

3.2.4 Order Items

Only the user can order to items.

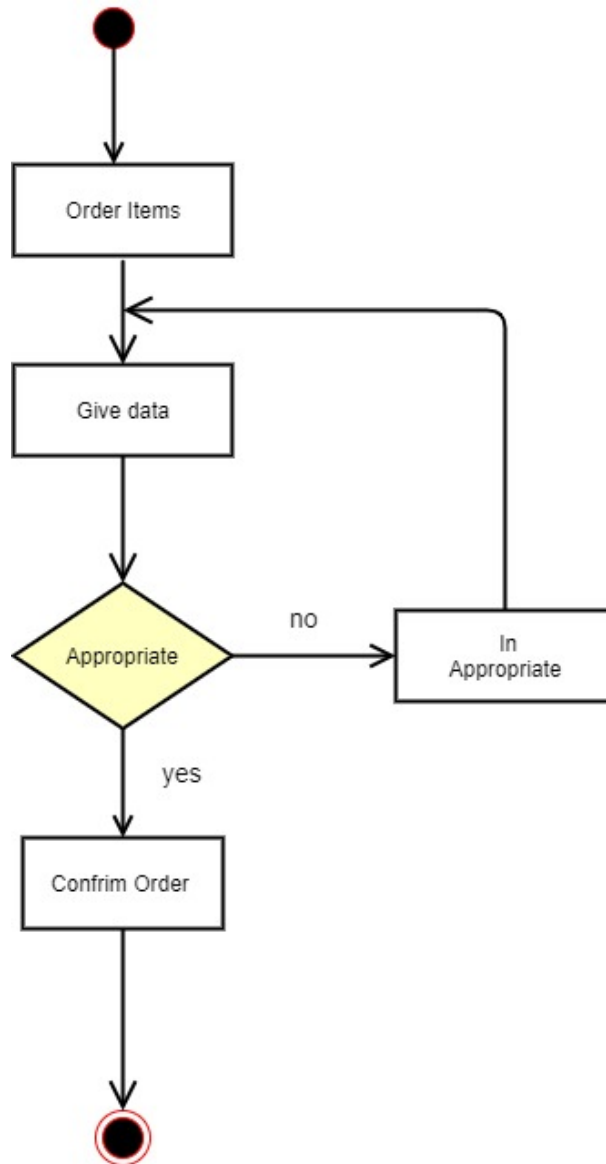


Figure 3.5: Activity diagram for order items

3.2.5 View chart list

User can view order list. There is an order provider information chart and admin can view it.

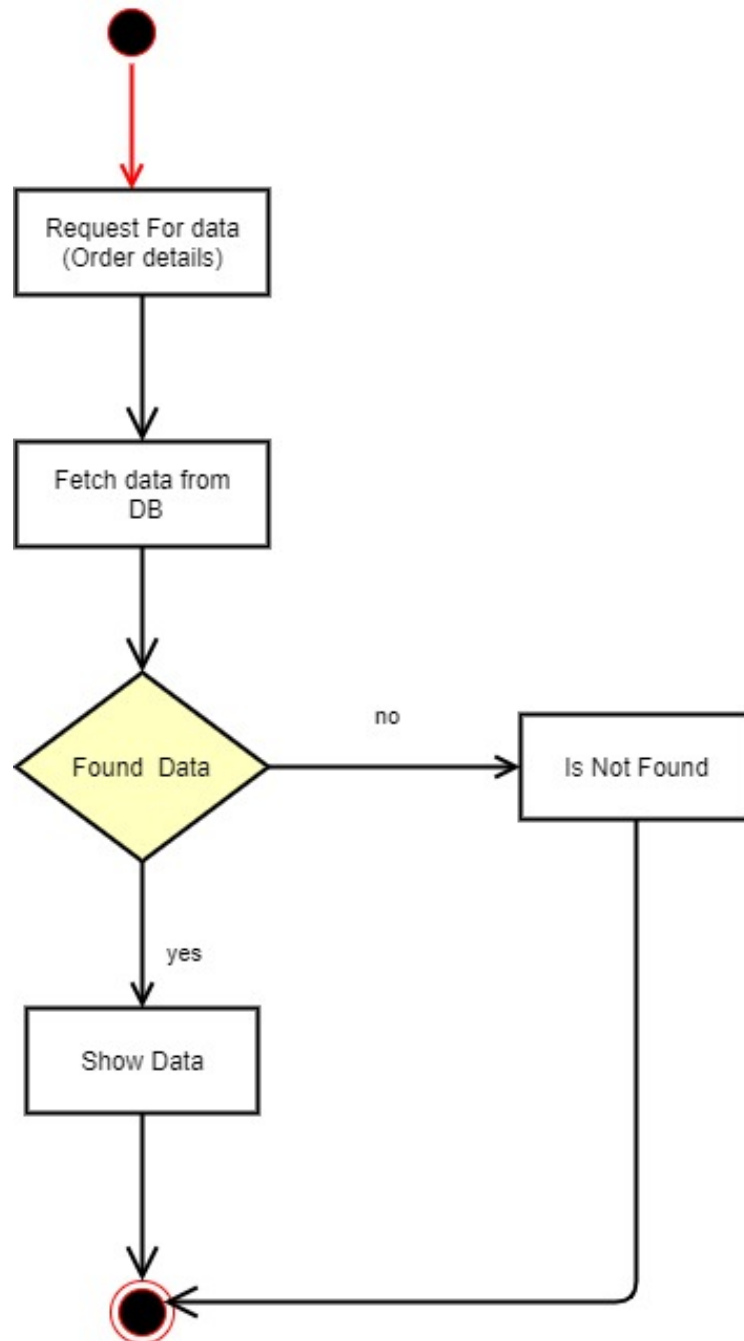


Figure 3.6: Activity diagram for View chart list

3.2.6 View previous order history

User doing some activities such as post for items order, view order list, etc. Then these activities will be recorded can see those activities in the previous history part.

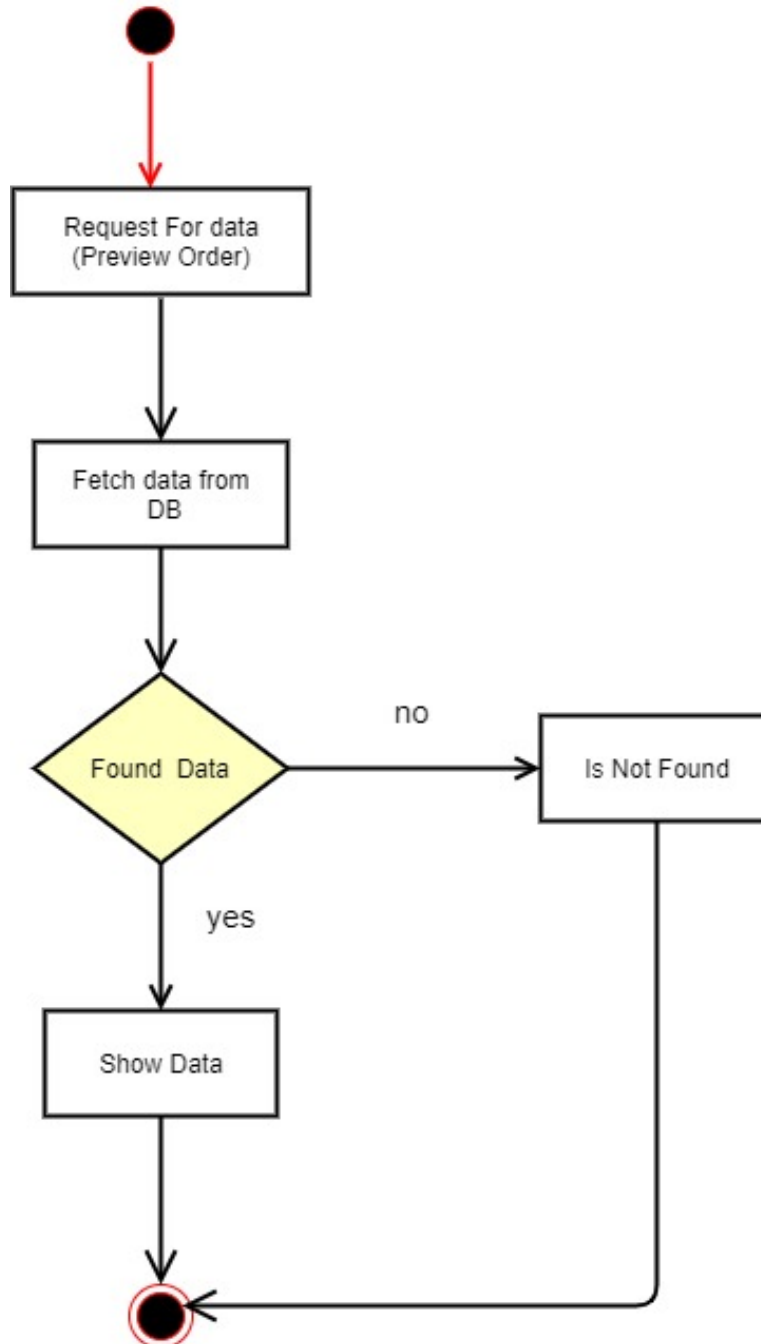


Figure 3.7: Activity diagram for View previous order

3.2.7 View profile

User or Admin can see there profile.

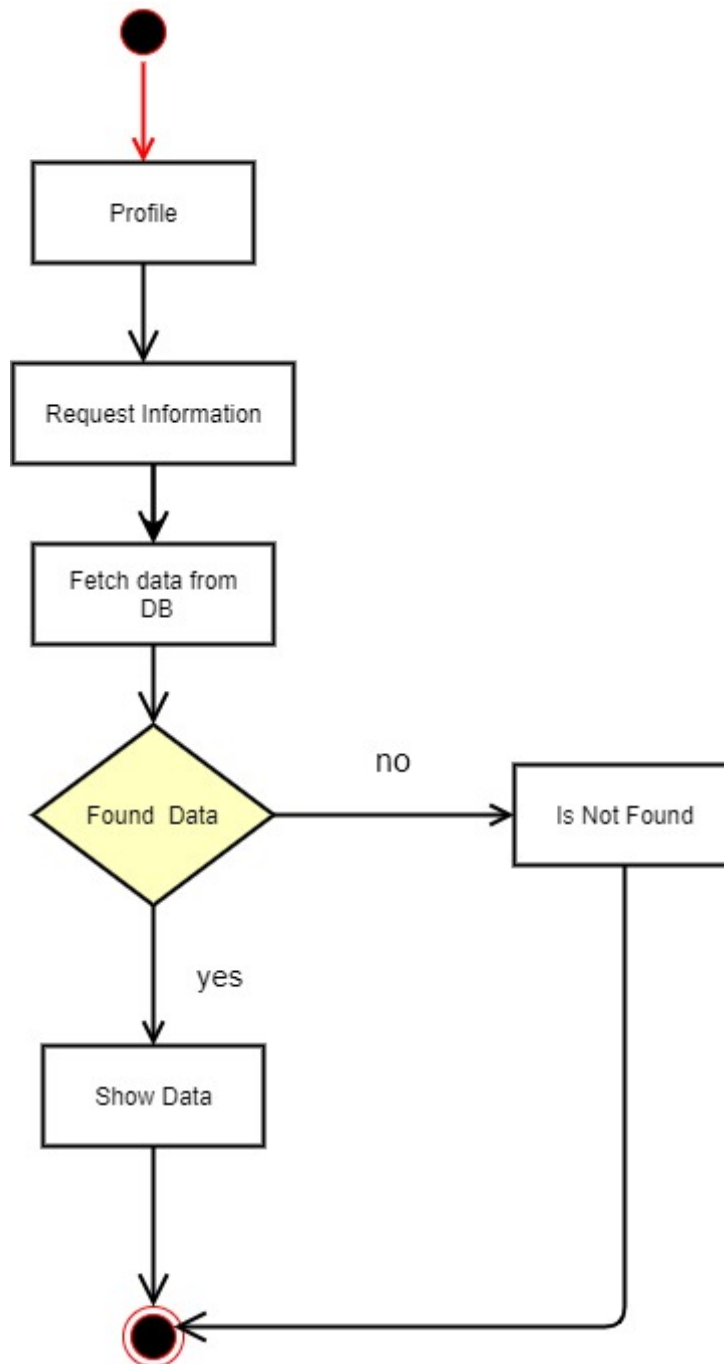


Figure 3.8: Activity diagram for View profile

3.2.8 Update profile

User or Admin want to that, they ought to replace their profile then they are able to without problems edit their own profile.

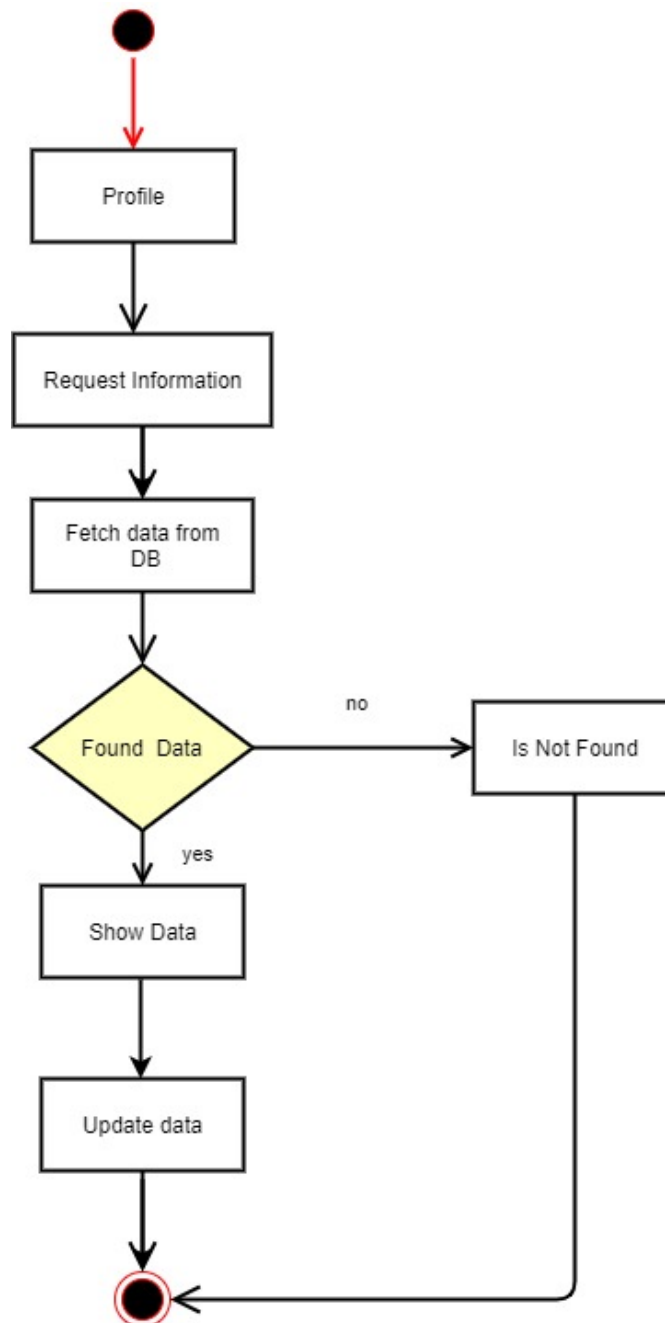


Figure 3.9: View profile

3.2.9 Delete profile

User or Admin want to that, they ought to delete their profile then they are able to without problems delete their own profile.

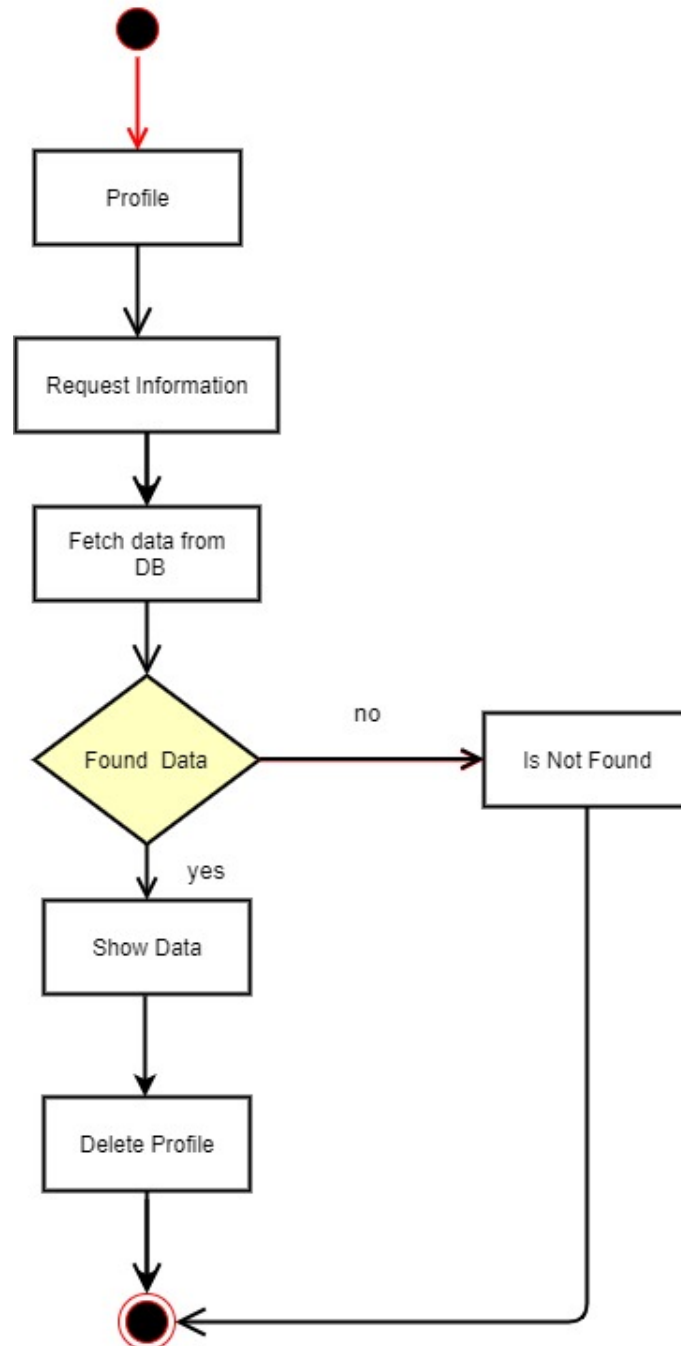


Figure 3.10: Activity diagram for Delete profile

3.3 Sequence Diagrams

Mainly collection diagrams understand how the facts could be followed in any utility. Now we are going to reveal a few sequence diagrams.

3.3.1 Create profile

User can create a profile and offer the profile to the server, and using this profile user entry the system.

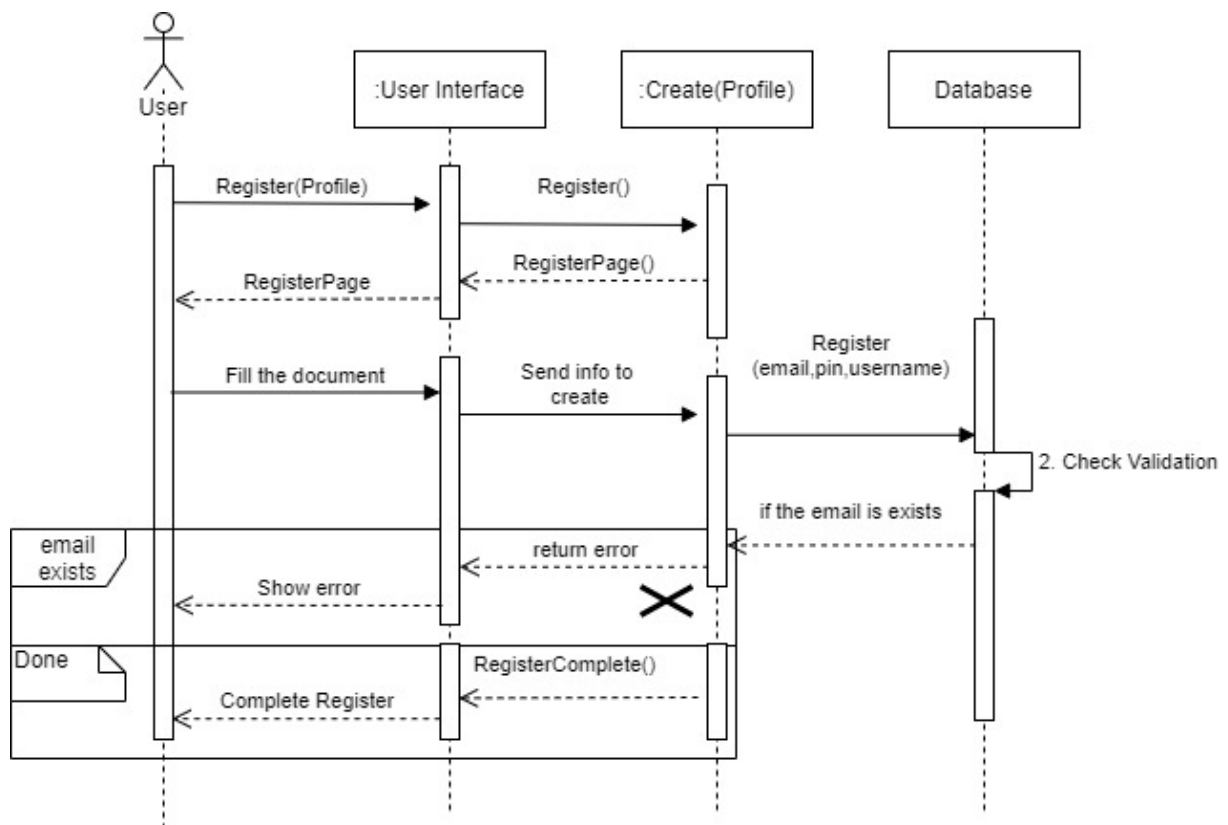


Figure 3.11: Sequence diagram for create profile

3.3.2 Login profile

Admin or User login the system using the mail and password.

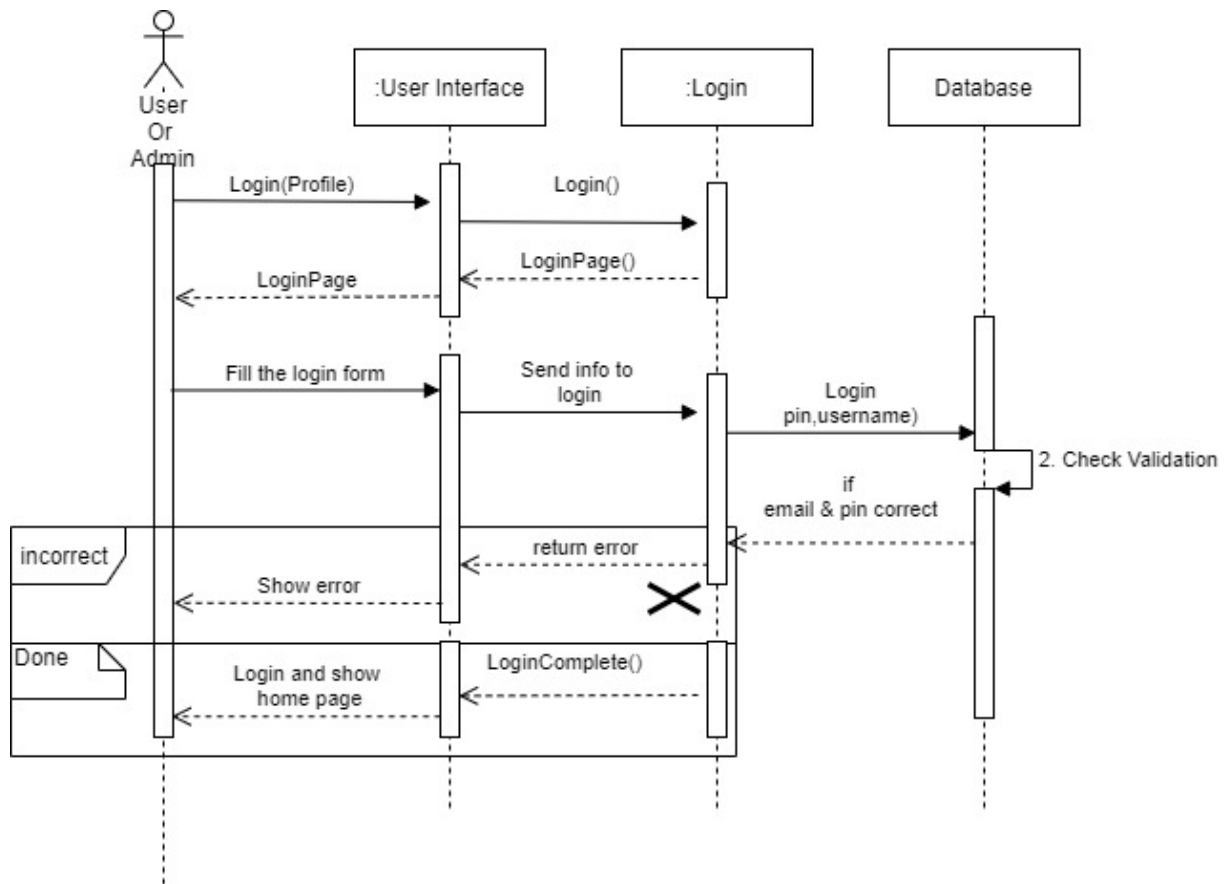


Figure 3.12: Sequence diagram for Login

3.3.3 Post Items

only Admin can be post items.

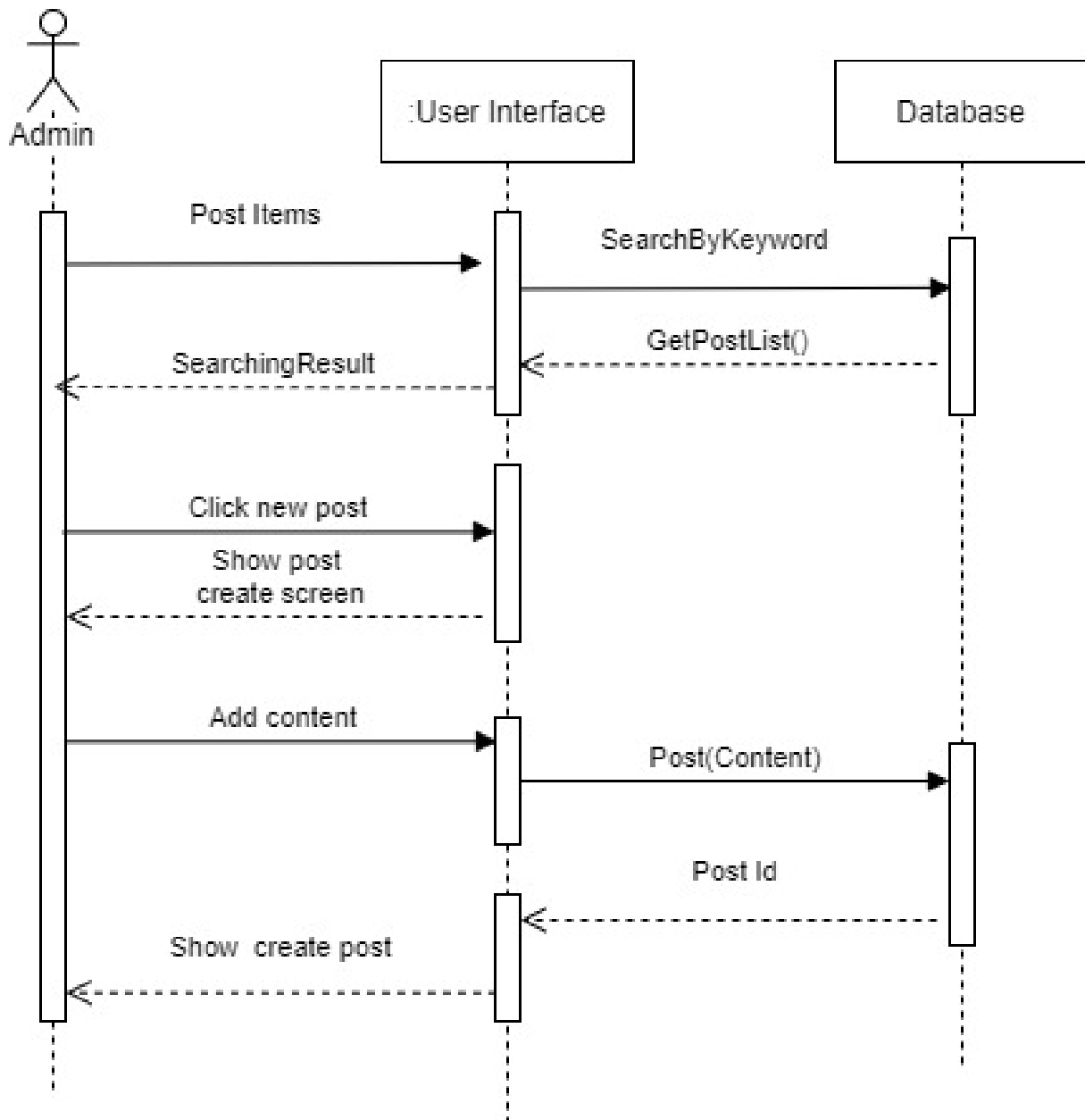


Figure 3.13: Sequence diagram for post items

3.3.4 Order items

User can be order items anytime anywhere.

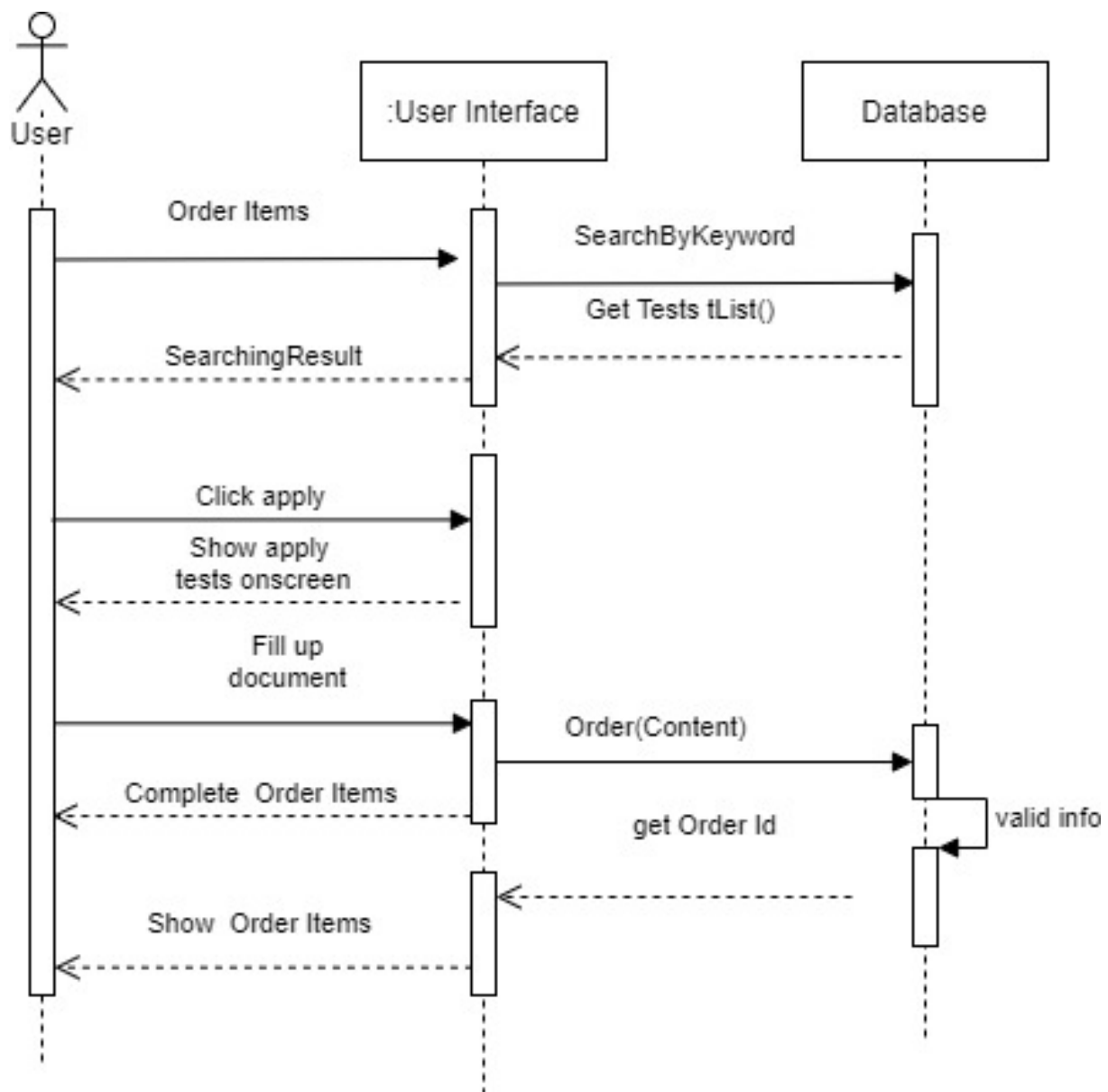


Figure 3.14: Sequence diagram for Order items

3.3.5 View Chart list

User can be view chart list.

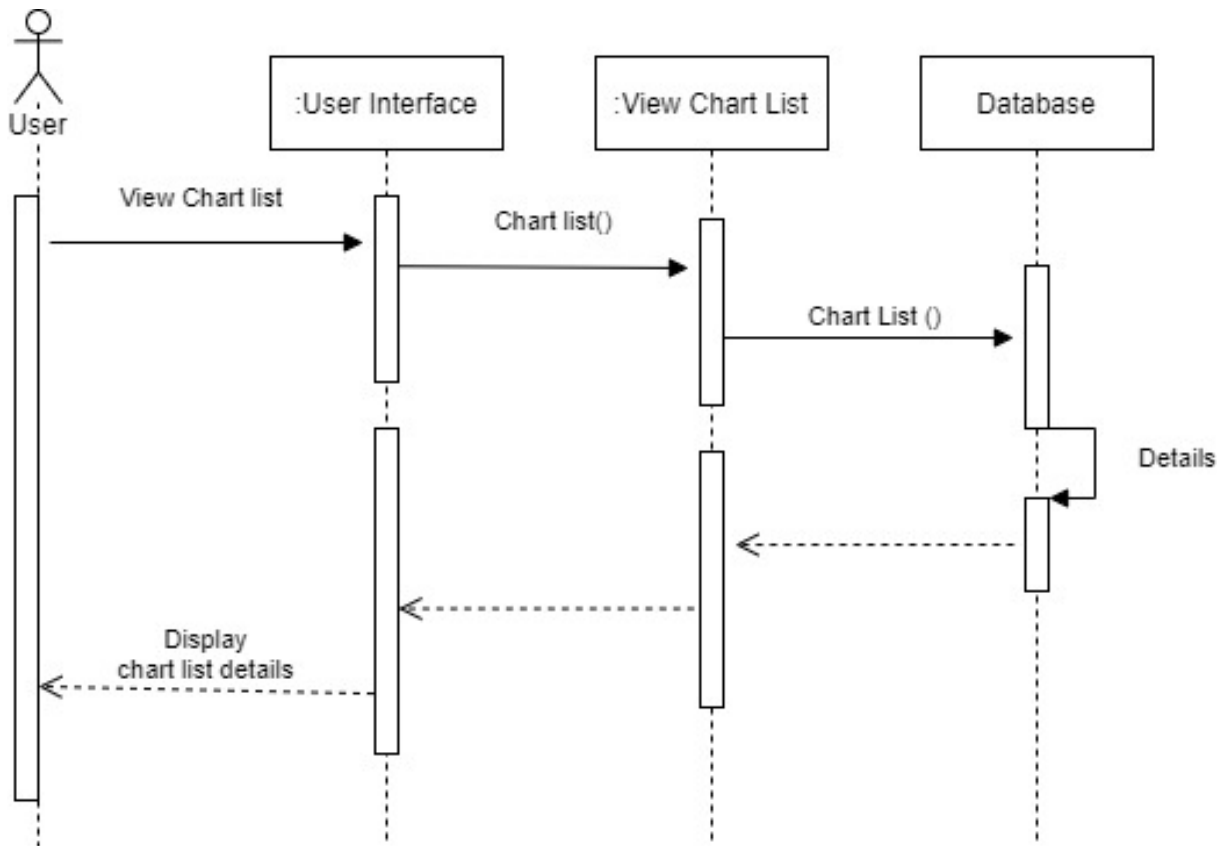


Figure 3.15: Sequence diagram for View Chart List

3.3.6 View previous order

User can be view previous order items.

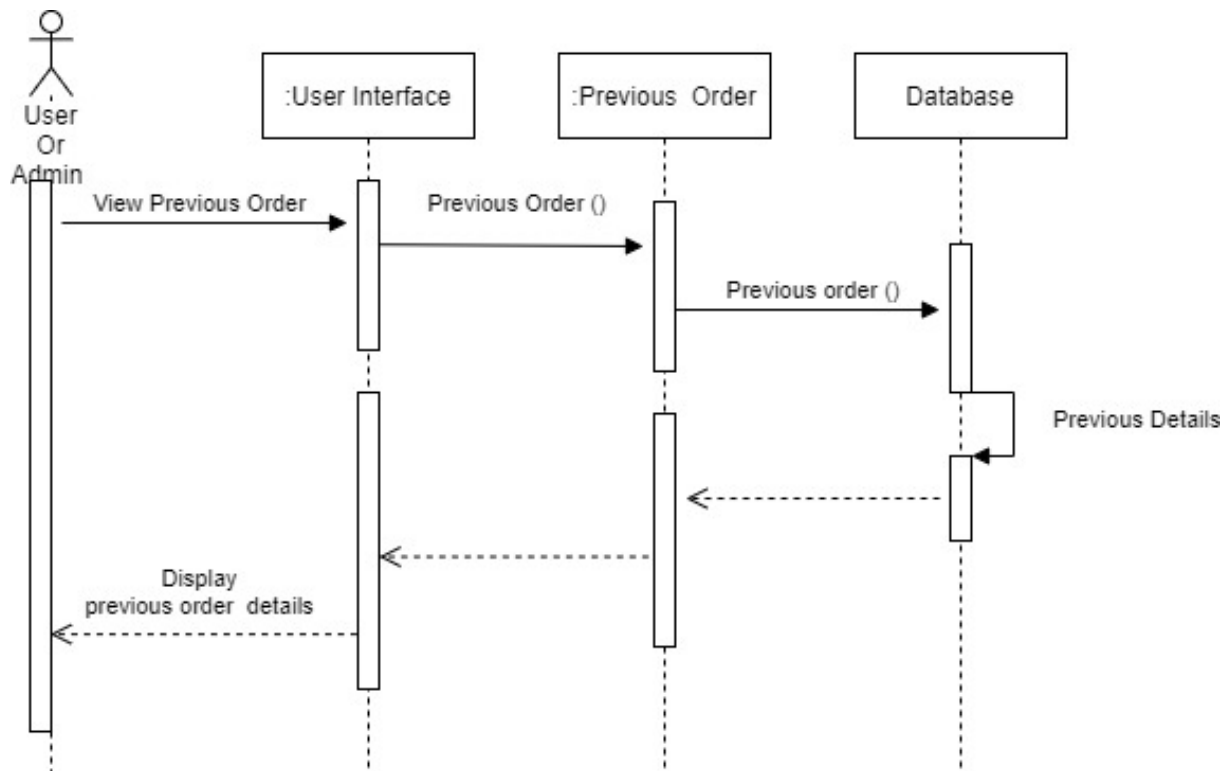


Figure 3.16: Sequence diagram for previous order items

3.3.7 View profile

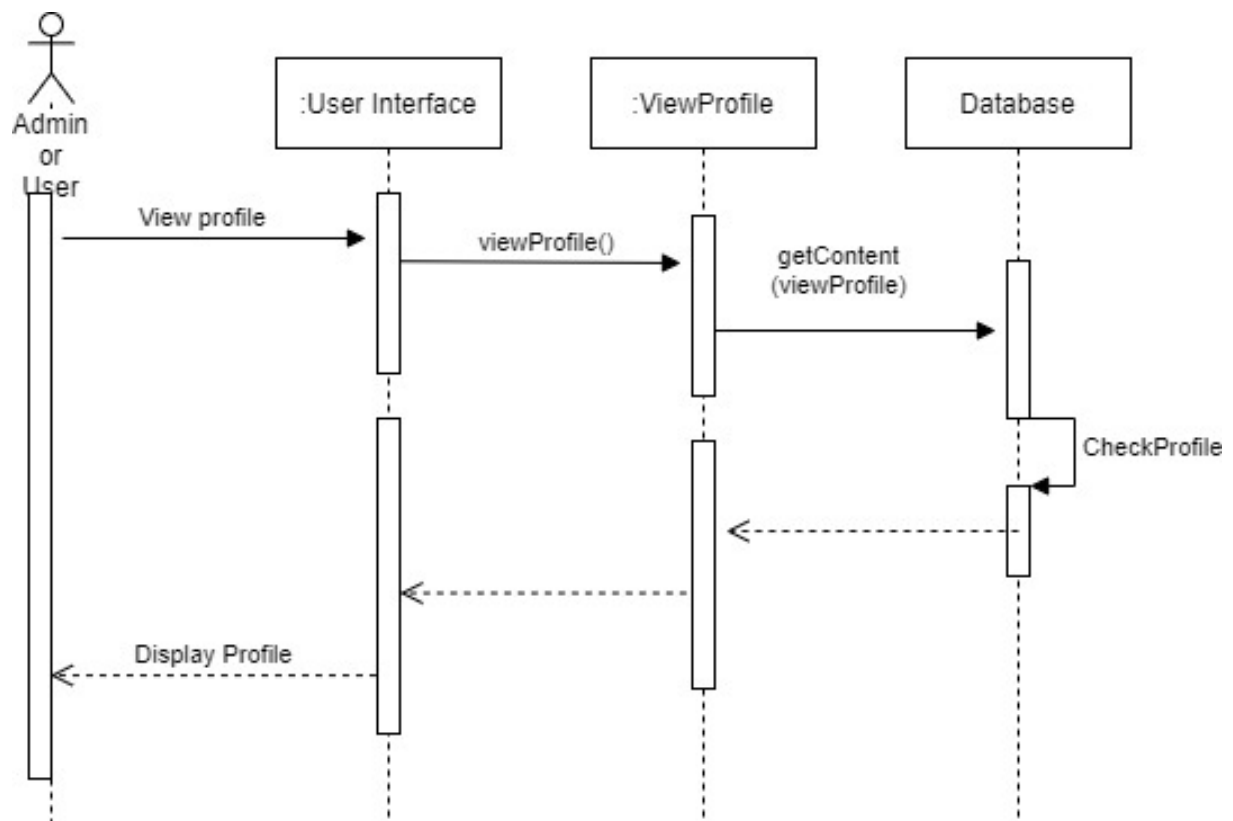


Figure 3.17: Sequence diagram for profile

3.3.8 Update profile

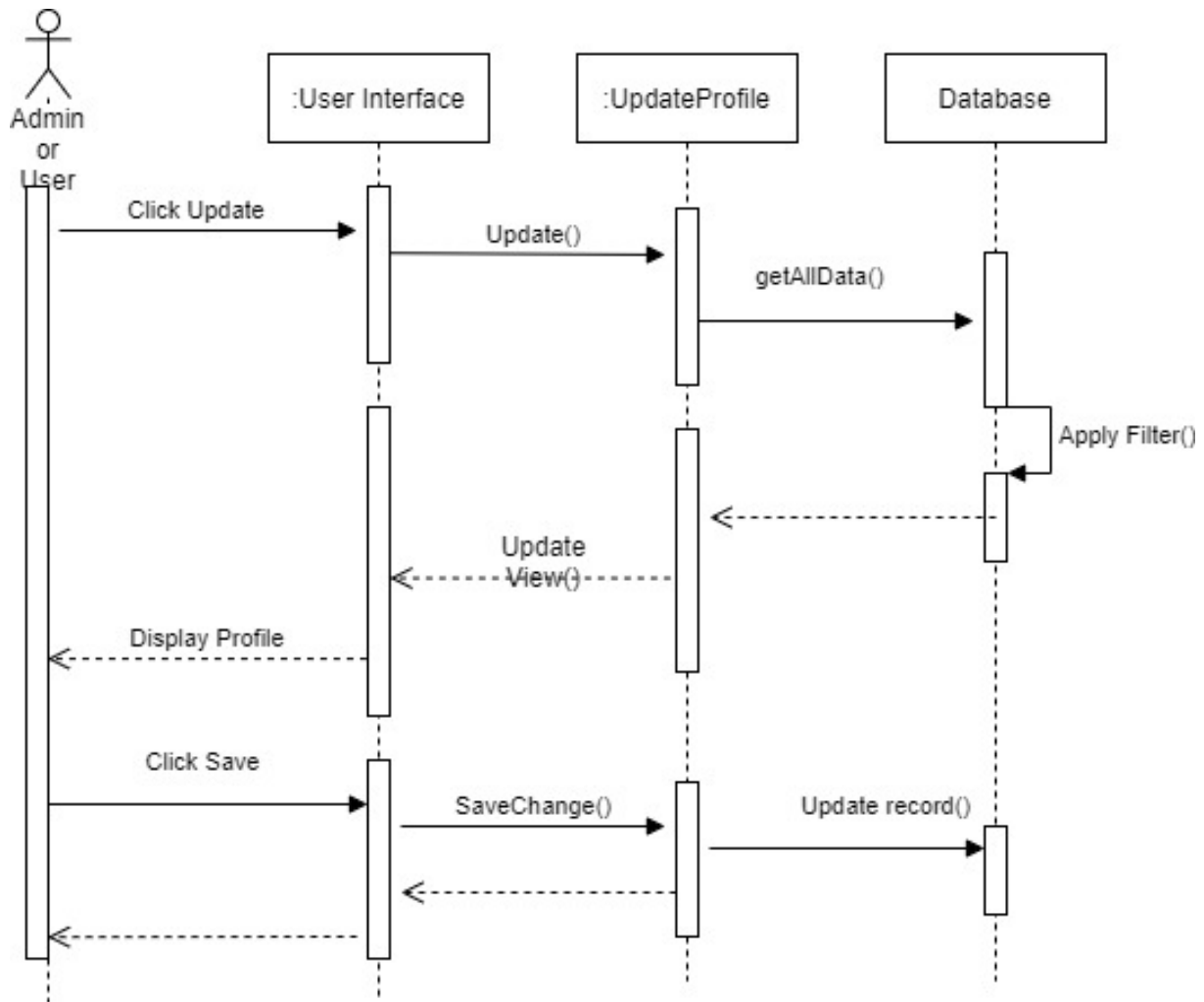


Figure 3.18: Sequence diagram for profile

3.3.9 Delete profile

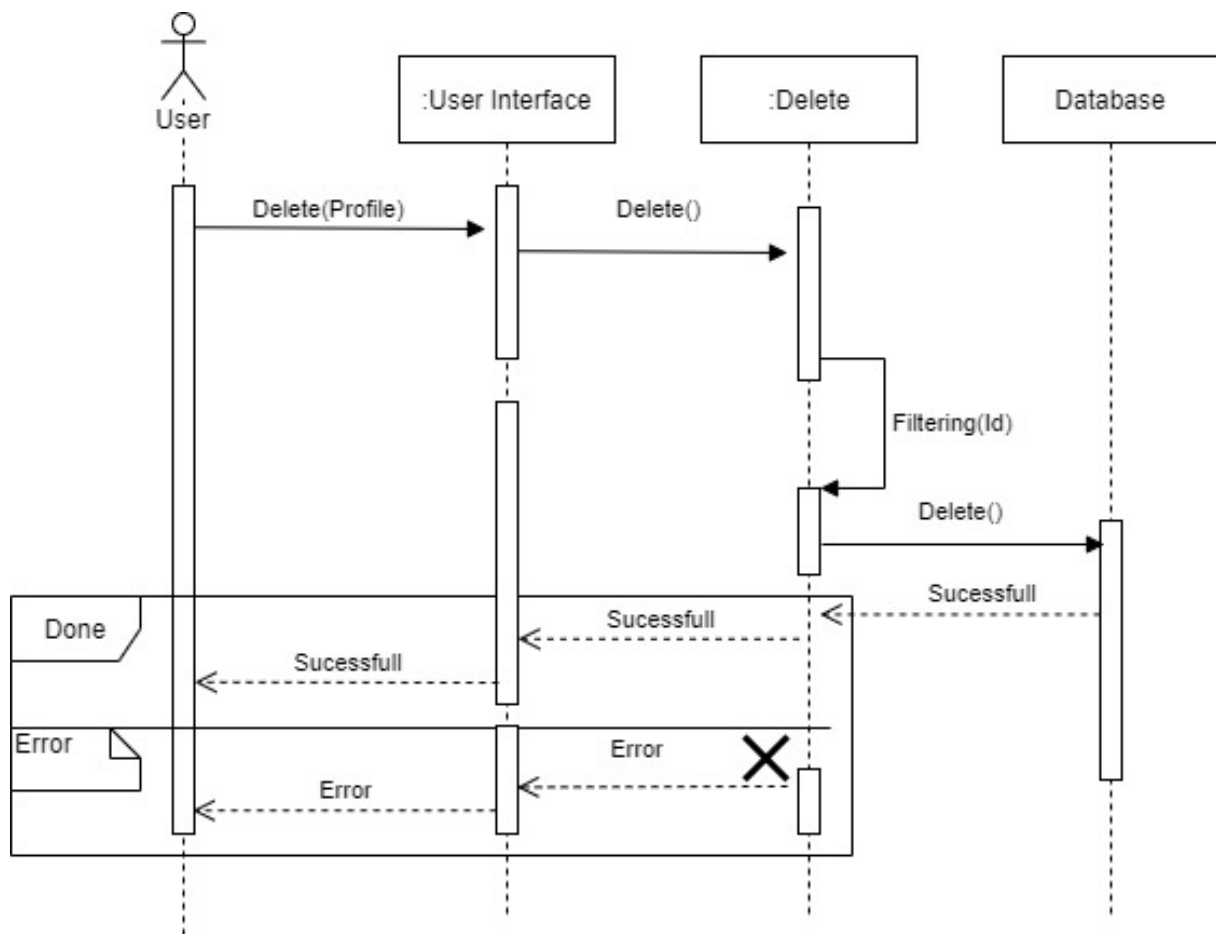


Figure 3.19: Sequence diagram for profile

Chapter 4

System Design Specification

4.1 Class Diagram

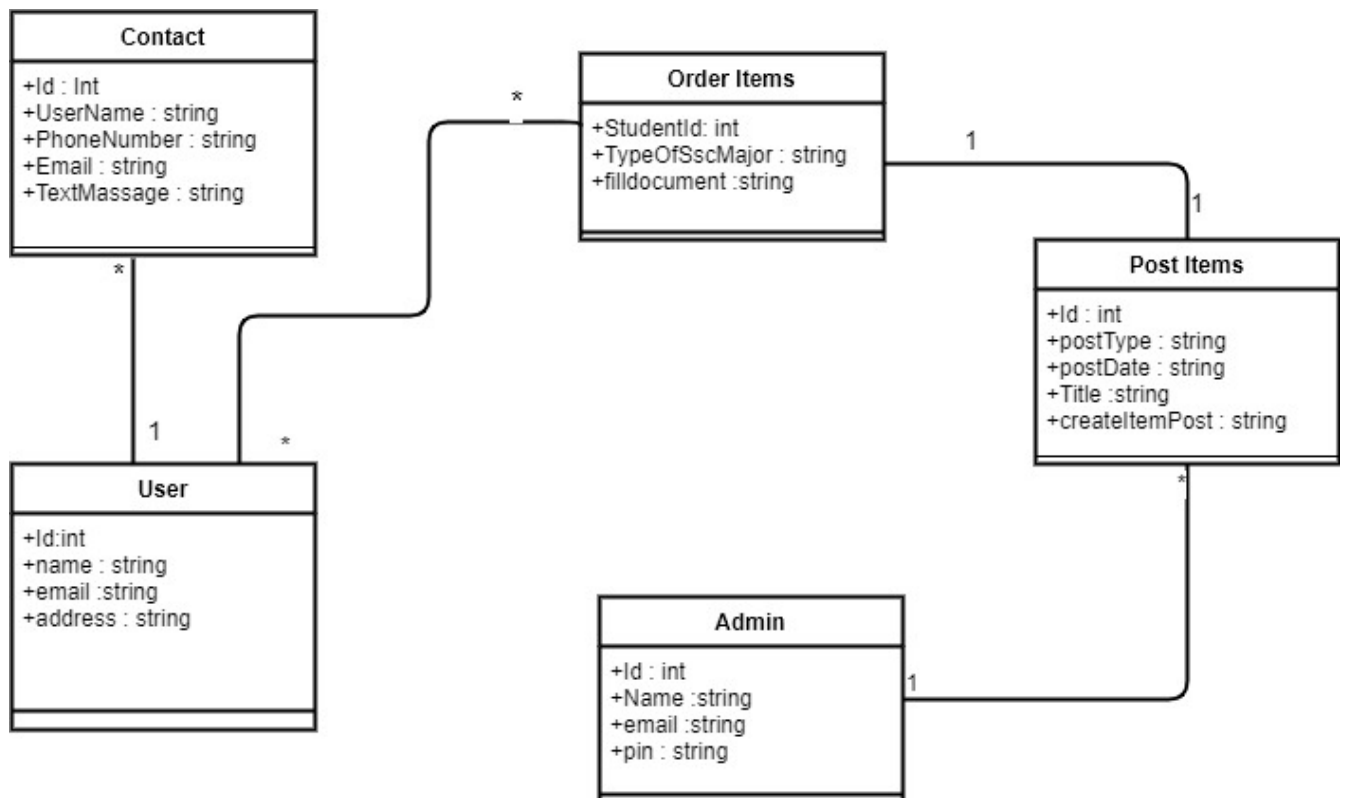


Figure 4.1: Class diagram for "E-Buy-Garden"

4.2 Development tools and technology

To develop software some gear are had to be used. And there is too many types of equipment for growing software program. For internet utility developers, there are so many tools and strategies to make the improvement section easy. In my challenge the below equipment we are going to use.

4.2.1 User Interface Technology

A suitable user interface can help to hold the user into the system. The primary point of "UI" in a machine is how clean is to apply and how simple it's miles. "UI" linked the user and gadget. "UI" refers to the shape of content, Action Button, Images, and so forth.

4.2.1.1 Programming Language

ASP.NET MVC5 Framework

ASP.NET MVC 5 is a framework that implements the Model-View-Controller (MVC) architecture pattern. I will be referring to the MVC framework that implements the MVC sample. MVC is an architecture pattern that stands for Model-View-Controller.

My definition of MVC is summarized as follows:

- **Model:** The model manages the records for the utility. Each model commonly represents one or more tables inside a database.
- **View :** The view carries the visible illustration of the software. In websites, this is typically completed with HTML, CSS, and JavaScript.
- **Controller :** A controller updates each model and views. It accepts input and plays the corresponding update. For instance, a controller can replace a model by means of converting the attributes of a person in a online game. It may additionally adjust the view by means of showing the up to date man or woman in the sport.

4.2.1.2 JQuery

JQuery is a JavaScript library. It is a fast JavaScript Library that simplifies HTML document traversing, occasion handling, animating. In our task, we use only a few JQuery capabilities.

4.2.1.3 Bootstrap

In my project, i used bootstrap for the front-stop design. Bootstrap is a free and open source front-stop Web framework. This framework is developed via CSS and JavaScript. It's a browser-friendly framework.

4.2.1.4 CSS

There are many technologies to displaying HTML elements. Html elements can seem in lots of ways. Is goods practice to apply outside CSS. Internal and Inline CSS not for a assignment and it also not an awesome exercise.

4.2.2 Implemented tools and platform

So just like the gadget and generation additionally some systems are wanted to extend software program applications. The task we use a few systems to construct the device. We are using a bellows system and systems.

4.2.3 Editor

Microsoft Visual Studio 2019

With Visual Studio 2019, you may get exceptional-in-class equipment and offerings for any developer, any app, and any platform. Whether you are using Visual Studio for the developing time.

- **Develop:** Stay targeted and productive with progressed performance, on the spot code cleanup, and higher seek outcomes.
- **Collaborate :** Enjoy natural collaboration via a Git-first workflow, real-time editing and debugging, and code opinions right in Visual Studio.
- **Debug :** Highlight and navigate to precise values, optimize reminiscence use, and take automated snapshots of your utility's execution.

4.2.4 Entity Framework

Entity Framework is Object Relational Mapper (ORM). This ORM presents developers to automate the mechanism of storing and gaining access to statistics from the database. I use this framework in my mission.

4.2.5 Database Server

MSSQL Server 2017

SQL is a special-purpose programming language designed to handle data in a relational database management system. A database server is a computer program that provides database services to other programs or computers, as defined by the client-server model. Therefore, a SQL Server is a database server that implements the Structured Query Language (SQL).

4.2.6 Web Server

NET Run-time

A web server is a system that delivers content material or offerings to end-users over the internet. In my project uses the .net Localhost server. This localhost is free and open-source software to .net frameworks. It has many features and a variety of use.

Chapter 5

System Test

5.1 Testing Features

Feature Testing is consult with making adjustments in software program machine to add new capabilities or to make changes existing functions. A take a look at the set is want to write for test the function and function of the device. All feature and feature are not the same.

5.1.1 Feature to be tested

Here,

1 = Low Priority

2 = Medium Priority

3 = High Priority

5.1.1.1 Part of Student

Features	Priority	Description
Order Items	2	Order items submit facts have to be inserted properly
See Order items	1	User can capable of view the Order Details
See details	1	User can capable of view the order Details

5.1.1.2 Part of Admin

Features	Priority	Description
Registration	3	Admin must be authenticated through login
Login	3	Admin must be authenticated through login
Logout	2	The session needs to be destroyed after logout
Post items	2	Post items submit facts have to be inserted properly
See Post items	1	Admin can capable of view the post items Details
See details	1	Admin can capable of view the order it msDetailse
View Profile	3	Admin can able to see his profile
Update profile	3	Admin can be update his profile
Delete profile	1	Admin can be delete his profile

5.2 Testing Strategy

Test Strategy is a plan for outlining the trying out technique. It's a guiding principle observed to gain the test goal and execution of test kinds. Test strategy work with check goal, take a look at surroundings, take a look at approach, automation equipment and approach, and hazard evaluation.

5.2.1 Test approach

Test technique means implementation of take a look at method. It defined all take a look at plans and test layout.

Test approach has techniques:

- **Preventative approach:** In the preventative technique, tests are designed before the software program development.
- **Reactive approach:** In Reactive approach, assessments are designed after software program development.

5.2.2 Pass / Fail Criteria

It will set the pass and fail standards.

- If the device crash then it will not be considered as a pass case.
- If any gadgets pass a hundred instances, then it will likely be considered as skip criteria handiest.
- If information can't be displayed to the application properly, then it is also to be taken into consideration as fail criteria.

5.2.3 Testing Schedule

Test Phase	Time
Testing plan create	1 Week
Test specification	2 Week
Unit testing	During development time
Component test	1 Week
Integration testing	1 Week
Validating use cases	1 Week
Testing user interfaces	1 Week
Load testing	1 Week
Performance testing	1 Week
Release to production	1 Week

5.2.4 Trace-ability Matrix

5.2.4.1 Part of User

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR	Category	Requirement Description	Use Case	Test Case	Comment
BR-1	Functional	Order for Items	3.1.4	5.4.4	
BR-2	Functional	Items Details	3.1.5	5.4.5	
BR-3	Functional	Previous history	3.1.6	5.4.6	

5.2.4.2 Part of Admin

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR	Category	Requirement Description	Use Case	Test Case	Comment
BR-1	Functional	Create(Profile)	3.1.1	5.4.1	
BR-2	Functional	Login	3.1.2	5.4.2	
BR-3	Functional	Post for items	3.1.3	5.4.3	
BR-4	Functional	order items Details	3.1.5	5.4.5	
BR-5	Functional	Previous history	3.1.6	5.4.6	
BR-6	Functional	View Profile	3.1.7	5.4.7	
BR-7	Functional	Update Profile	3.1.8	5.4.8	
BR-8	Functional	Delete Profile	3.1.9	5.4.9	

5.3 Testing Environment

Testing environment manner put together the environment that assists in execution the take a look at with software, hardware and network configure. Test mattress or take a look at surroundings is configured as according to the need of the application underneath check.

For construct the environment of testing, a few key location desires to setup:

- Test records
- Database server
- Client's running device
- Front cease jogging environment
- Browser
- System and application
- Network

People are involved with take a look at surroundings setup:

- System Admins

- Developers
- Testers

5.4 Test Cases

The test case method set some regulations and rules which it can be decided whether they may be capable of meet the requirements successfully. The test case method can be to locate the troubles within the requirements or layout of the application.

In the take a look at the case, there have some factors. Such as:

- Test Case ID
- Test Scenario
- Prerequisite
- Test Data
- Expected Result
- Actual Result
- Etc

5.4.1 Create Profile

Test case 1		Test case name: Create Profile		
System : Admin		Subsystem : User		
Designed by: Md Raihanul Kabir		Designed date: 01-April-2020		
Executed by:		Executed date:		
Short description: Admin can create a profile and give it to the scholar owner.User inputs the device by using this profile.				
Pre-Conditions: <ul style="list-style-type: none">• User type must be a admin.• User must be authenticated.• Admin have admin records.				
Step	Action	Response	Pass/Fail	Comment
1	All required fields aren't crammed yet	Fields have not been completed yet	Fail	
2	All enter filed is stuffed up by using the scholars	Adding admin is successful	Pass	
Post-Condition : admin profile is created.				

5.4.2 Login

Test case 2		Test case name: Login		
System : Admin		Subsystem : User		
Designed by: Md Raihanul Kabir		Designed date: 01-April-2020		
Executed by:		Executed date:		
Short description : The registered customers need to login to the software And before that our appli- cation will test the authentication and authorization.				
Pre-Conditions: <ul style="list-style-type: none">• Users are constantly redirected to the login web page if they have no longer authenticated with the aid of our utility.• Assume that the email is rifat@gmail.com and password is “123456”				
Step	Email and password	Response	Pass/Fail	Comment
1	rifat@gmail.com and pin ”124876”	Invalid	Fail	
2	rifat@gmail.com and pin ”123456”	Successfully login into the application	Pass	
Post-Condition : Admin will efficaciously login to the utility.				

5.4.3 Post items

Test case 3	Test case name:Post items			
System : Admin	Subsystem :			
Designed by: Md Raihanul Kabir	Designed date: 01-April-2020			
Executed by:	Executed date:			
Short description:Admin supplied all required records for items assessments post then publish the post.				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be Admin.				
Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled	Invalid	Fail	
2	Filled up all required fields	Post is Successful	Pass	
Post-Condition : Post for items is Successful.				

5.4.4 Order items

Test case 4		Test case name: Order Items		
System : Admin		Subsystem : User		
Designed by: Md Raihanul Kabir		Designed date: 01-April-2020		
Executed by:		Executed date:		
Short description: For follow order assessments first off scholar need to provide all required information then put up the publish.				
Pre-Conditions: <ul style="list-style-type: none">● Users must be authenticated.● User type must be people.				
Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled	Invalid	Fail	
2	Filled up all required fields	Post is Successful	Pass	

Post-Condition : Order for items is Successful.

5.4.5 View Chart List

Test case 5		Test case name:View Chart List		
System : Admin		Subsystem : User		
Designed by: Md Raihanul Kabir		Designed date: 01-April-2020		
Executed by:		Executed date:		
Short description:Admin or user can able to view chart list details				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be registered or admin.				
Step	Action	Response	Pass/Fail	Comment
1	chart list details data is shown properly.properly.	All require data is appear	Pass	
Post-Condition : order assessments statistics is displaying to Admin or student.				

5.4.6 View Previous Order

Test case 6	Test case name:View Previous Order
System : Admin	Subsystem : User
Designed by: Md Raihanul Kabir	Designed date: 01-April-2019
Executed by:	Executed date:
Short description:Admin can able to view order details	
<div>Pre-Conditions:</div> <div><ul style="list-style-type: none">Users must be authenticated.User type must be admin.</div>	

Step	Action	Response	Pass/Fail	Comment
1	Order details data is shown properly.properly.	All require data is appear	Pass	
Post-Condition : Order assessments statistics is displaying to Admin .				

5.4.7 View Profile

Test case 8	Test case name:View Own Profile			
System : Admin	Subsystem : User			
Designed by: Md Raihanul Kabir	Designed date: 01-April-2020			
Executed by:	Executed date:			
Short description: Admin and User as their own profile and they could view their own profile				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be admin.• Admin have a profile				
Step	Action	Response	Pass/Fail	Comment
1	Profile is not showing.	There is no pro- file to appear	Fail	
2	Profile is showing	Profile is appear	Pass	
Post-Condition : Displaying to Admin can able to view his personal profile				

5.4.8 Update Profile

Test case 9	Test case name: Update Profile			
System : Admin	Subsystem : User			
Designed by: Md Raihanul Kabir	Designed date: 01-April-2020			
Executed by:	Executed date:			

Short description: Admin and User has their personal profile, and they could view their personal profile

Pre-Conditions:

- Users must be authenticated.
- User type must be admin.
- Admin and user have a profile

Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled yet.	Fields have not been completed yet	Fail	
2	All input filed is filled up by the apartment owner	The fields have been completed and the post also	Pass	

Post-Condition :Admin edited their own profile

5.4.9 Delete Profile

Test case 10		Test case name:Delete Profile		
System : Admin		Subsystem : User		
Designed by: Md Raihanul Kabir		Designed date: 01-April-2020		
Executed by:		Executed date:		
Short description:Admin go to their profile, delete the profile.				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be or admin.• Admin and have a profile				
Step	Action	Response	Pass/Fail	Comment
1	Go to profile and hit the “Delete” button.	The profile is delete	Pass	
Post-Condition :Admin delete their own profile				

Chapter 6

User Manual

6.1 Home page (E-Buy-Garder)

Each individual wants to get keep of the excellent of training to advantage his or her goals. The net site offers a big array of educational options to students from conventional to present day research. The second a scholar opens this internet web page, he is certain to get sucked into the variety of courses to be had in his subject matter of hobby.

Now I will offer screenshots of the web page.

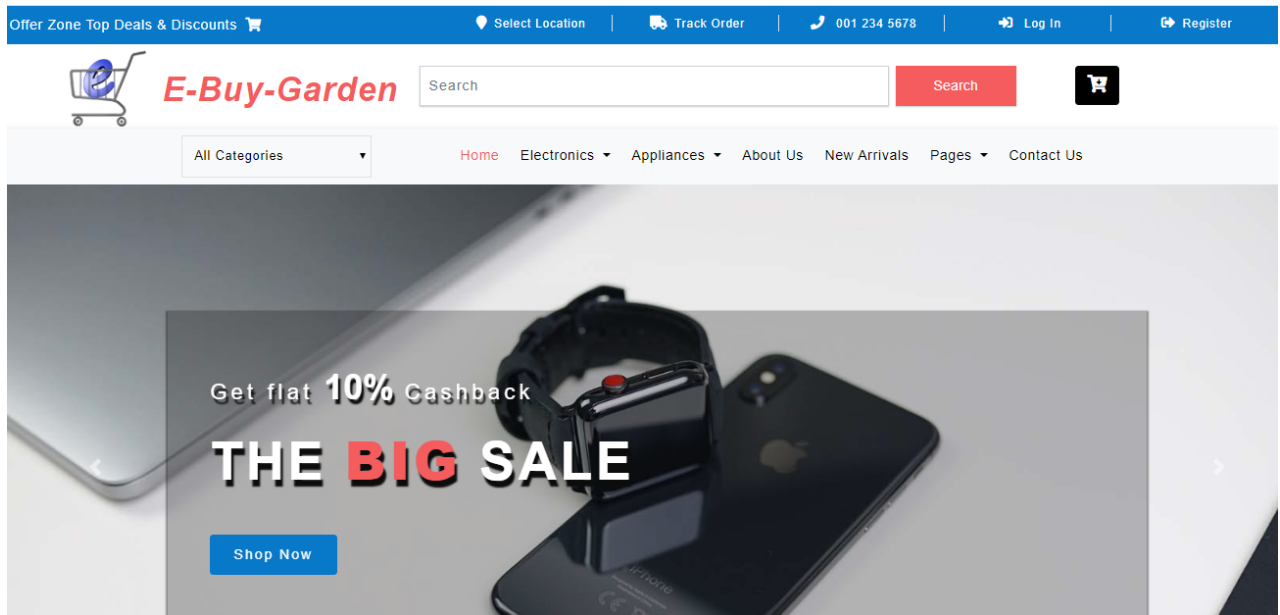


Figure 6.1: E-Buy-Garden

6.2 Create Profile

Users have no longer signed up before. Then, to start with, he has to register in our utility. The user ought to log in first to get access to our utility. The admin will provide verify the user with an email and password through which the consumer can access the machine.

Now I will offer screenshots of the web page.

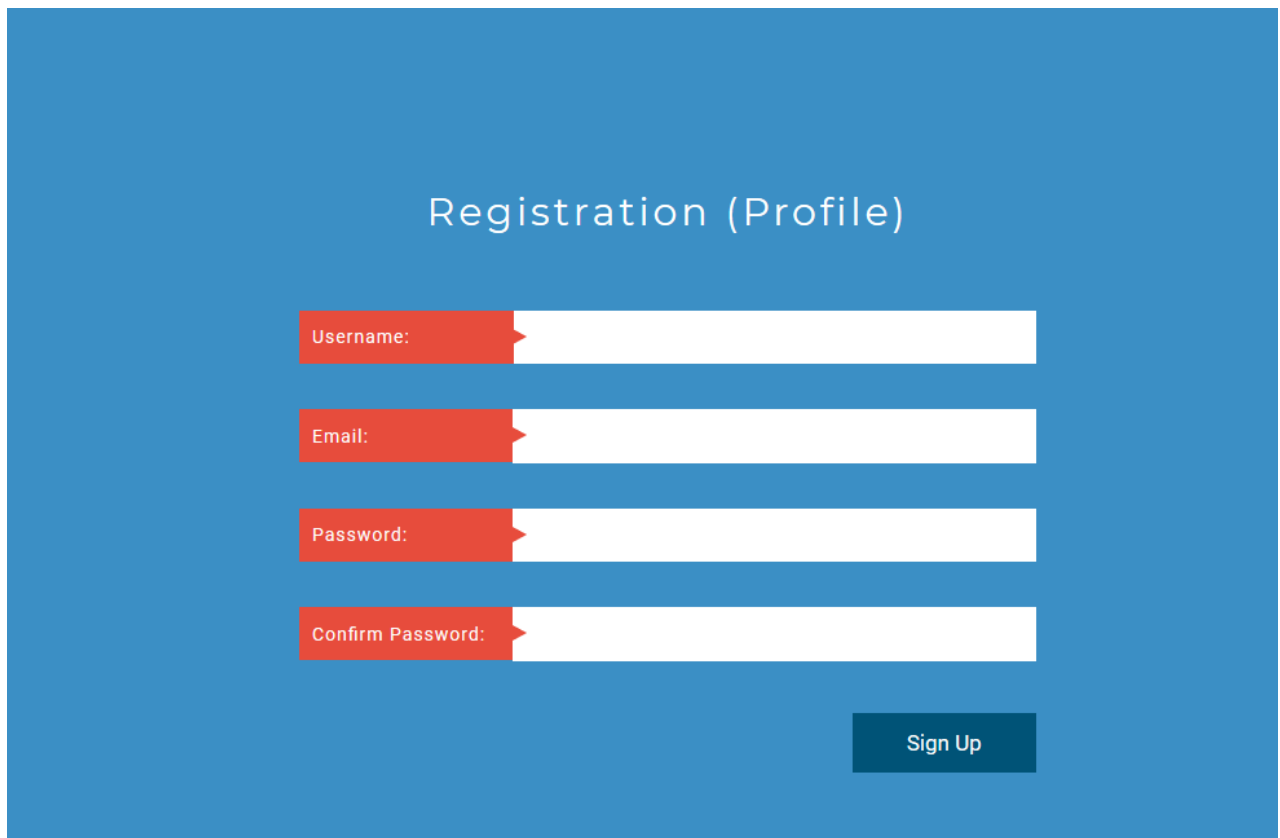
The image shows a web form titled "Registration (Profile)" on a blue background. The form contains four input fields, each with a red label box on the left: "Username:", "Email:", "Password:", and "Confirm Password:". Each input field is a white rectangle. Below the "Confirm Password:" field, there is a dark blue button with the text "Sign Up" in white. At the bottom center, there is a faint red text link that says "Back to home".

Figure 6.2: Admin Registration form

6.3 Login Profile

First of all, the administrator has to login to the software program to use this software. Administrators and college customers should log in to the tool the usage of electronic mail and password. User type should be an admin or registered, who is registering at the utility most effective the candidate login at the website. And additionally, that registering man or woman may be given on the next educative relative records from this utility.

Now I will offer screenshots of the web page.

SIGN IN This is a required field

E-mail

Password

SIGN IN

[f](#) [t](#) [RSS](#)

[Don't have an account?](#)

Figure 6.3: login form

6.4 Admin Profile

Admin can able to seeing their personal profile. Admin can be edit, replace delete there profile and additionally that admin can publish-admission check. Admin can delete any user account, all pastime also can seeing admin. Admin may be assessing all interest, and the admin approves on all information authentication.

Now I will provide the screenshot of the page below.

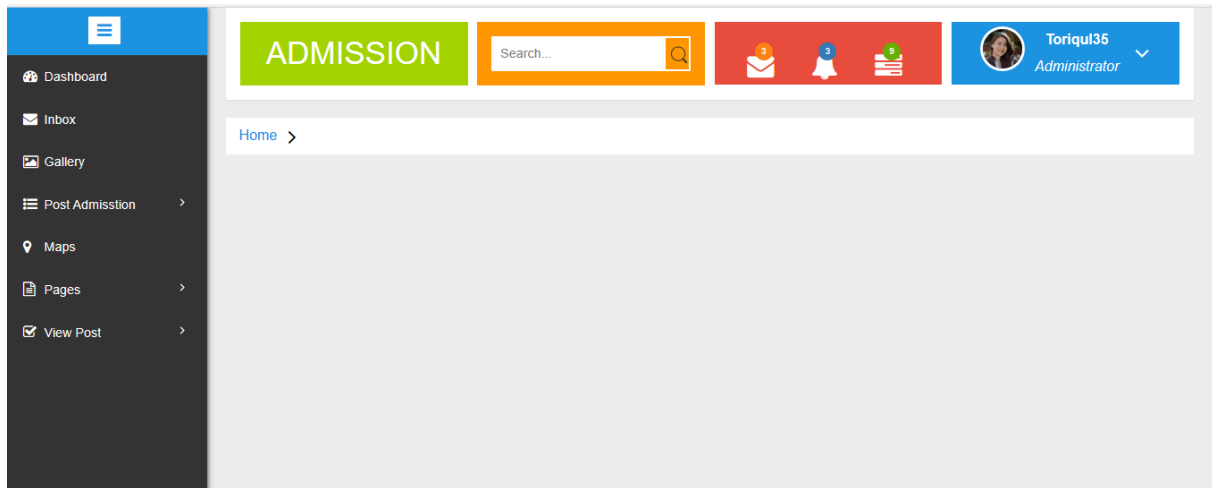


Figure 6.4: Admin Profile Page

6.5 Registration

Any User can practice for any product. For post the items they need to offer some statistics. The website online offers to some assisting statistics on first-rate places for study. Now I will provide screenshots of the page beneath.

Please fill Out Carefully for Admission

Full Name *	Enter your full Name ?	
Father Name *	Your father name ?	
Mother Name *	Your mother name ?	
Date of Birth *	--Select-- Day	--Select-- Month Enter Year Year
Gender *	--Select--	
E-Mail Address *	Enter your email address?	
Cell Number *	Your mobile number ? Mobile	Optional Telephone
Address *	Street lline 1 ? Street Address	Street lline 2 ? Street Line 2
	Name of City ? City	Name of Area ? State / Province
	Area Code ? Postal / Zip Code	Your Country ? Country

Figure 6.5: Registration Fill

6.6 Our location

Any People may be the live chat for helping facts about E-buy-Garden. We awareness at the satisfactory location for any public.

Now I will provide screenshots of the page beneath.

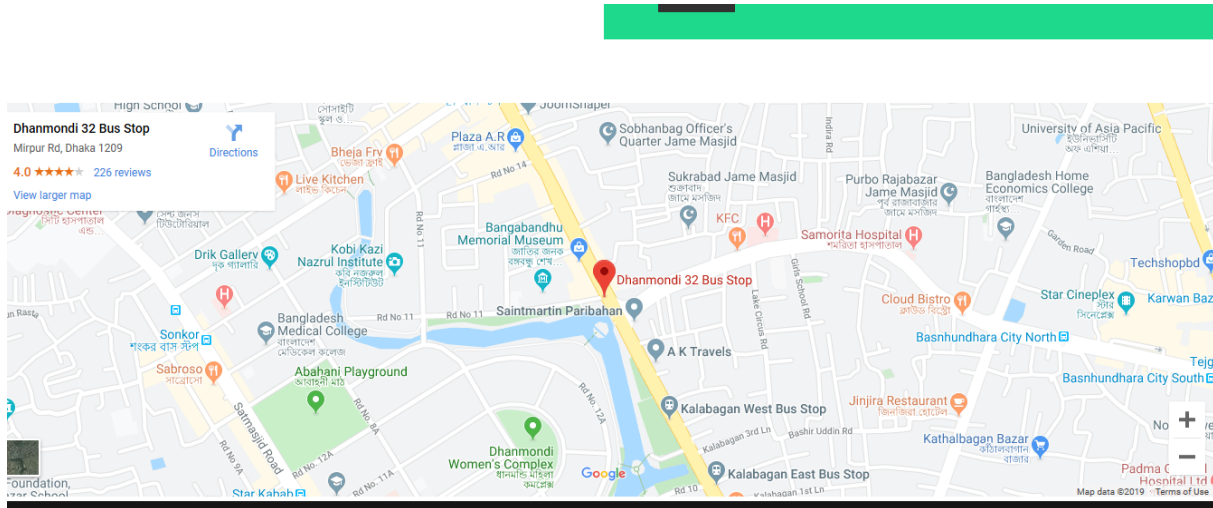


Figure 6.6: Location details

Chapter 7

Conclusion

7.1 Git Repository Link

7.1.1 GitHub Link :

[<https://github.com/Toriquel35/Electric-Commerce>]

This is a git repository hyperlink which my project uploaded. Anyone can see all work pastime, I use to asp.Net MVC and also use it to Entity framework. My paintings station is for the editor Visual Studio 2019 localhost server. If any character inquisitive about the software who can also follow my pattern.

7.2 Critical Evolution

I have commenced the improvement component in February. Like some other task, you need to position your very tough work, persistence, determination, and awareness to finish the challenge. There are many factors involves while an undertaking going to the improvement segment, including pleasurable the stakeholder requirements properly, etc. A proper necessities assessment then it allows the development phase plenty. We examine the requirements of our project firstly then we are going to the following step layout specification.

It's no longer a smooth undertaking to finish the mission but if it to be completed then the assignment isn't always the and in fact. The database is a vital thing of any software gadget. That's why within the next step we are focusing to create the database layout.

7.3 Limitations

For growing this assignment, I have faced a few boundaries. Now I will describe those in brief.

- **Payment Method :** In this software, there are not having any fee techniques immediately. So the person can't make any price transaction through our machine.
- **Only Web Version:** My application is the most effective internet-based device.

7.4 Obstacles Achievements

When an undertaking is developing then you certainly have confronted many obstacles and people's boundaries create traumatic conditions and you've to triumph over one's worrying conditions. Without demanding situations you can observe whatever, the mission comes with opportunity and proper here your exchange to grave this opportunity. The system evaluation and database format that we research properly through the way of doing this project. Our supervisor allows us in every step of this venture.

Also, there are a few boundaries and achievement in our assignment and that is below:

- **Requirements getting from stakeholders :** There are many types of stakeholders in this system and each person has one-of-a-type capability. It could be higher if we must accumulate necessities from them directly.
- **Scope Change:** When we test the necessities then some functions have been introduced and a few of functions get slicing. When it was wanted we did brainstorming for that

7.5 Future Scope

I learned lots even as finishing this project. To construct and improve this undertaking, I have met a few University in Bangladesh and fanatics. I thank all of them very plenty.

- All Bangladeshi People included this application.
- Courier service on the order schedule for user.

7.6 References

I have received some information from some platforms. Obviously I will point out those references. For making my mission a success those assets assist me plenty.

Not I will point out the names underneath.

In-text example

- Code Editors¹
- Font design²
- Database Controllers³
- Bootstrap Help in the project⁴
- Database Server⁵
- Font design of CSS⁶
- MVC .net Framework⁷
- Entity Framework⁸
- Report Writing⁹
- Layout using this project¹⁰

Footnote example:

¹ Visual studio,<https://visualstudio.microsoft.com/vs-2019>

²<https://www.w3schol.com>

³<https://www.nuget.org/profiles/Microsoft>

⁴Bootstrap,<https://getbootstrap.com/docs/4.0/getting-started/introduction/>

⁵ SQL Server,<http://www.sqlservertutorial.net>

⁶<https://www.w3schol.com>

⁷Model View Controller ,<https://www.tutorialsteacher.com/mvc/mvc-controller>

⁸ <https://www.entityframeworktutorial.net>

⁹ Latex, <https://www.overleaf.com/project>

¹⁰Layout, <https://w3layouts.com/>