

Assignment 2 Cover Sheet

CASE STUDY NAME	Automated parking system
PROJECT ID	MLB_WD_01.01_09

Group Details:

	Student Registration Number	Student Name
1	IT22111692	ABEWARDHANA J.H. K
2	IT22272768	BASNAYAKA W.B.M.D. K
3	IT22127778	CHAVINDEE M.A. P
4	IT22138668	PERERA T.M. S
5	IT22116260	THARINDI W.A. K

Assignment 2 Certify Sheet

I hereby certify,



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



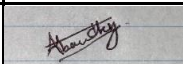
I have contributed in this assignment to the best of my ability.

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:

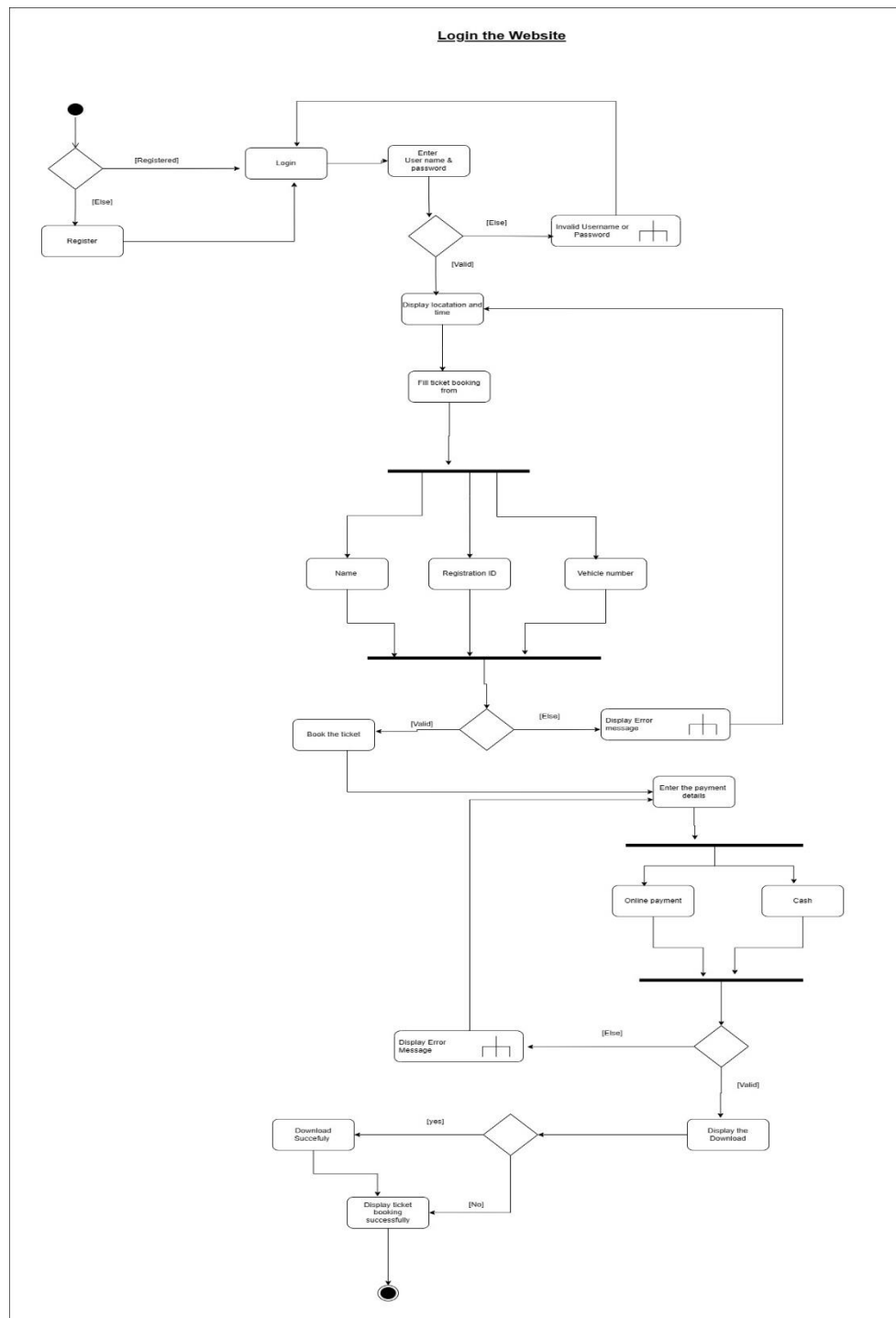
Student Name	Student Registration Number	Date	Signature
ABEWARDHANA J.H. K	IT22111692	2023/10/19	

Activity Diagram for the Use case Scenario:

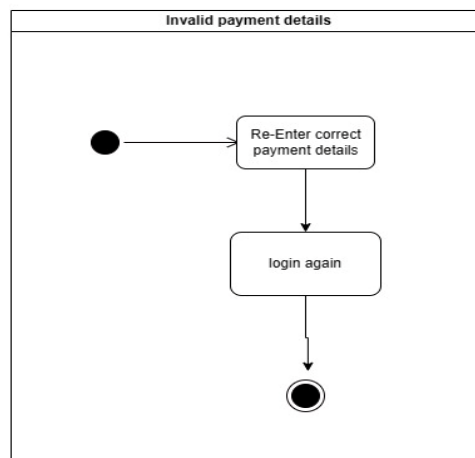
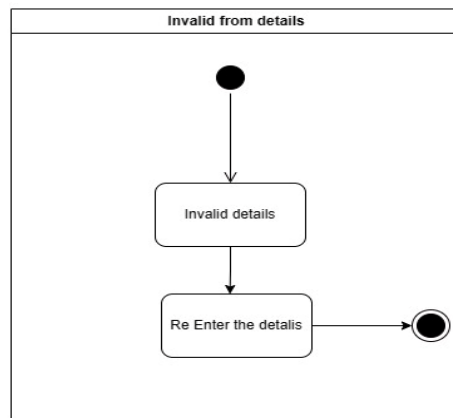
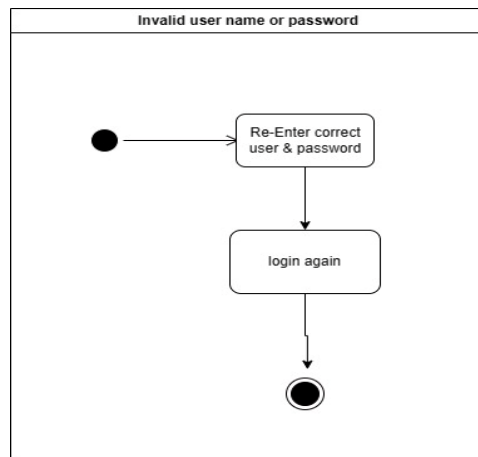
Use case ID	IT22111692 _001	
Use case Name	Login the website	
Summary	Review the page	
Priority	05	
Pre-condition	User Should be a registered user	
Post-condition	Get the location & time	
Primary actors	Registered user	
Trigger		
Main scenario	Step	Action
	01.	Stars when member wants to login to the system.
	02.	The System ask for the username and password.
	03.	Users enter the Username and Password.
	04.	System valid the details.
	05.	System shows the successful message.
	06.	User will redline to the main page.
	07.	User go to Lactation and time page.
	08.	System valid the details.

	09.	System show the successful message.
	10.	System Aks “Download” the ticket.
	11.	User enters “yes” button.
	12.	The system gives the report as a download.
Extension	Step	Action
	04.a	If Username and Password is invalid the system display error message.
	04.b	The system re-enters the Username and Password
	04.c	User will be prompted to enter Username and Password again
	04.d	User will be prompted to select the forget password option
	08.a	If details are invalid the system display error message
	08.b	The system asks RE- enter the from details

Activity Diagram without partitioning

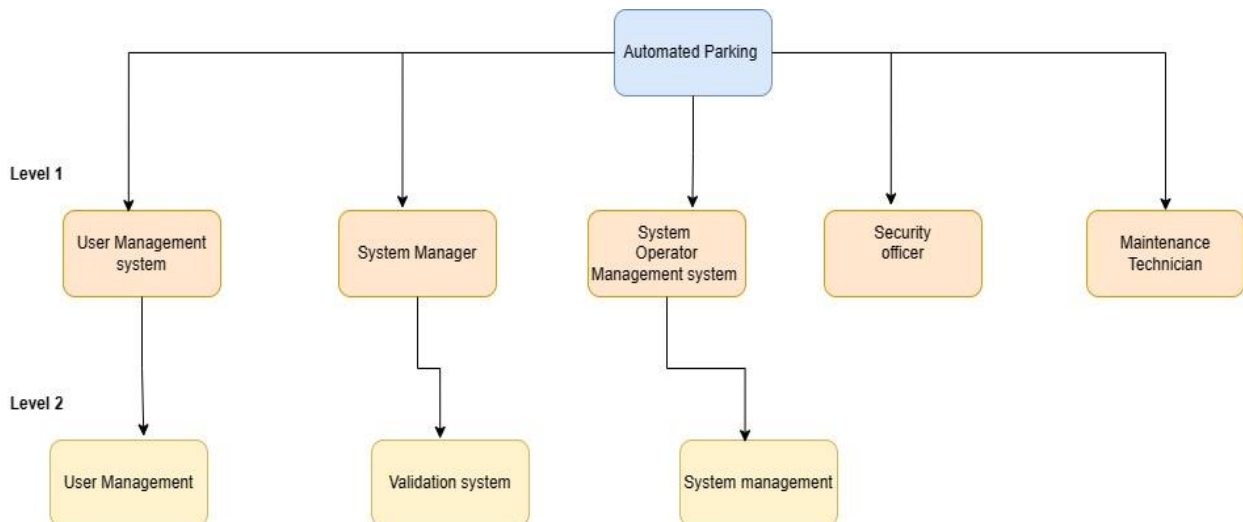


Sub system

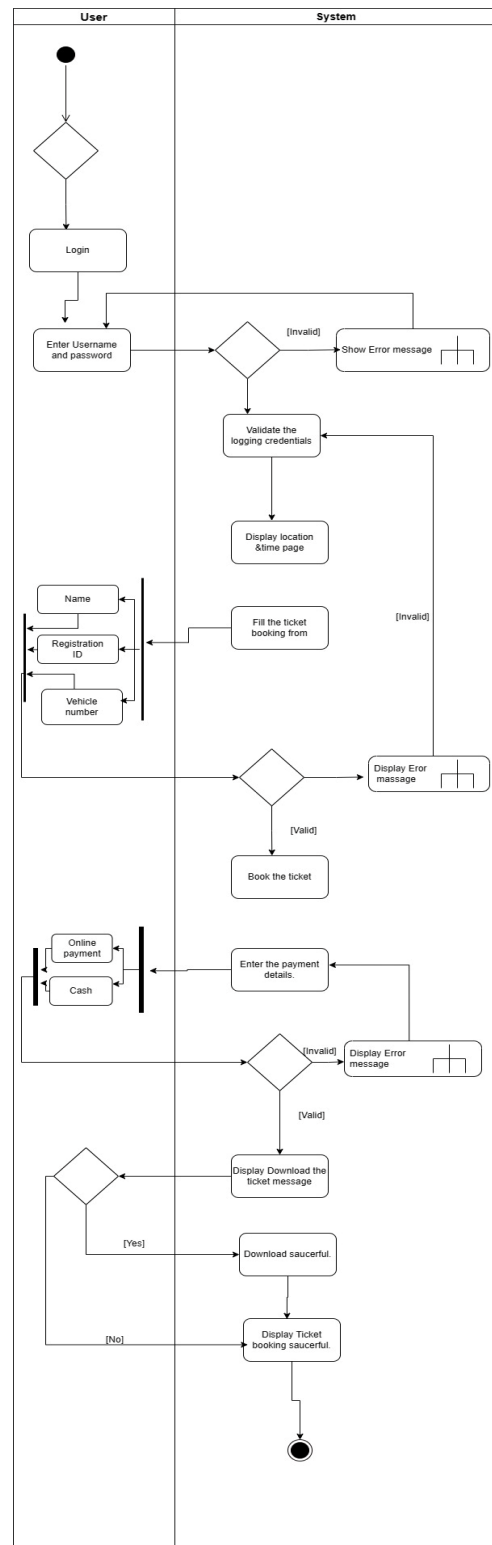


Part 2

Level 1 & sub system diagrams



Activity diagram with partitioning



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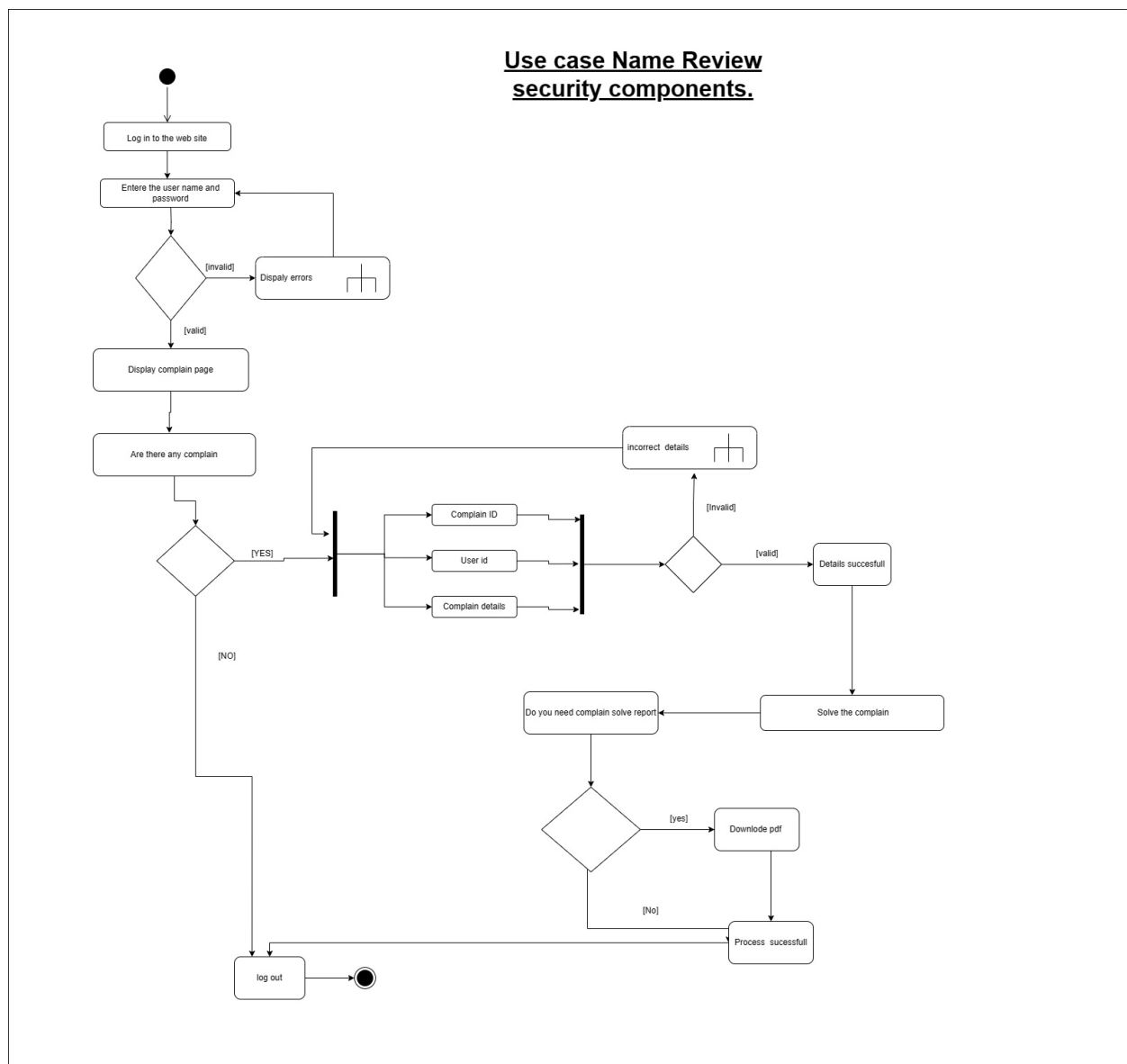
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Student Details:

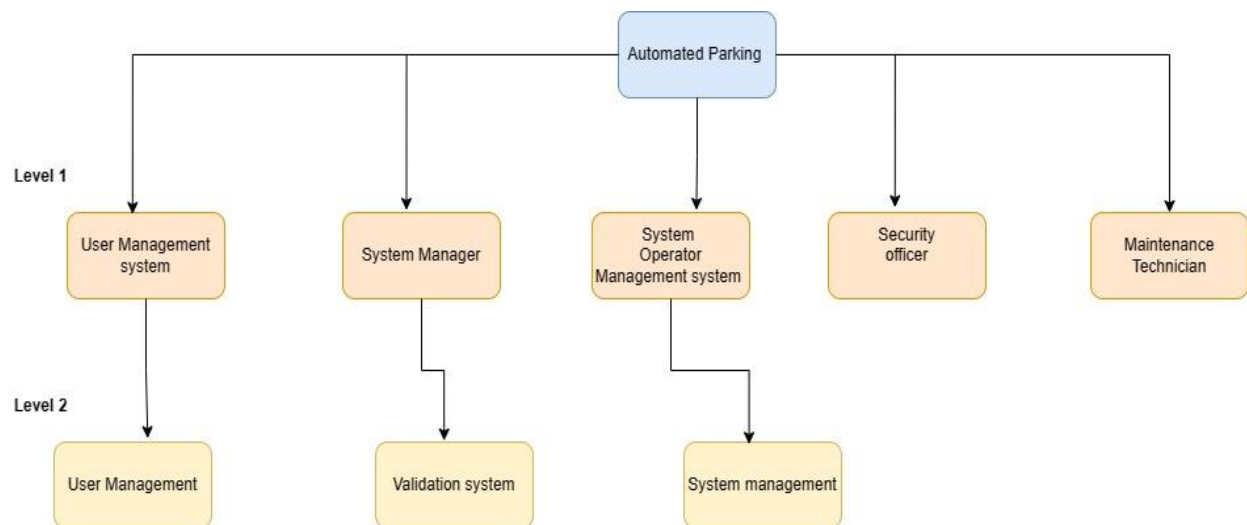
Student Name	Student Registration Number	Date	Signature
BASNAYAKA W.B.M.D. K	IT22272768	2023/10/19	

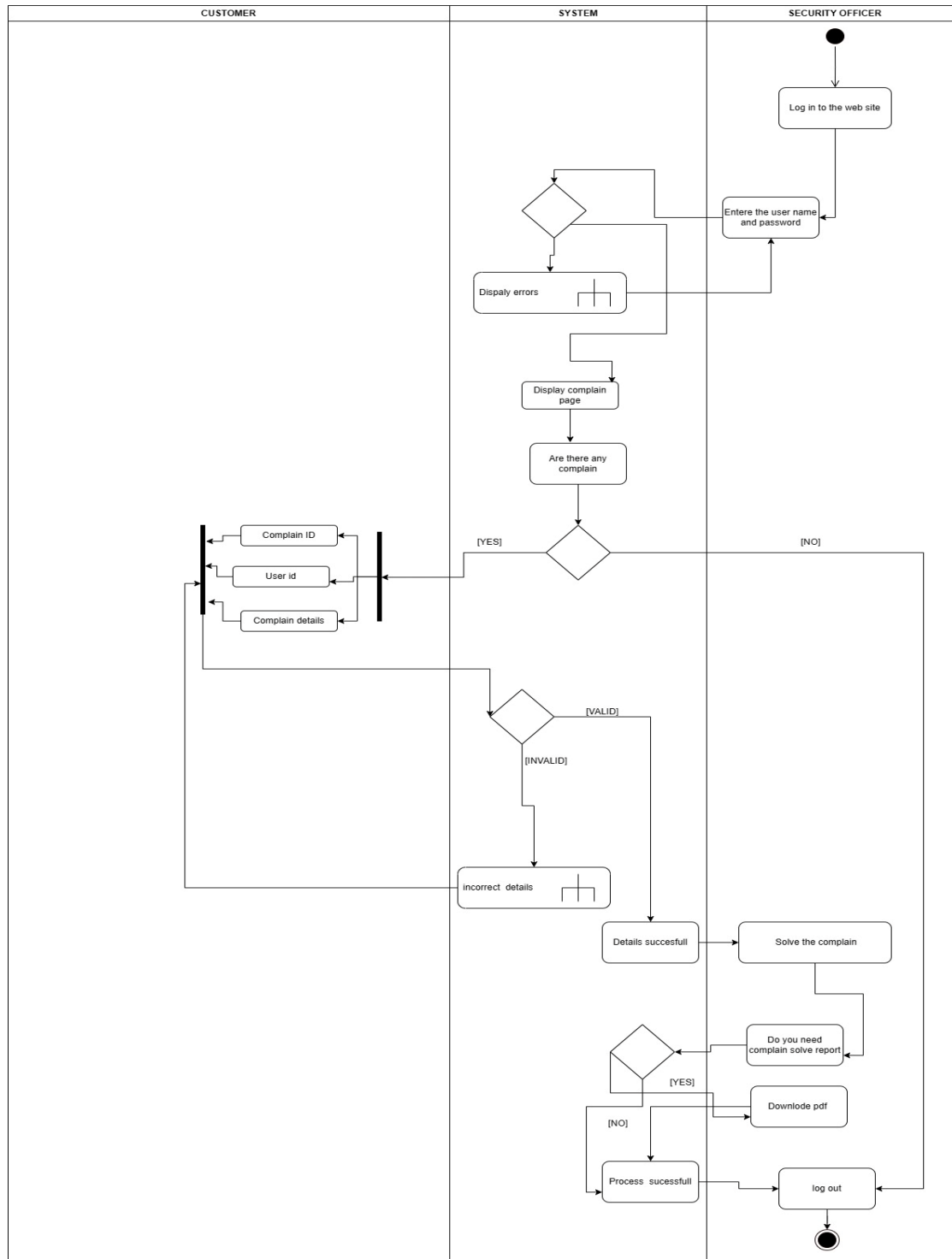
Use case ID	IT22272768 _002	
Use case Name	Review security components.	
Summary	Solving security issues by reviewing complains	
Priority	05	
Pre-condition	Security officer should have permission to access CCTV recordings.	
Post-condition	Solve all issues successfully.	
Primary actors	Head of security	
Trigger	Re-solve customers complains	
Main scenario	Step	Action
	01.	Log in to the web page
	02.	System validates the meter.
	03.	Review complains in support page
	04.	Check emergency complains.
	05.	Solve all issues.
Extension	Step	Action
	01.a	System asks to re-enter username or password.
	02.a	System display “There are not any complains

Activity Diagram without partitioning

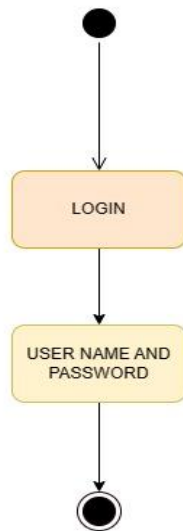


Level 1 & sub system diagrams

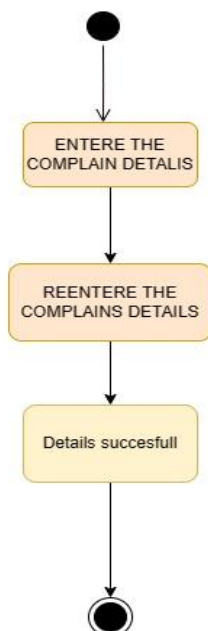




INVALID USER NAME AND PASSWORD



INCORRECTE DETAILS SUB SYSTEM



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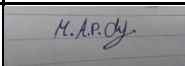
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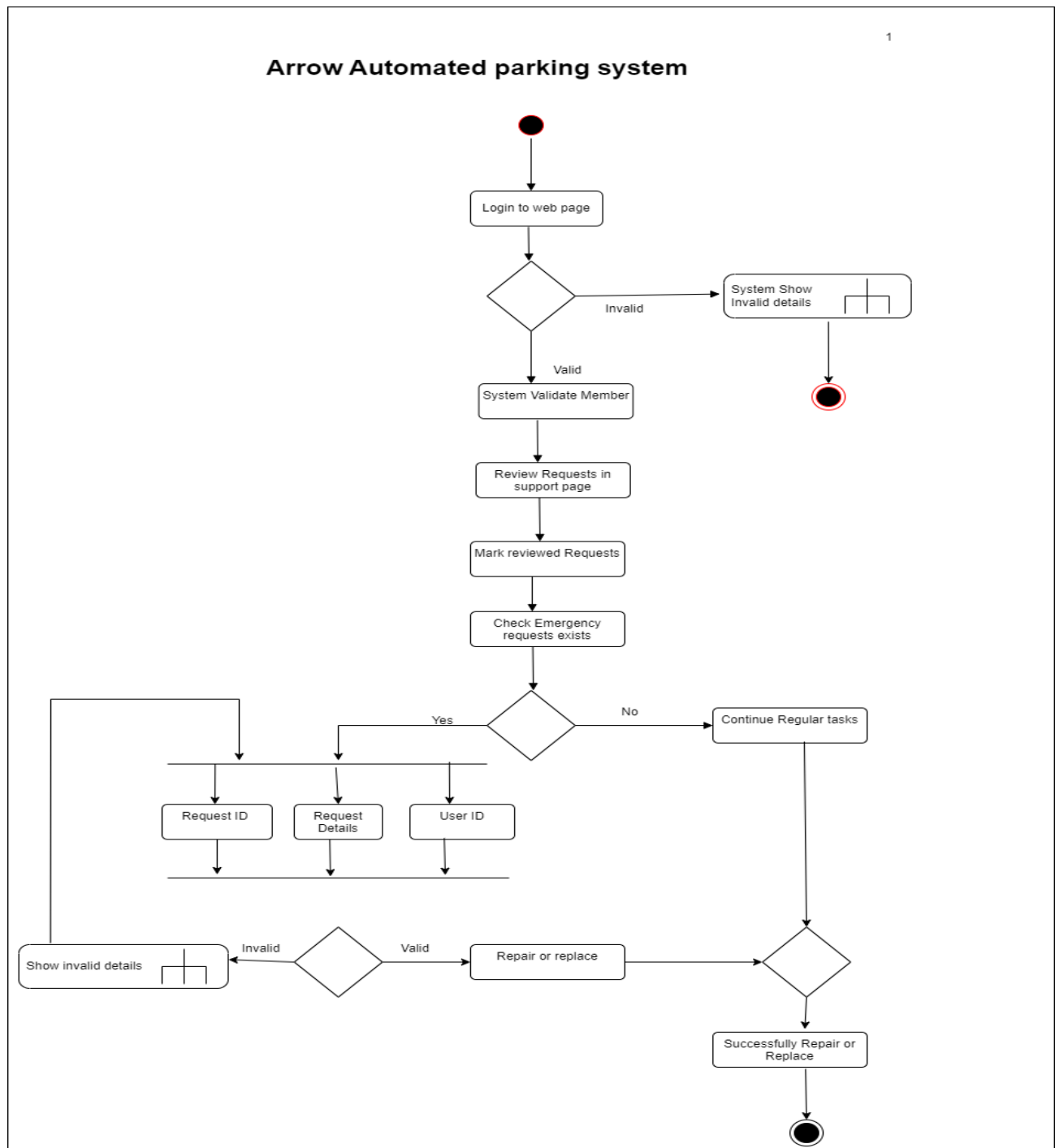
Student Name	Student Registration Number	Date	Signature
CHAVINDEE M.A.P	IT22127778	2023/10/19	

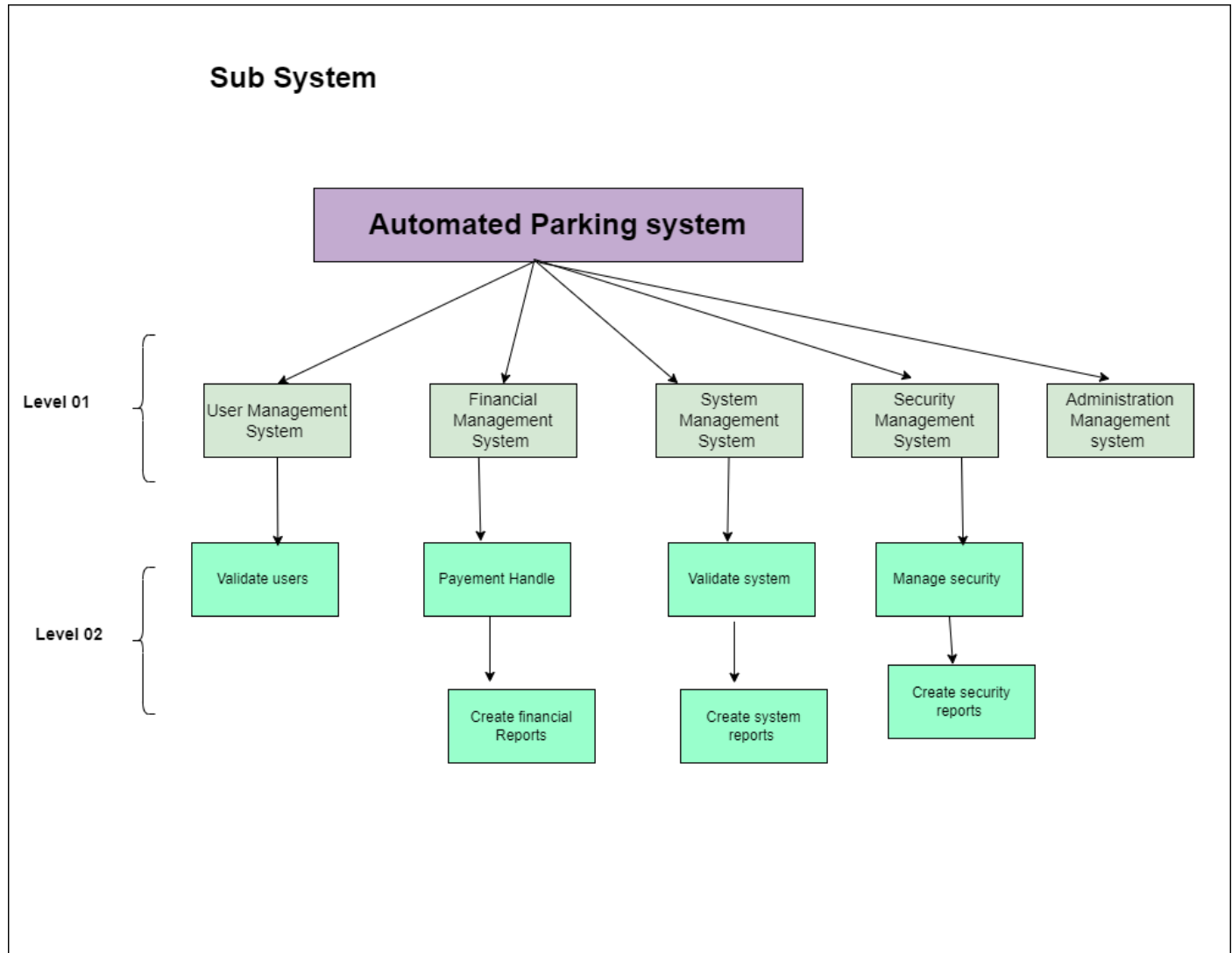
Activity Diagram for the Use case Scenario:

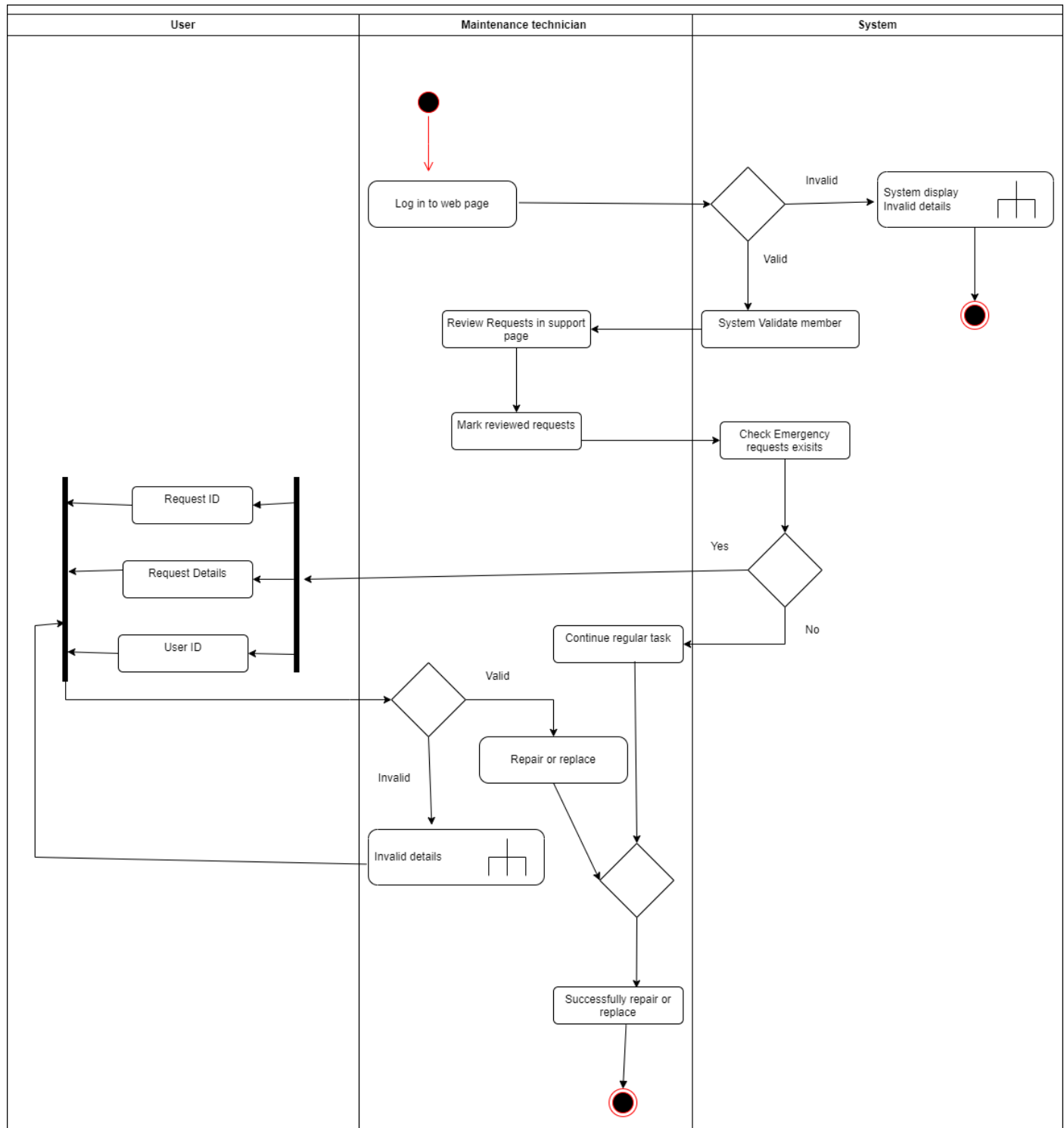
Use case ID	IT22127778_003	
Use case Name	Review maintenance requests.	
Summary	Review maintenance request & solving	
Priority	05	
Pre-condition	Maintenance Technician should have Account in webpage.	
Post-condition	Successfully repair or replace components.	
Primary actors	Maintenance technician	
Trigger	To handle & maintain issues in parking system	
Main scenario	Step	Action
	01.	Action starts when maintenance technician log in to the system.
	02.	The System ask for the username and password.
	03.	Maintenance Technician enter the Username and Password.
	04.	System valid the member.
	05.	Review requests in support page.
	06.	Mark reviewed requests as reviewed.
	07.	Check are there any emergency request exists.

Extension	08.	Maintenance technicians validate request by reviewing details.
	09.	Repair or replace
	Step	Action
	02.a	If Username and Password is invalid the system display error message.
	07.a	If there are no emergency requests system displays ‘There are no emergency issues.’

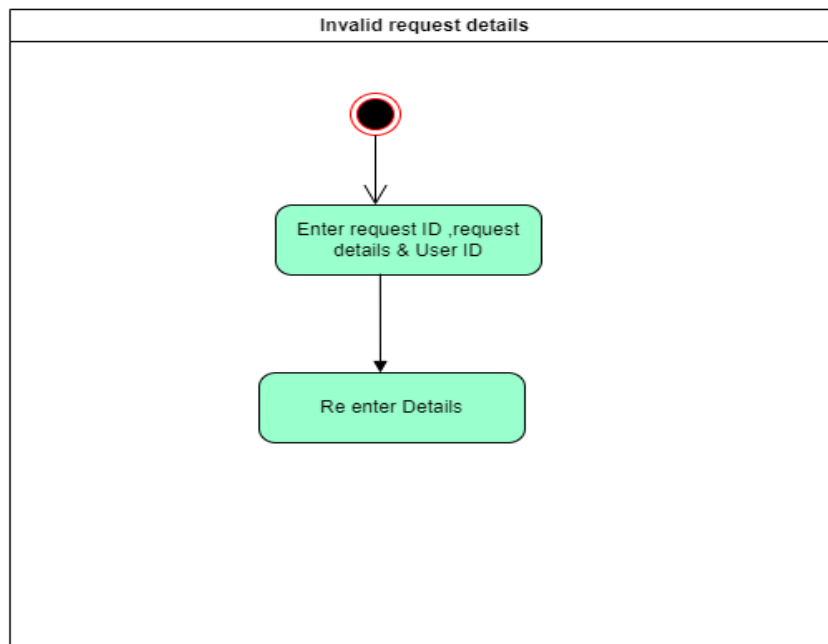
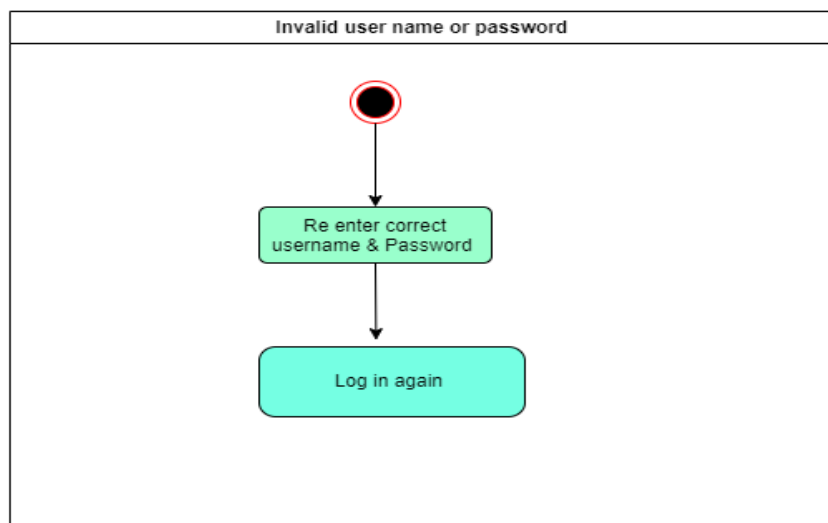
Activity Diagram without partitioning







Sub systems



Assignment 2 Certify Sheet

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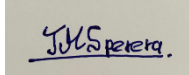
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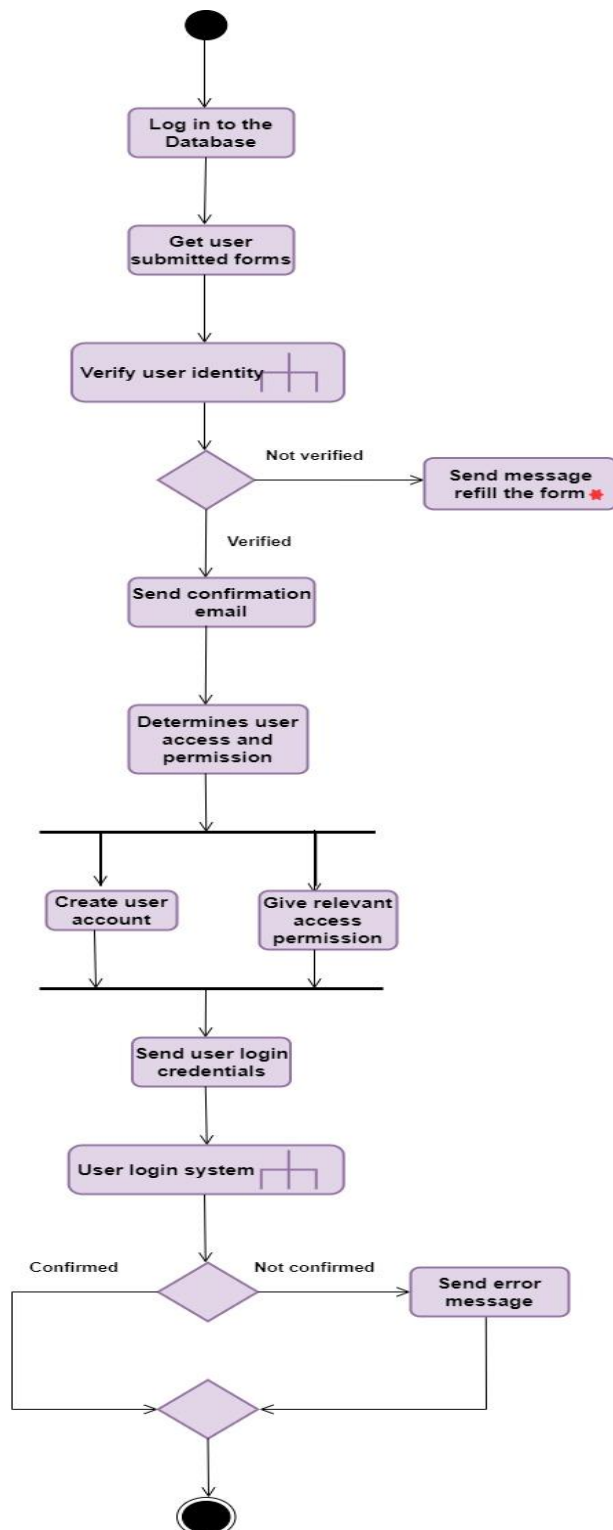
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Student Details:

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PERERA T.M.S	IT22138668	2023/10/19	

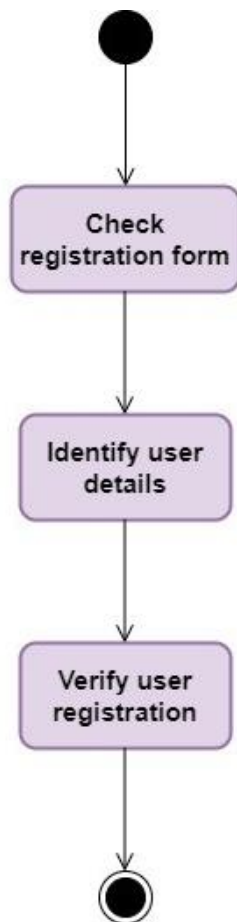
Use case ID	IT22138668_004	
Use case Name	Approve Registered User	
Summary	Approve new user to a system and creating account, getting access permission.	
Priority	05	
Pre-condition	Log in to the Database	
Post-condition	Send confirmation email	
Primary actors	System Operator	
Trigger	A customer requiring access to the system to use the services	
Main scenario	Step	Action
	01.	Logging to the Database
	02.	Get user submitted details and verify user identity
	03.	Determines user access and permissions after reviewing the user request
	04.	Create a user account and give relevant access permission to user
	05.	Send user's login credentials and instructions to login the system
	06.	User login to the system through his/her account
Extension	Step	Action
	02.a	During the verification phase, the system recognizes incorrect information entered by user
	06.a	When a user login to the system by using his/her login credentials, if they are not matching, send login error message
	06.b	User enter login credentials more than three time and get error, send message renew login credentials

Part 1 - Activity Diagram

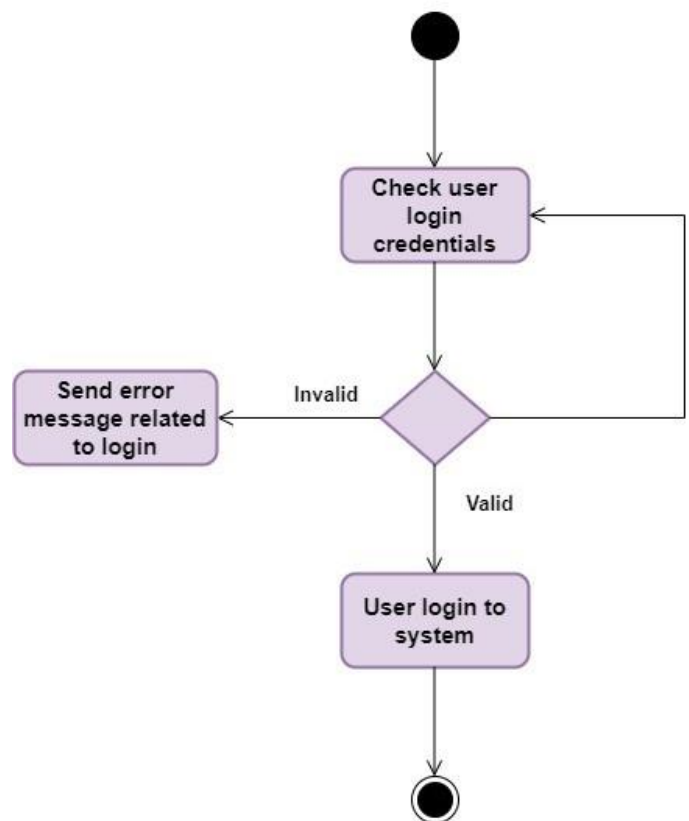


Sub Systems

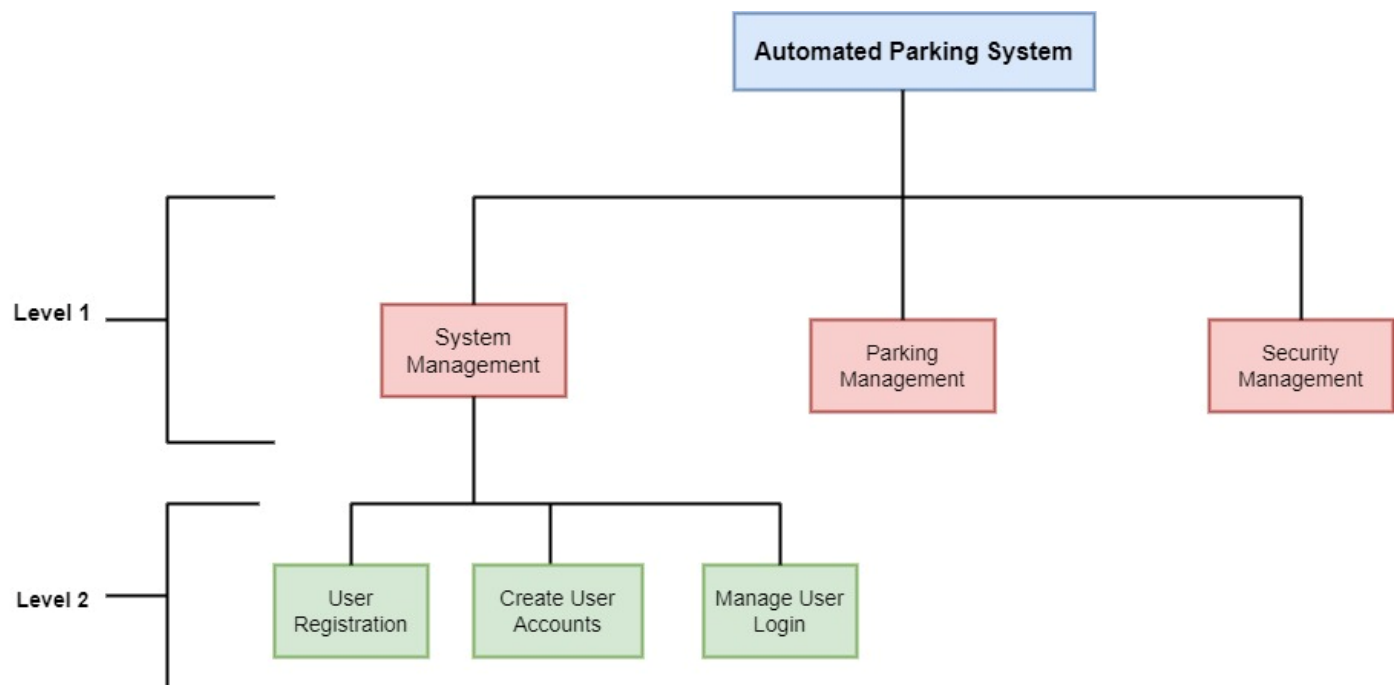
Verify User Identity



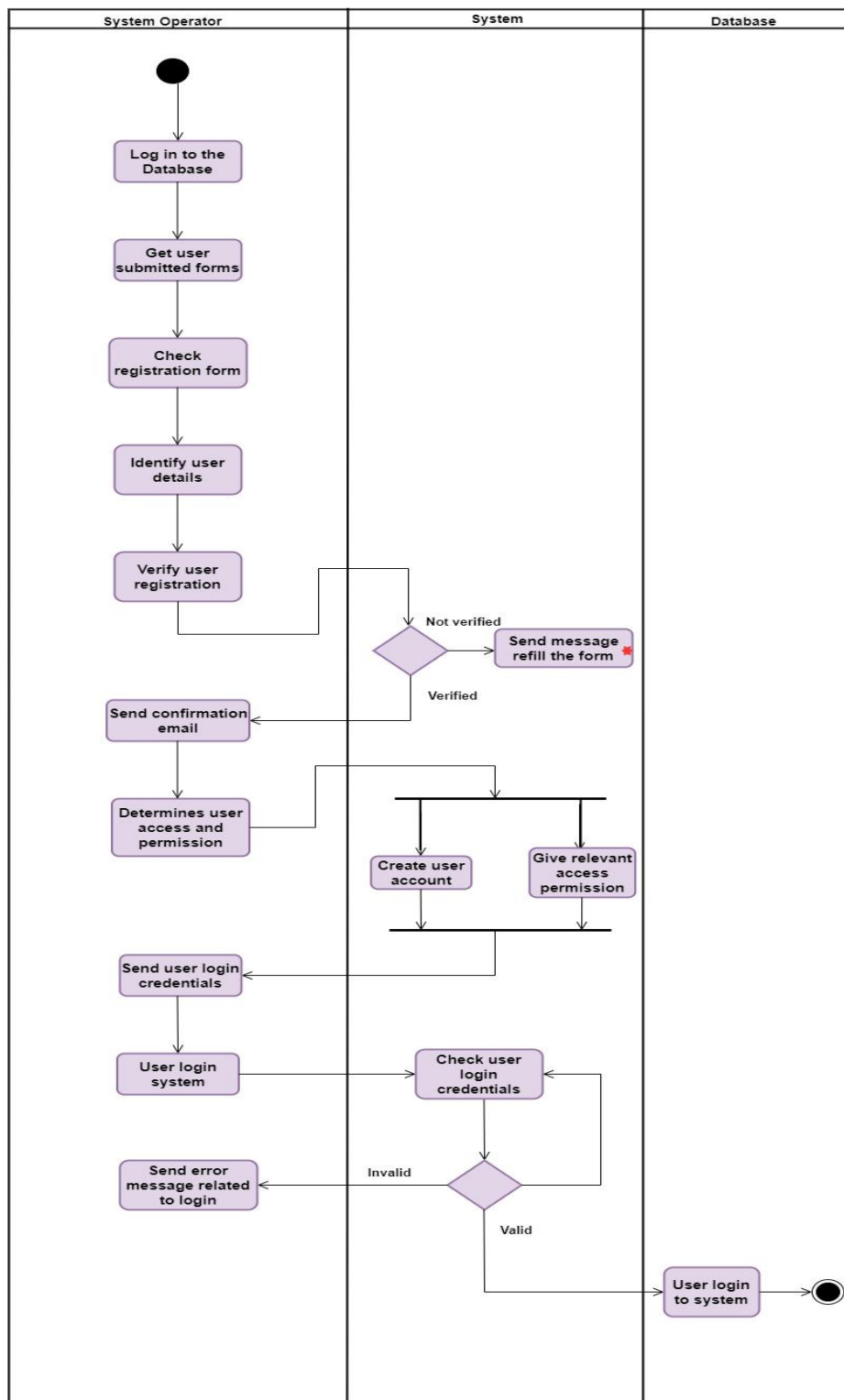
User Login System



Part 2 – Level 1 and Level 2



Activity Diagram (with partitioning)



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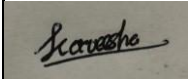
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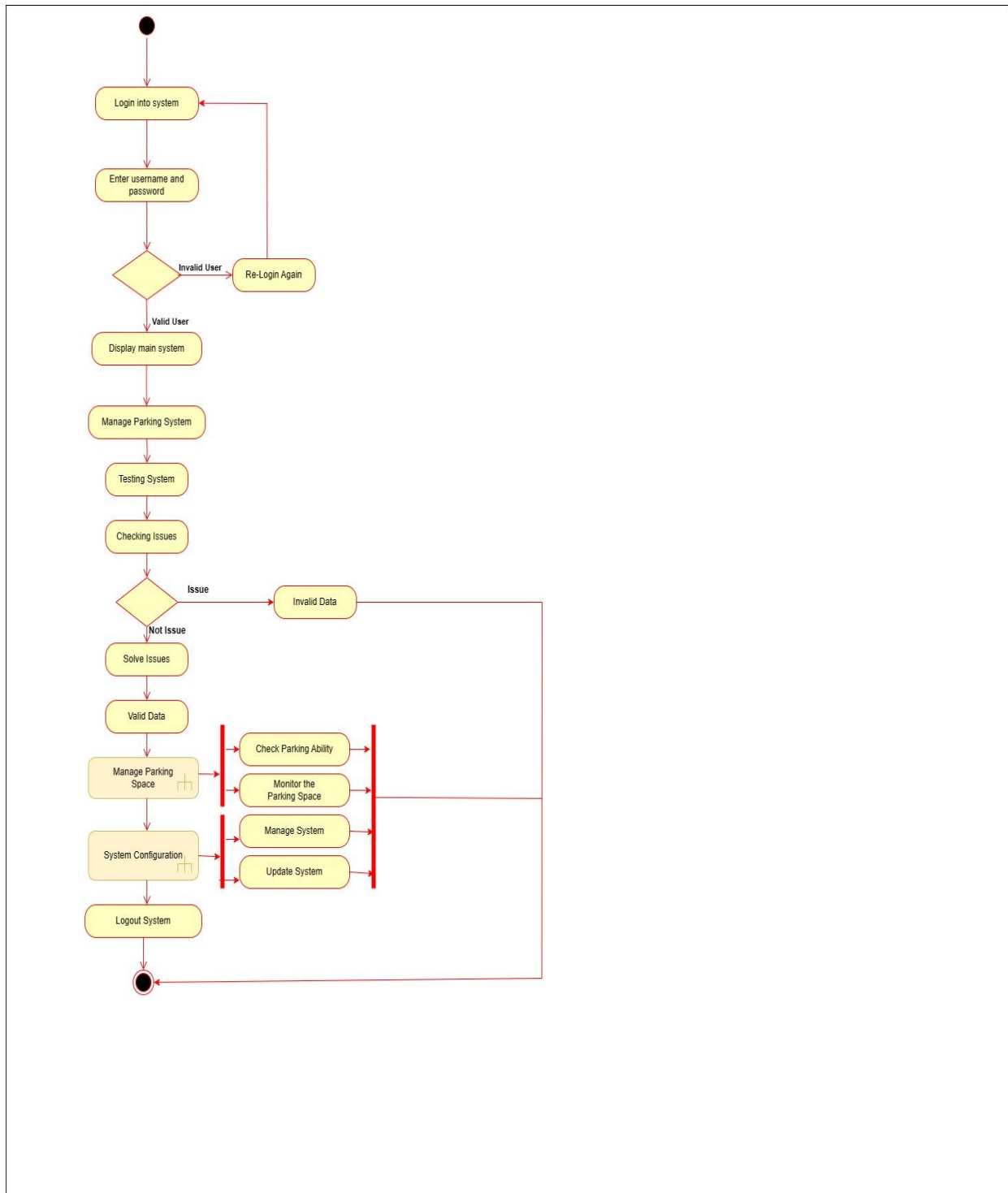
Student Name	Student Registration Number	Date	Signature
THARINDI W.A. K	IT22116260	2023/10/19	

Assignment Part 01**Use Case Scenario:**

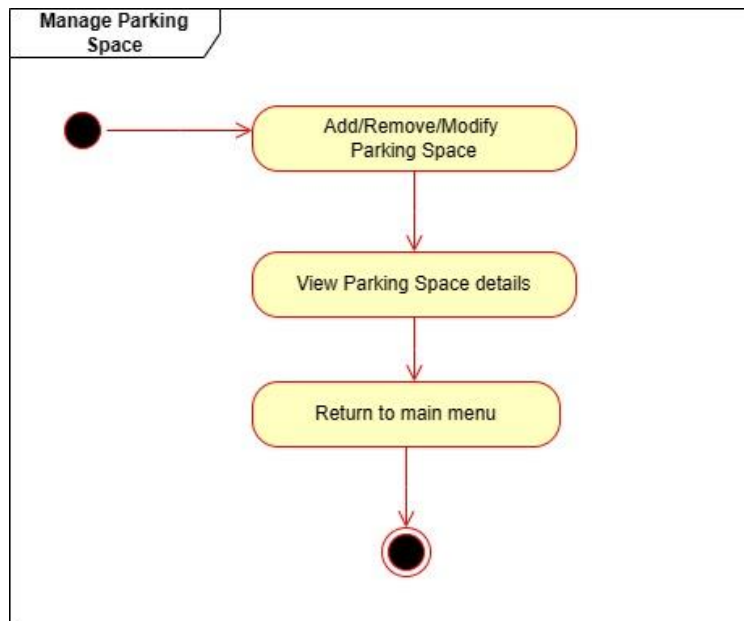
Use Case ID	IT22116260_005	
Use Case Name	Manage Automated Parking System	
Summary	The system manager's ability to monitor and control the Automated Parking System.	
Priority	04	
Pre-Condition	The Automated Parking System is installed and operational. The system manager is logged into the system.	
Post-Condition	The Automated Parking System continues to operate smoothly.	
Primary Actors	System Manager	
Trigger	The system manager initiates the use case through a dedicated control interface.	
Main Scenario	Step	Action
	01.	The system manager logs into the control interface.
	02.	The system presents an overview of the Automated Parking System's status
	03.	The system manager reviews the status information, including occupancy levels, revenue and any reported issues.
	04.	The system manager takes appropriate action
	05.	The system manager logs out of the control interface.

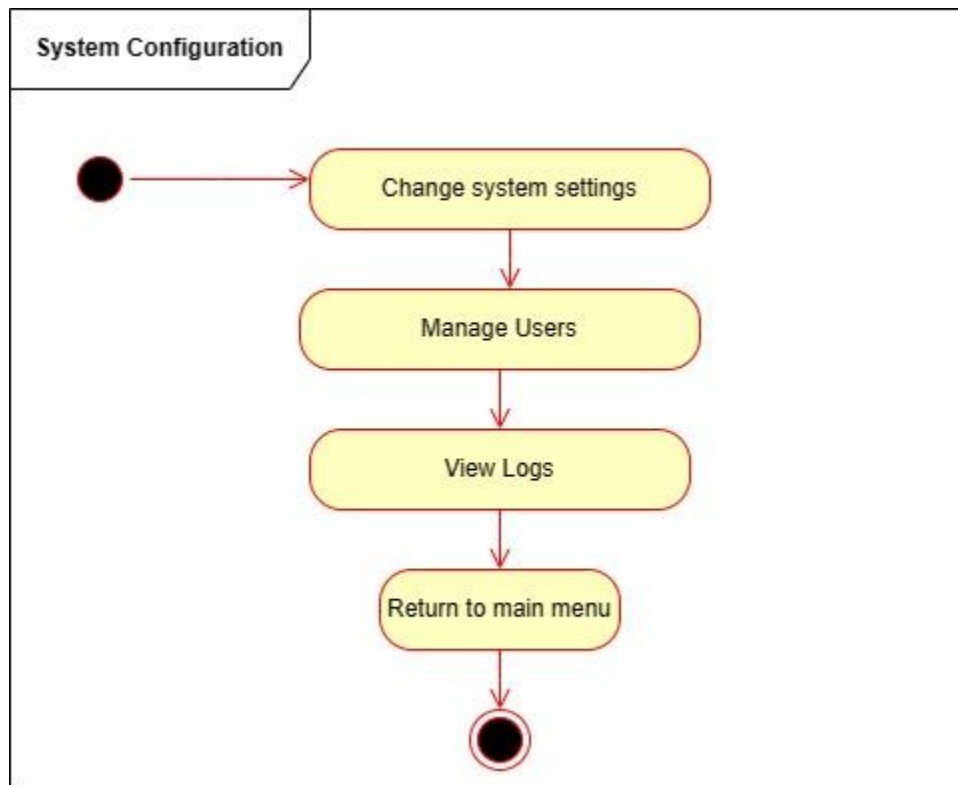
Extension	Step	Action
	01.	List any open issues, including their severity and current status.
	02.	Discuss potential system improvements or upgrades.
	03.	Summarize any user suggestions or feature requests.

Activity Diagram Without Partitioning



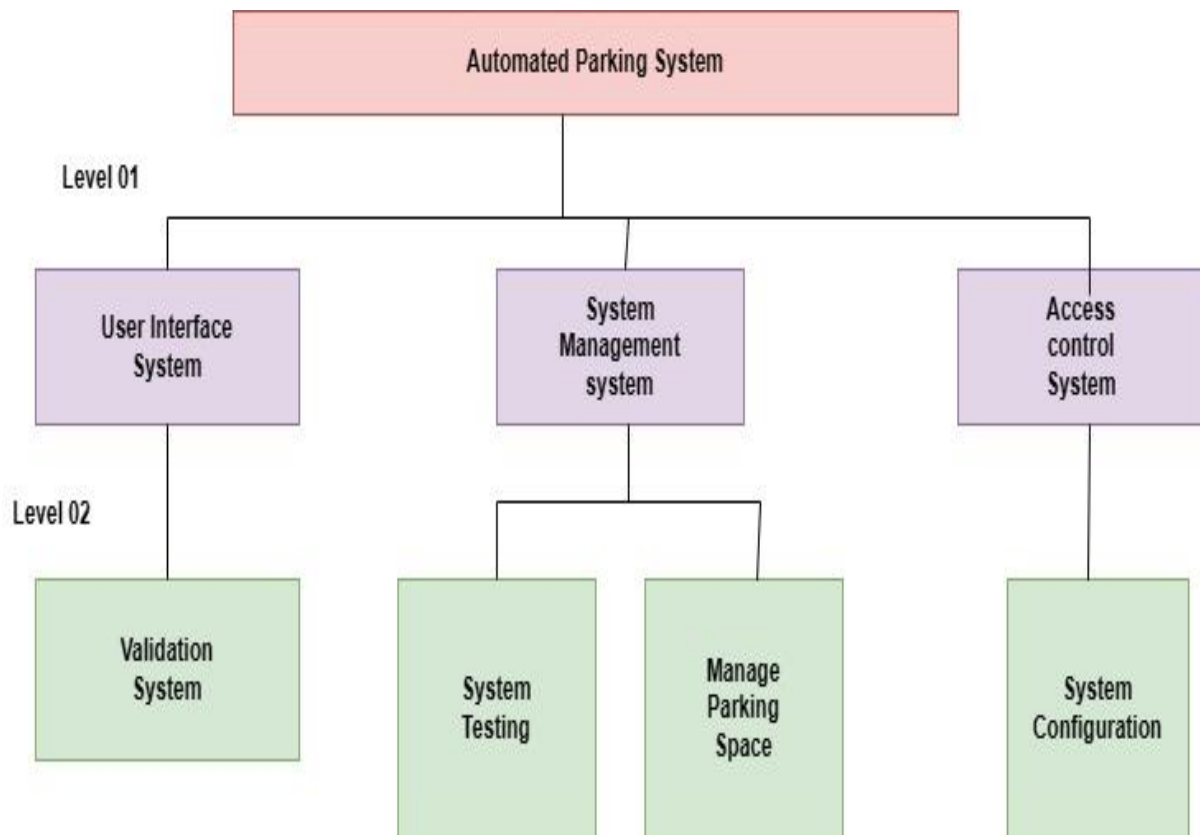
Sub Systems





Assignment Part 02

Level 01 & 02 Sub System Diagrams



Activity Diagram with Partitioning

