Assignment 2 Cover Sheet

CASE STUDY NAME	Public Transport Reservation System
PROJECT ID	06

Group Details:

	Student Registration Number	Student Name
1	IT22115720	WICKRAMASURENDRA K.D.A.D
2	IT22252654	NAVODYA D.P.D.D
3	IT22228444	PATHIRAJA G.P.K
4	IT22152732	HERATH H.M.H.S
5	IT22255938	RATHNAYAKE R.M.D.C

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BSc (Hons) in Information Technology

IT1060 – Software Process Modeling **2022 - July**

Assignment 2 Certify Sheet

I hereby certify,

☑ The attached is my own work and no further changes will be made.

☑ I have contributed in this assignment to the best of my ability.

And I understand,

☑ I may be subject to student discipline processes in the event of an act of academic misconduct by me including an act of plagiarism or cheating.

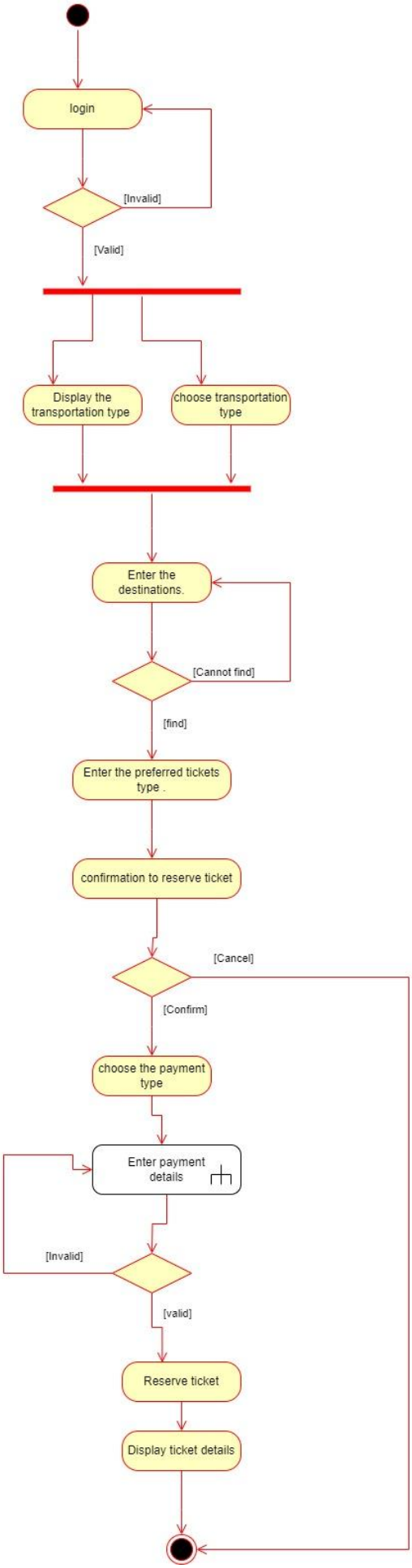
Student Details:

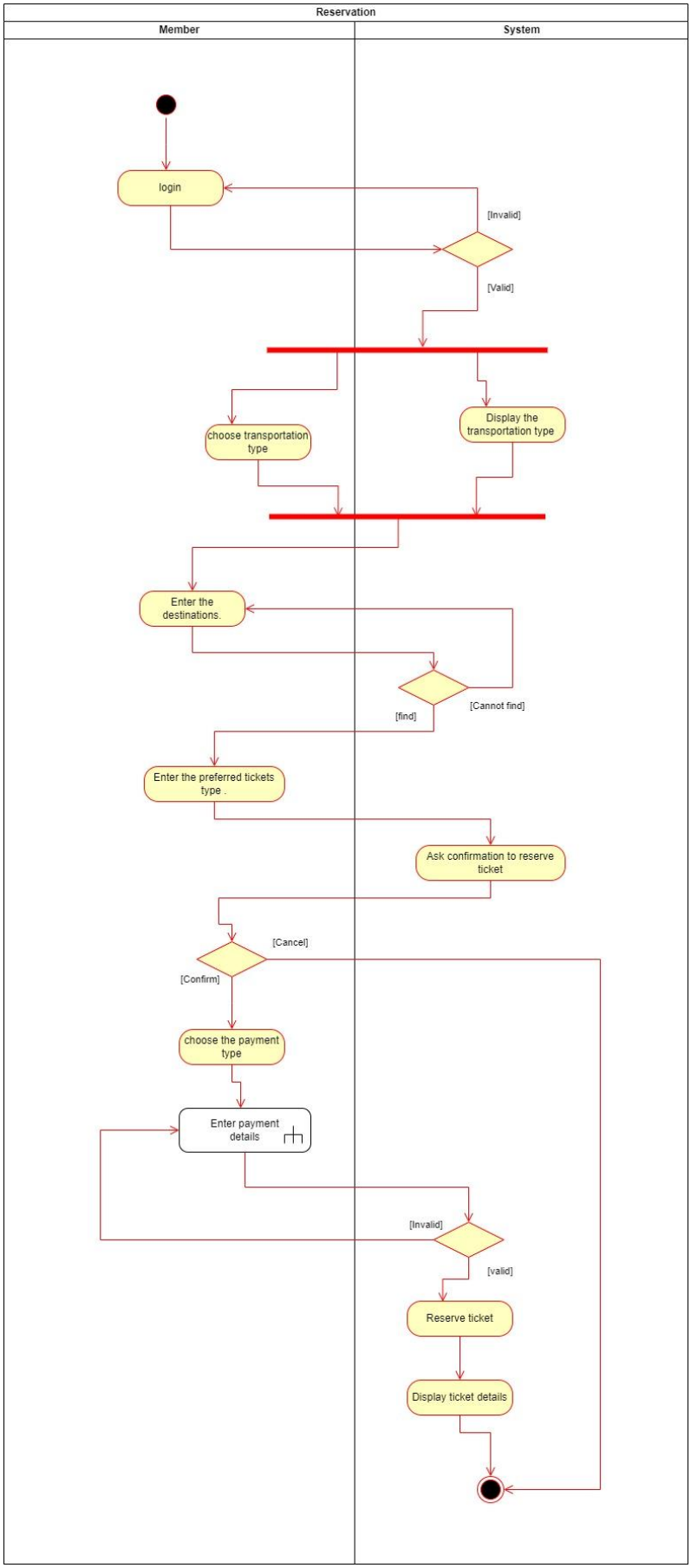
Student Name	Student Registration Number	Date	Signature
WICKRAMASURENDRA K.D.A.D	IT22115720	25/05/2023	Asanka

Student ID	IT22115720
Number	1
Name	Reserve a Ticket
Summary	The member reserves a ticket for their journey
Priority	5
Preconditions	The member has logged into the account
Post conditions	The member has reserved a ticket and received the receipt.
Primary Actor(s)	Member
Trigger	The member has chosen to purchase a ticket.

Main Scenario	Step	Action
	1	The member log in to the system
	2	The system displays transportation types.
	3	The member chooses a transportation type.
	4	The system asks where the ticket
	5	The member enters the destination
	6	System searches the route and display available ticket types.
	7	The member enters preferred ticket type.
	8	The System asks for amount of tickets to reserve.
	9	The System calculate the total price of tickets.
	10	System asks confirmation from Member to reserve tickets.

	11	System asks payment type.
	12	Member chooses payment type.
	13	System asks payment details.
	14	Member enter the payment details.
	15	System reserves tickets.
	16	System display the member's transaction and ticket details.
Extensions	**Step**	**Branching Action**
	1a	The system notifies login details are invalid.
	1b	The system notifies if invalid member login.
	5a	System cannot find the destination in the system and make suggestions
	5b	The system notifies if unavailable of tickets.
	5c	The system exit option.
	7a	The System exit option.
	10a	Member cancels the order and return to the home page.
	14a	Invalid credit or debit card details, exit to the payment details page.
Open Issues	1	Should the system ask If the member want to reserve tickets for another journey.


login
[Invalid]
[Valid]
Display the transportation type
choose transportation type
Enter the destinations.
[Cannot find]
[find]
Enter the preferred tickets type .
confirmation to reserve ticket
[Cancel]
[Confirm]
choose the payment type
Enter payment details
[Invalid]
[valid]
Reserve ticket
Display ticket details

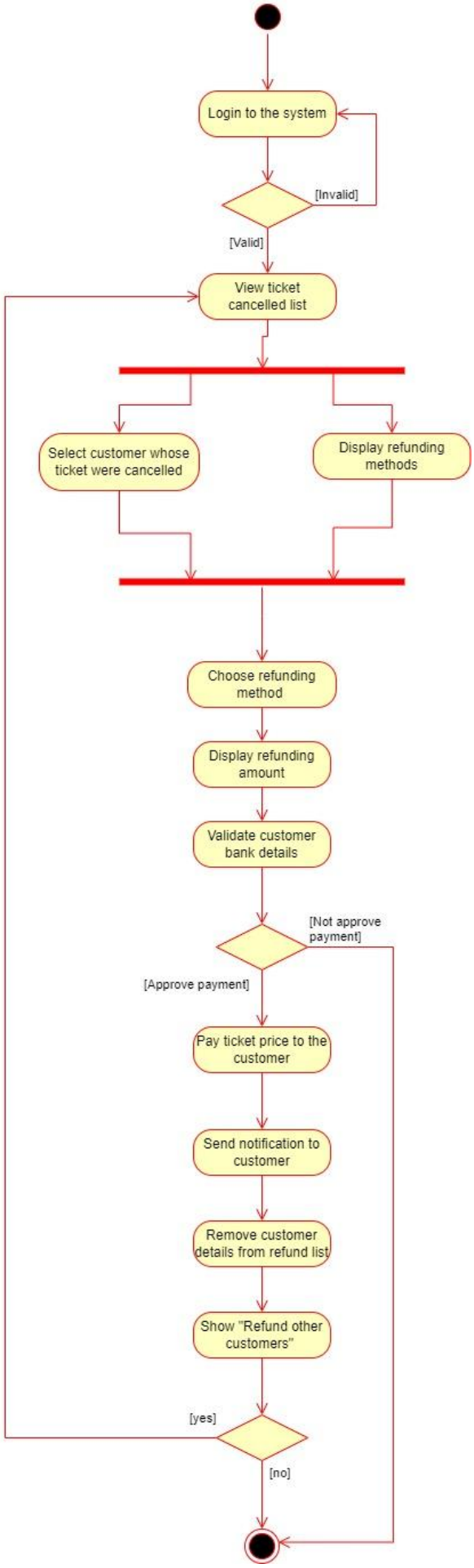

Reservation
Member
System
login
[Invalid]
[Valid]
choose transportation type
Display the transportation type
Enter the destinations.
[Cannot find]
[find]
Enter the preferred tickets type .
Ask confirmation to reserve ticket
[Cancel]
[Confirm]
choose the payment type
Enter payment details
[Invalid]
[valid]
Reserve ticket
Display ticket details

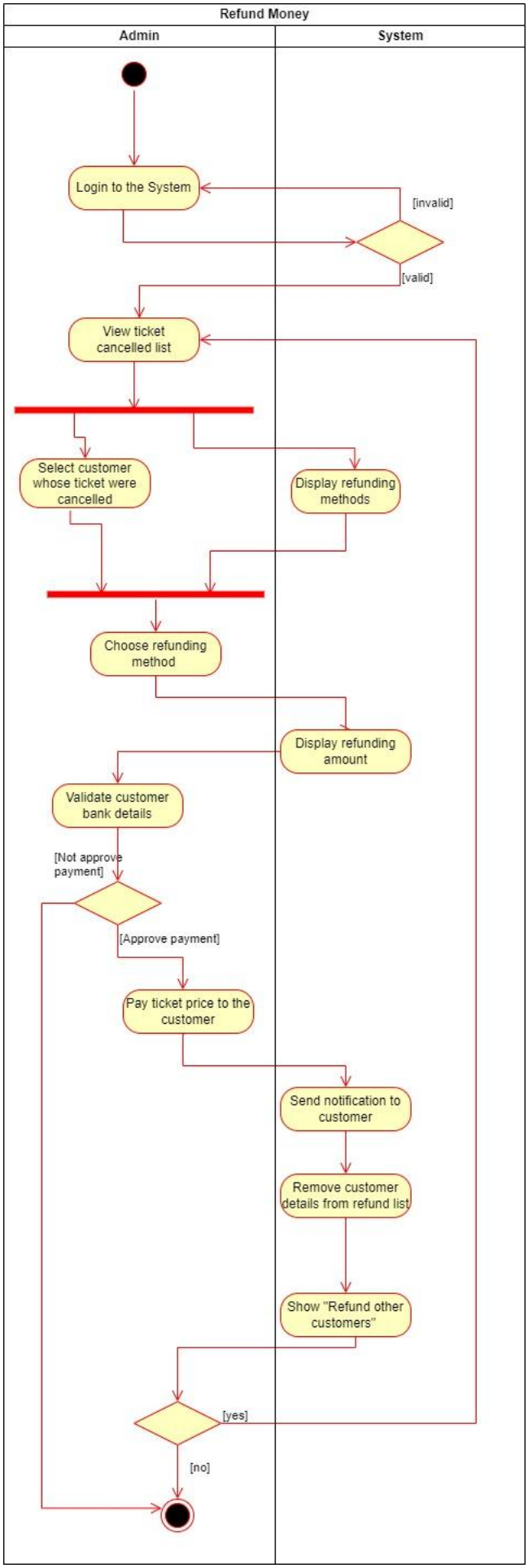
Student Details:

Student Name	Student Registration Number	Date	Signature
NAVODYA D.P.D.D	IT22252654	25/05/2023	Dhanuka

Student ID	IT22252654	
Number	2	
Name	Refund Money	
Summary	Refund money when Customer cancel his booking	
Priority	5	
Preconditions	Customer must cancel his ticket.	
Post conditions	Customer has to receive a alert that money has transferred.	
Primary Actor(s)	Admin	
Trigger	Member has chosen to cancel his booking.	
Main Scenario	**Step.**	**Action.**
	1	Admin log in to the system.
	2	Admin view ticket canceled list.
	3	Select customer whose ticket were canceled.
	4	System display refunding methods
	5	Admin choose a refunding method.
	6	System display refunding amount.
	7	System validate customer bank details.
	8	Admin approve payment.
	9	System pay ticket price to the customer.
	10	System send SMS to the customer using contact number.

	11	System remove customer details from the refunding list.
Extensions	**Step**	**Branch Action.**
	3a	System displays customer did not pay for the ticket and no need to refund.
	7a	System display bank details are invalid.
	8a	Admin reject refunding.
Open Issues	1	System should ask from the customer if he like to exchange refund with another ticket booking.


Login to the system
[Invalid]
[Valid]
View ticket cancelled list
Select customer whose ticket were cancelled
Display refunding methods
Choose refunding method
Display refunding amount
Validate customer bank details
[Not approve payment]
[Approve payment]
Pay ticket price to the customer
Send notification to customer
Remove customer details from refund list
Show "Refund other customers"
[yes]
[no]


Refund Money
Admin
System
Login to the System
[invalid]
[valid]
View ticket cancelled list
Select customer whose ticket were cancelled
Display refunding methods
Choose refunding method
Display refunding amount
Validate customer bank details
[Not approve payment]
[Approve payment]
Pay ticket price to the customer
Send notification to customer
Remove customer details from refund list
Show "Refund other customers"
[yes]
[no]

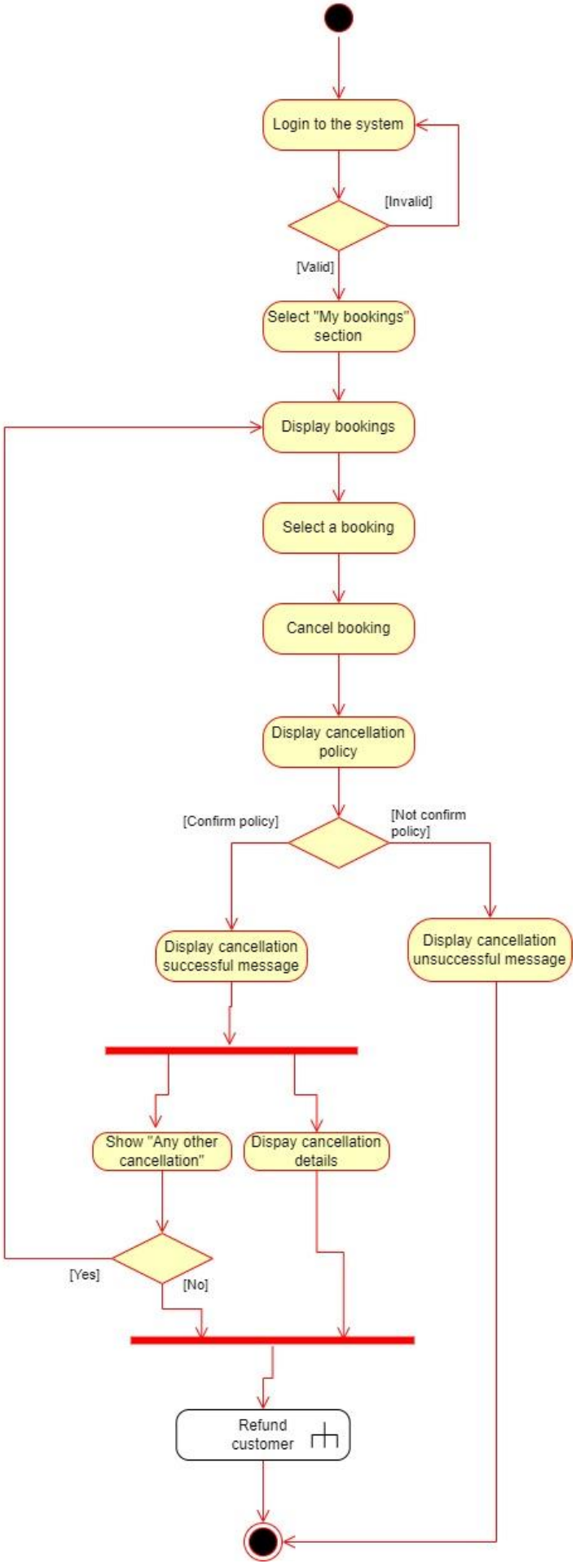
Student Details:

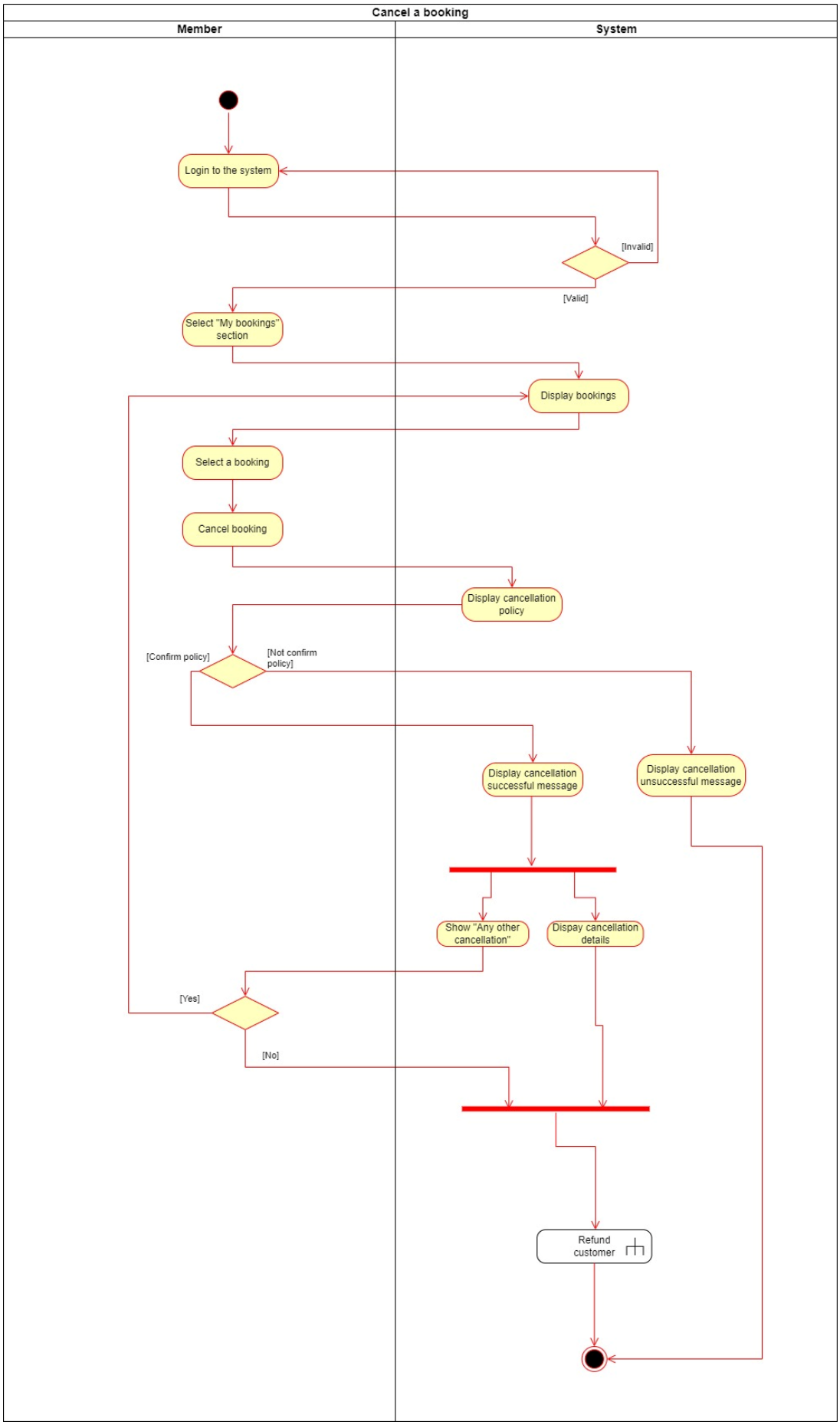
Student Name	Student Registration Number	Date	Signature
PATHIRAJA G.P.K	IT22228444	25/05/2023	Kavindi

Student ID	IT22228444
Number	3
Name	Cancel a booking
Summery	The member cancels an existing transportation booking
Priority	5
Preconditions	The member has logged in to the system The member must have an existing transportation booking
Post conditions	The transportation booking is canceled The member is refunded
Primary Actor(s)	Member, Admin
Trigger	The member want to cancel a booking that he has already made

Main Scenario	Step	Action
	1	The member log in to the system
	2	The member navigate to the “My Bookings” section
	3	The member select the booking that they want to cancel

	4	The member select the cancel button
	5	The system display cancellation policy to the member
	6	The member confirm that they have read the cancellation policy
	7	The member confirms the cancellation of transportation booking
	8	The system cancels the transportation booking
	9	The system update member booking status to “canceled”
	10	The system refund the member
Extensions	**Step**	**Branching Action**
	1a	The system notify the login details are invalid
	1b	The system notify if unregistered member login
	3a	The system display an error message and ask member to make a booking if member does not have an existing transportation booking
	5a	The system will display an error message if cancellation policy does not allow cancellation
	6a	The system will not cancel the booking If the member does not confirm they have read the cancellation policy
	10a	The System will inform the member when they can expect the refund if the refund cannot be processed immediately
	10b	The member receives the refund and return to the home page
Open Issues	1	Should the system specify what type of transportation booking is being canceled
	2	Should there be a different policy for the refund


Login to the system
[Invalid]
[Valid]
Select "My bookings" section
Display bookings
Select a booking
Cancel booking
Display cancellation policy
[Confirm policy]
[Not confirm policy]
Display cancellation successful message
Display cancellation unsuccessful message
Show "Any other cancellation"
Dispay cancellation details
[Yes]
[No]
Refund customer

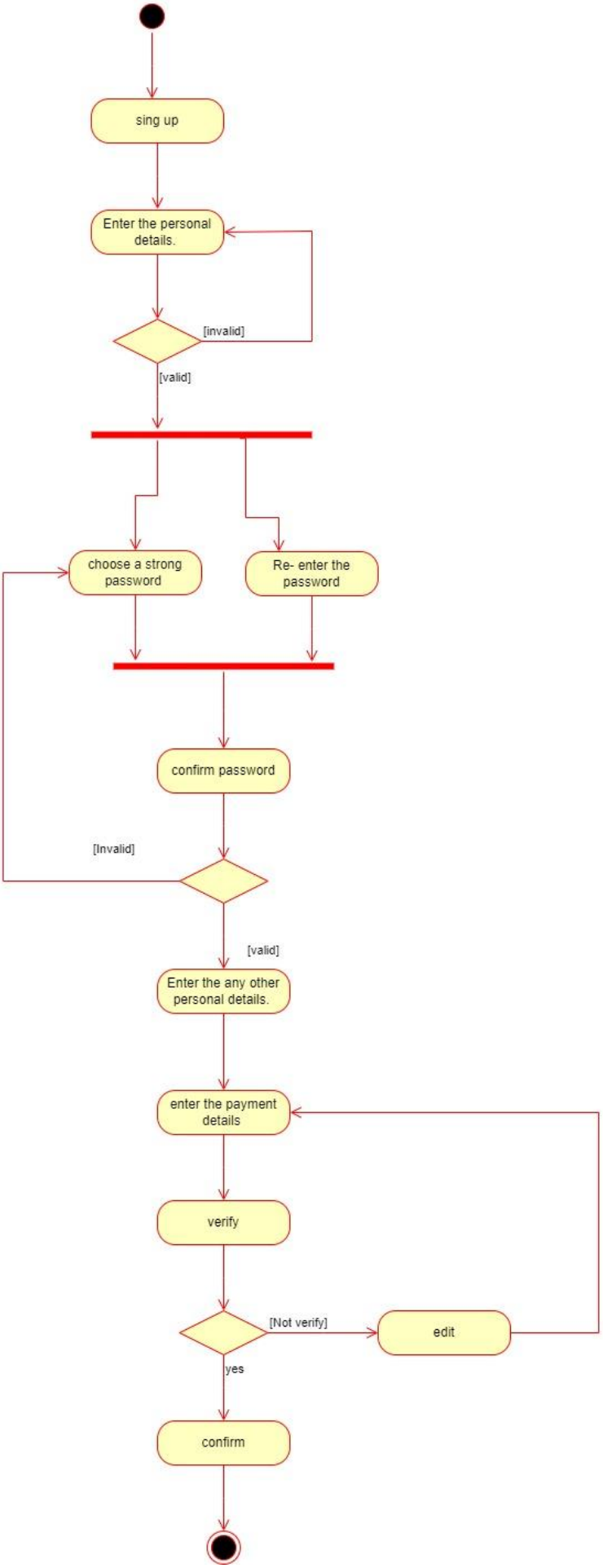

Cancel a booking
Member
System
Login to the system
[Invalid]
[Valid]
Select "My bookings" section
Display bookings
Select a booking
Cancel booking
Display cancellation policy
[Confirm policy]
[Not confirm policy]
Display cancellation successful message
Display cancellation unsuccessful message
Show "Any other cancellation"
Dispay cancellation details
[Yes]
[No]
Refund customer

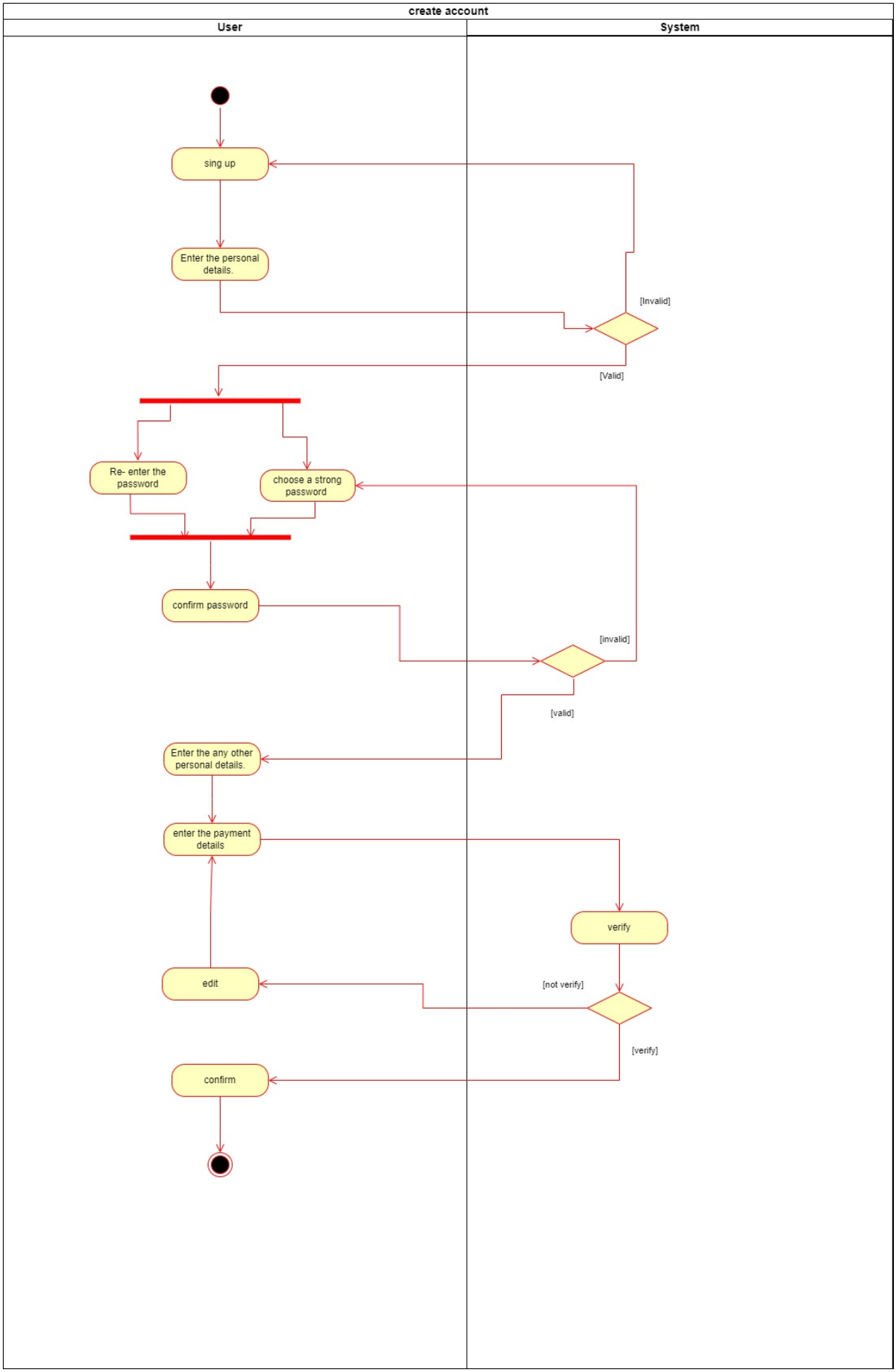
Student Details:

Student Name	Student Registration Number	Date	Signature
HERATH H.M.H.S	IT22152732	25/05/2023	Hasara

Student ID	IT22152732
Number	4
Name	Create an account
Summary	The user create an account for logged into the system
Priority	5
Preconditions	The user has access to the system
Post conditions	The user has create an account
Primary Actor(s)	User
Trigger	To access public transportation reservation

Main Scenario	**Step**	**Action**
	1	Find the official website or mobile app of the public transport service you wish to use
	2	Look for the "Sign Up" or "Register" button on the homepage or login page
	3	Fill in your personal information, such as your name, email address, and phone number
	4	Choose a strong password and confirm it
	5	Provide any other required information, such as your home address, ID number, or payment details
	6	Once your account is verified, you can log in and book your public transport ticket.
Extensions	**Step**	**Branching Action**
	1a	There may be slow loading times, error messages, or bugs with the website or mobile app
	3a	The system notifies login details are invalid
	4a	The system notifies password is not strong
	5a	The system notifies information are incorrect
	5b	The system notifies payment details are incorrect
	6a	Even after creating the account, problems disappear when logging in again
Open Issues	1	Should the system ask That the password is required to be saved


sing up
Enter the personal details.
[invalid]
[valid]
choose a strong password
Re- enter the password
confirm password
[Invalid]
[valid]
Enter the any other personal details.
enter the payment details
verify
[Not verify]
edit
yes
confirm


create account
User
System
sing up
Enter the personal details.
[Invalid]
[Valid]
Re- enter the password
choose a strong password
confirm password
[invalid]
[valid]
Enter the any other personal details.
enter the payment details
verify
edit
[not verify]
[verify]
confirm

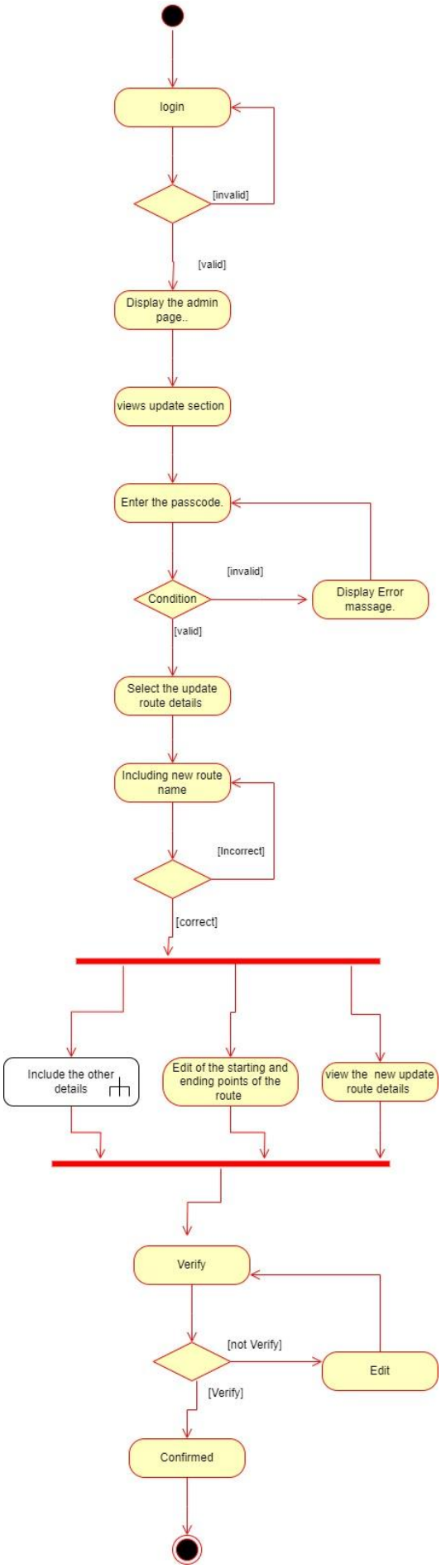
Student Details:

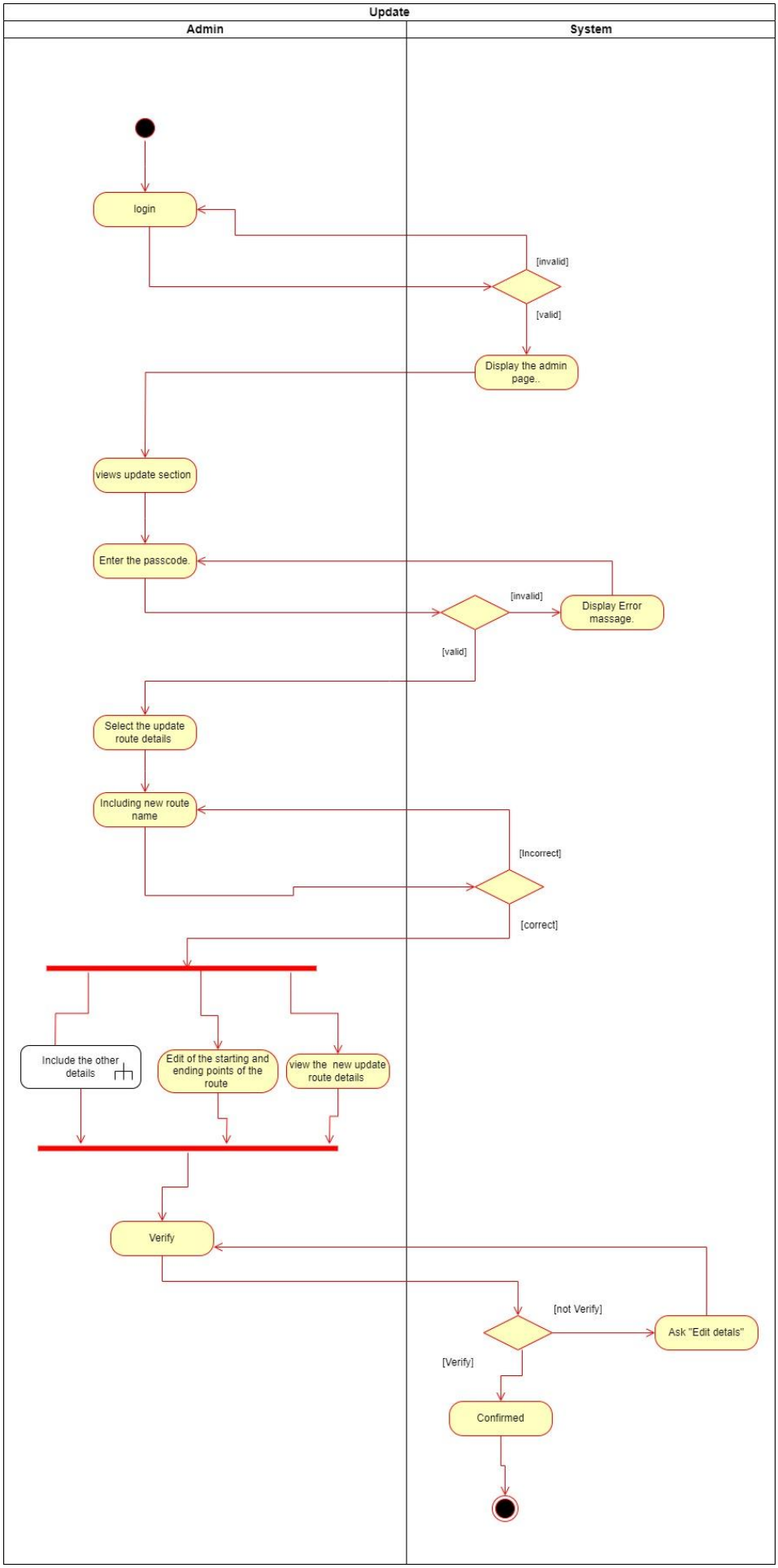
Student Name	Student Registration Number	Date	Signature
RATHNAYAKE R.M.D.C	IT22255938	25/05/2023	Chethana

Student ID	IT22255938
Number	5
Name	Add and update bus route details.
Summary	The admin adds and update train/bus route details.
Priority	5
Preconditions	The admin has logged into the system. The admin has cheeked the bus/train route details.
Post conditions	The admin has updated new bus/train route and time schedule.
Primary Actor(s)	Admin
Trigger	The admin wants to add and update transportation schedule.

Main Scenario	Step	Action
	1	The admin logs in to the system
	2	The admin navigates to the “update” section.
	3	The system display “Enter the passcode”
	4	The admin enters the passcode.
	5	The select the update bus/train route details.
	6	Identification of the new bus/train route and including a new route name.
	7	Edit of the starting and ending points of the bus/train route.

	8	Definition of the bus stops and railway station along the route, including their names, locations and any other relevant details.
	9	Update of the schedule for the bus/train route including the frequency of bus/train and the time of day they operate.
	10	The system asks for a confirmation from the administrator to confirm the update.
Extensions	**Step**	**Branching Action**
	1a	The system notify the login details are invalid
	3a	The system notify the password is invalid
	5a	The System Notifies invalid route details.


login
[invalid]
[valid]
Display the admin page..
views update section
Enter the passcode.
[invalid]
Condition
Display Error massage.
[valid]
Select the update route details
Including new route name
[Incorrect]
[correct]
Include the other details
Edit of the starting and ending points of the route
view the new update route details
Verify
[not Verify]
Edit
[Verify]
Confirmed


Update
Admin
System
login
[invalid]
[valid]
Display the admin page..
views update section
Enter the passcode.
[invalid]
Display Error massage.
[valid]
Select the update route details
Including new route name
[Incorrect]
[correct]
Include the other details
Edit of the starting and ending points of the route
view the new update route details
Verify
[not Verify]
Ask "Edit detals"
[Verify]
Confirmed