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1.0 User Characteristics

| Role | Description | Required Knowledge |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| End User | Regular customers are individuals who frequently visit the parking facility, such as commuters, employees, or residents of nearby buildings. They rely on the parking system to conveniently park their vehicles during their regular visits to the area. | End user requires good command in the English language which helps when using the system. |
| Admin | The administrator plays a crucial role in overseeing and managing the operation of the car parking system. Admins are responsible for maintaining the system, ensuring its smooth operation, and handling administrative tasks such as managing parking slots, monitoring parking occupancy, and resolving issues or discrepancies. | Admin requires good understanding how to use the system, perform the task. |

Table 1.1: User Characteristics

2.0 Product Features

| Feature ID | Feature | Description | Accessible Role |
|---------------|---------------------------|-----------------------------------------------------------------------------------|--------------------|
| F001 | Search Vehicle | To allow the end user to search their vehicle | End User |
| F002 | View total parked hour | To allow the end user to view the total hour of their vehicle parked | End User |
| F003 | View parking fees | To allow the end user to view the total calculated parking fees for their vehicle | End User |
| F004 | Make payment | To allow end user to make payment before they go out the parking | End User |

| F005 | Login | To allow admin login to the system | Admin |
|------|----------------------|--------------------------------------------------------------------|-------|
| F006 | Logout | To allow admin logout from the system | Admin |
| F007 | Add Car to Slot | To allow admin add car plate number to the available car park slot | Admin |
| F008 | Edit Car Info | To allow admin to edit the car info for error handling | Admin |
| F009 | Edit Parking Rate | To allow admin to edit the parking rate | Admin |

Table 2.1: Functional Requirements

3.0 Specific Requirements

${\bf 3.1\ Non-Functional\ Requirements}$

Not applicable

3.2 Functional Requirements

| Requirement ID | REQ_F001 | Version | 1.0 |
|----------------|--------------------------------------------------------------------------------------------------------|-------------|----------|
| Description | System shall be able to allow end user key in their vehicle plate r in system then display the result. | number, and | l search |

| Author | Enoch Leong Qi Cong |
|--------|---------------------|

Table 3.1: REQ_F001

| Requirement ID | REQ_F002 | Version | 1.0 |
|----------------|-------------------------------------------------------------------------|----------------|-----------------|
| Description | System shall be able to calculate and display the total p vehicle park. | oarked hour th | at the searched |
| Author | Enoch Leong Qi Cong | | |

Table 3.2: REQ_F002

| Requirement ID | REQ_F003 | Version | 1.0 |
|----------------|---------------------------------------------------------------------------------------|--------------|---------------|
| Description | System shall be able to calculate and display the total parking the searched vehicle. | ng fees need | to be pay for |
| Author | Enoch Leong Qi Cong | | |

Table 3.3: REQ_003

| Requirement ID | REQ_F004 | Version | 1.0 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|
| Description | System shall be able to allow end user choose their desire payment method such as e-wescription wallet and debit/credit card to make payment. | | |
| Author | Enoch Leong Qi Cong | | |

Table 3.4: REQ_004

| Requirement ID | REQ_F005 | Version | 1.0 |
|----------------|------------------------------------------------------------------------------------------|---------|-----|
| Description | System shall be able to allow admin login to the system to perform administration tasks. | | |
| Author | Enoch Leong Qi Cong | | |

Table 3.5: REQ_005

| Requirement ID | REQ_F006 | Version | 1.0 |
|----------------|------------------------------------------------------------|---------|-----|
| Description | System shall be able to allow admin logout from the system | | |
| Author | Enoch Leong Qi Cong | | |

Table 3.6: REQ_006

| Requirement ID | REQ_F007 | Version | 1.0 |
|----------------|--------------------------------------------------------------|---------------|--------------|
| Description | System shall be able to allow admin assign the car plate num | nber to the c | ar park slot |
| Author | Enoch Leong Qi Cong | | |

Table 3.7: REQ_007

| Requirement ID | REQ_F008 | Version | 1.0 |
|----------------|----------------------------------------------------------------|------------|-----|
| Description | System shall be able to allow admin edit info of the car if er | ror occur. | |

| Author | Enoch Leong Qi Cong |
|--------|---------------------|

Table 3.8: REQ_008

| Requirement ID | REQ_F009 | Version | 1.0 |
|----------------|--------------------------------------------------------------|---------|-----|
| Description | System shall be able to allow admin to edit the parking rate | | |
| Author | Enoch Leong Qi Cong | | |

Table 3.9: REQ_009

4.0 Use Case Table

| Use Case ID | UC01 | Version | 1.0 |
|---------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|
| Feature | F001 Search Vehicle | | |
| Purpose | To allow the end user to search their vehicle | | |
| Actor | End User | | |
| Trigger | End User input the car plate number and click "Search" button | | |
| Precondition | Admin has entered the car plate inside the system User at car parking system main page | | |
| Scenario Name | Step Action | | |
| Main Flow | 1 | End user input the car plate number | er |
| | 2 | End user clicks the "Search" butto | n |

| | 3 | System search for the car plate number |
|-------------------------------|----------------------------------------------|---------------------------------------------------------------------|
| | 4 | The system redirects to the search result page and display the info |
| Alternate Flow: | 1.1 | End user input invalid car plate number |
| Car Plate Number Not Found | 1.2 | End user clicks the "Search" button |
| | 1.3 | System search for the car plate number |
| | 1.4 | System display error message car plate number not found |
| Rules | End user must enter a valid car plate number | |
| Author | Enoch Leong Qi Cong | |

Table 4.1: UC001

| Use Case ID | UC02 | Version | 1.0 | |
|---------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----|--|
| Feature | F002 View total parked hour | | | |
| Purpose | To allow the end user to | To allow the end user to view the total hour of their vehicle parked | | |
| Actor | End User | | | |
| Trigger | End user on the search result page | | | |
| Precondition | End user enters a valid car plate number End user is on search result page | | | |
| Scenario Name | Step | Action | | |

| Main Flow | 1 | System calculate and display the total parked hour | |
|-----------|-----------------------------------------------------------------------|----------------------------------------------------|--|
| Rules | End user must enter valid car plate number, and on search result page | | |
| Author | Enoch Leong Qi Cong | | |

Table 4.2: UC002

| Use Case ID | UC03 | Version | 1.0 |
|------------------|---------------------------------------------------------------------------------------------------------|----------|-----|
| CSC Cuse 12 | 0.000 | V CISION | 1.0 |
| Feature | F003 View parking fees | | |
| Purpose | To allow the end user to view the total calculated parking fees for their vehicle | | |
| Actor | End User | | |
| Trigger | End user on the search result page | | |
| Precondition | End user enters a valid car plate number End user is on search result page | | |
| Scenario Name | Step Action | | |
| Main Flow | 1 System calculate and display the total parking fees | | |
| Rules | End user must enter valid car plate number, and on search result page | | |
| Author | Enoch Leong Qi Cong | | |

Table 4.3: UC003

| Use Case ID | UC04 | Version | 1.0 |
|-------------|------|---------|-----|

| Feature | F004 Make payment | | |
|------------------------|---------------------------------------------------------------------|-----------------------------------------------------|--|
| Purpose | To allow end user to make payment before they go out the parking | | |
| Actor | End User | | |
| Trigger | End user click "Make | Payment" button on the search result page | |
| Precondition | | er a valid car plate number n search result page | |
| Scenario Name | Step | | |
| Main Flow | 1 End user clicks "Proceed to Payment" button | | |
| | 2 | System pop out payment window | |
| | 3 | End user selects desire payment method | |
| | 4 System displays successful message and update database | | |
| Alternate Flow: | 3.1 | End user selects desire payment method | |
| Payment not successful | 3.2 | System displays error message | |
| Rules | End user must have enough balance in their payment method's account | | |
| Author | Enoch Leong Qi Cong | | |

Table4.4: UC004

| Use Case ID | UC05 | Version | 1.0 |
|-------------|------------------------------------|---------|-----|
| Feature | F005 Login | | |
| Purpose | To allow admin login to the system | | |

| Actor | Admin | | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|
| Trigger | Admin clicks the 'Login' button on the login page | | |
| Precondition | The admin is not logged in The admin is on the login page. Admin clicks "Login as Admin" button in car parking system main page | | |
| Scenario Name | Step | Action | |
| Main Flow | 1 | Admin enters credentials such as username and password. | |
| | 2 | Admin clicks the 'Login' button | |
| | 3 | System verifies the credentials entered by the admin. | |
| | 4 | The system redirect customer to the admin dashboard page | |
| Alternate Flow: | 1.1 | Admin enters wrong username and password | |
| Incorrect password or username | 1.2 | Admin clicks the 'Login' button | |
| | 1.3 | System cannot match the username or password | |
| | 1.4 | System display error message wrong username or password | |
| Rules | Admin must enter the correct username and password. | | |
| Author | Enoch Leong Qi Cong | | |

Table 4.5: UC005

| Use Case ID | UC06 Version 1.0 | | | | | | | |
|------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--|--|--|--|
| Feature | F006 Logout | F006 Logout | | | | | | |
| Purpose | To allow admin to | To allow admin to logout from the system. | | | | | | |
| Actor | Admin | Admin | | | | | | |
| Trigger | Admin clicks "Ex | Admin clicks "Exit" button on the admin dashboard page | | | | | | |
| Precondition | The admin logged in. The admin is on the admin dashboard page | | | | | | | |
| Scenario Name | Step Action | | | | | | | |
| Main Flow | 1 | Admin clicks "Exit" button | | | | | | |
| | 2 System redirects the admin back to the car parking system main page | | | | | | | |
| Rules | Admin must be logged in. | | | | | | | |
| Author | Enoch Leong Qi Cong | | | | | | | |

Table 4.6: UC006

| Use Case ID | UC07 | Version | 1.0 | | | |
|-------------|--------------------------------------------------------------------|---------|-----|--|--|--|
| Feature | F007 Add Car to Slot | | | | | |
| Purpose | To allow admin add car plate number to the available car park slot | | | | | |
| Actor | Admin | | | | | |

| Trigger | Admin clicks available car park s lot on the admin dashboard page | | | | |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|--|
| Precondition | The admin logged in to the system The admin is on the admin dashboard page | | | | |
| Scenario Name | Step Action | | | | |
| Main Flow | 1 | Admin clicks "Add Car" button | | | |
| | 2 | System pops out a window | | | |
| | 3 | Admin select the available slot in dropdown box | | | |
| | 4 | Admin enters car plate number | | | |
| | 5 | Admin clicks "Add" button | | | |
| | 6 | System validates the car plate, display add successful message and add to database | | | |
| Alternate Flow: Invalid Car Plate | 4.1 | Admin enters invalid car plate number | | | |
| (Input other than alphabet and number) | 4.2 | System validates the car plate and display error message | | | |
| Rules | Admin must select an available car park slot Admin must enter a valid car plate number | | | | |
| Author | Enoch Leong Qi Cong | | | | |

Table 4.7: UC007

| Use Case ID | UC08 Version 1.0 | | | | | | |
|---------------|---------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------|--|--|--|--|
| Feature | F008 Edit Car Info | | | | | | |
| Purpose | To allow admin to edit the car info for error handling | | | | | | |
| Actor | Admin | Admin | | | | | |
| Trigger | Admin clicks on the used car park slot box | | | | | | |
| Precondition | The admin logged in to the system The admin is on the admin dashboard page | | | | | | |
| Scenario Name | Step Action | | | | | | |
| Main Flow | 1 Admin clicks "Edit Car Info" button | | | | | | |
| | 2 | System p | pops out a window | | | | |
| | Admin select the slot in dropdown box 4 Admin edit car plate number | | | | | | |
| | | | | | | | |
| | 5 Admin clicks "Update Car Info" button | | | | | | |
| | 6 | System v database | validates the car plate, display successful message and update | | | | |

| Alternate Flow: | 4.1 | Admin clicks "Remove Car" button | | |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|--|
| Remove Car | 4.2 | System displays successful message and update database | | |
| Alternate Flow: | 4.1 | Admin enters invalid car plate number | | |
| Invalid Car Plate (Input other than alphabet and number) | 4.2 | System validates the car plate and display error message | | |
| Alternate Flow: | 4.1 | Admin enters duplicate car plate number | | |
| Duplicate Car Plate Input | 4.2 | System validates the car plate and display error message | | |
| Alternate Flow: | 1.1 | Admin clicks "Edit Car Info" button | | |
| No Car Info | 1.2 | System found no data, display error message | | |
| Rules | Admin must select used car park slot Admin must enter a valid car plate number Admin must enter the car plate number does not exist in system System must exists car data | | | |
| Author | Enoch Leong Qi Cong | | | |

Table 4.8: UC08

| Use Case ID | UC09 | Version | 1.0 |
|-------------|------|---------|-----|
|-------------|------|---------|-----|

| Feature | F009 Edit Parking Rate | | | | | |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------|--|--|--|--|
| Purpose | To allo | ow admin to edit the parking rate | | | | |
| Actor | Admin | | | | | |
| Trigger | Admin clicks on the "Edit Car Park Rate" button on the admin dashboard page | | | | | |
| Precondition | The admin logged in to the system The admin is on the admin dashboard page | | | | | |
| Scenario Name | Step Action | | | | | |
| Main Flow | 1 | Admin clicks "Edit Car Park Rate" button | | | | |
| | 2 | System pops out a window | | | | |
| | 3 | Admin edit car park rate | | | | |
| | 4 | Admin clicks "Update Parking Rate" button | | | | |
| | 5 System displays successful message and update database | | | | | |
| | 3.1 | Admin edit car park rate to 0 or less than 0 | | | | |
| Alternate Flow: Invalid Car Park Rate (Cannot be 0 or | 3.2 | Admin clicks "Update Parking Rate" button | | | | |
| less than 0) | 3.3 System display error message | | | | | |

| Rules | Admin must enter a valid car park rate |
|--------|----------------------------------------|
| Author | Enoch Leong Qi Cong |

Table 4.9: UC09

5.0 Use Case Diagram

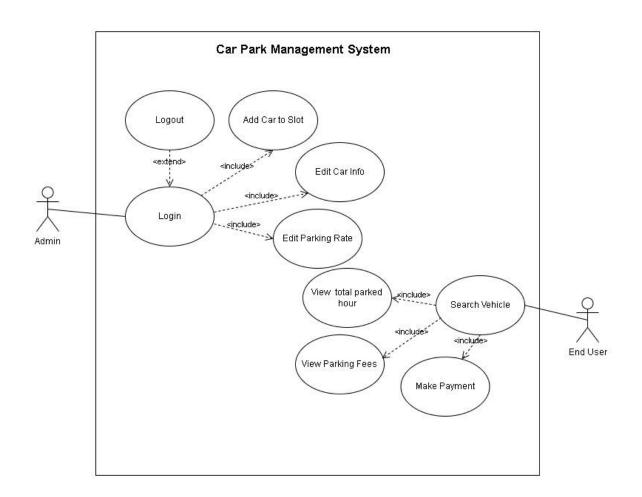


Figure 5.1: Use Case Diagram

(For better visual reference, please refer to:

https://drive.google.com/file/d/13sKdLiweXjXCH9E9zTssKQLCetqpBh2d/view?usp=sharing)

6.0 Medium Fidelity

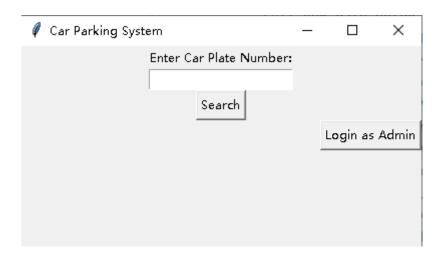


Figure 6.1: Car Parking System Main Page

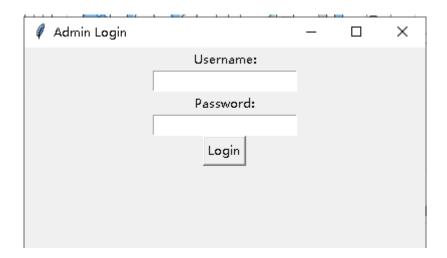


Figure 6.2: Login Page

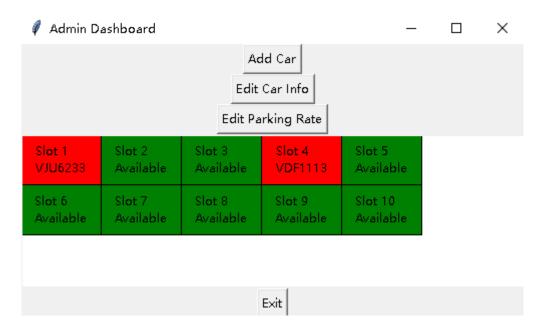


Figure 6.3: Admin Dashboard Page



Figure 6.4: Add Car to Slot Page

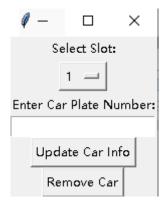


Figure 6.5: Edit Car Info Page



Figure 6.6: Edit Parking Fees Page

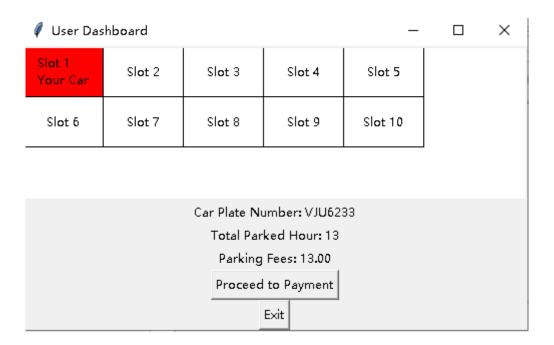


Figure 6.7: Search Result Page

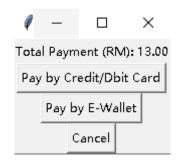


Figure 6.8: Make Payment Page

7.0 Appendices

7.1 UML Diagrams

7.1.1 Class Diagram

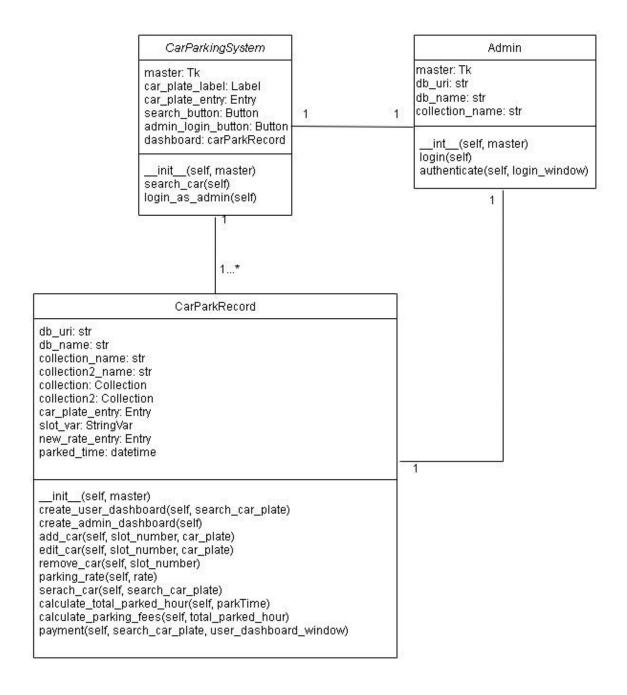


Figure 7.1.1.1: Class Diagram

(For better visual reference, please refer to : https://drive.google.com/file/d/1b-tesfE1YDRhKY2TiDUiGqb9FAYlEgi9/view?usp=sharing)

7.1.2 State Chart Diagram

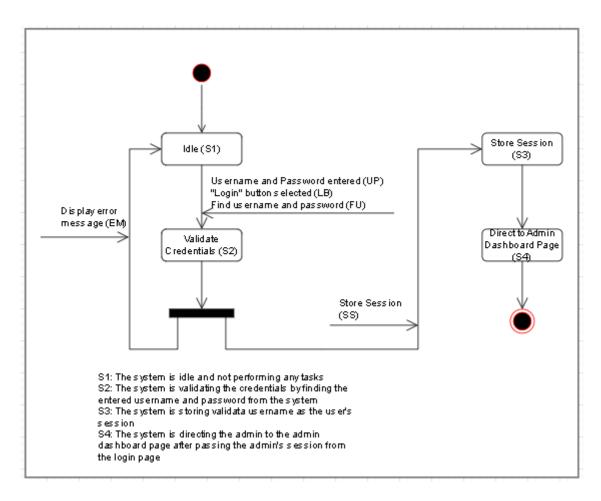


Figure 7.1.2.1: Login

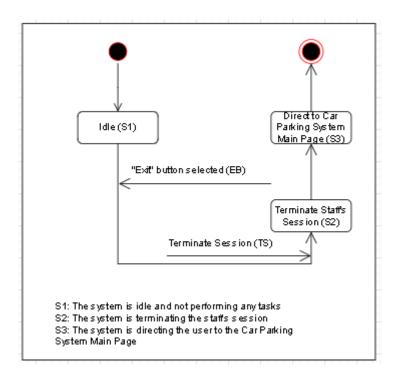


Figure 7.1.2.2: Logout

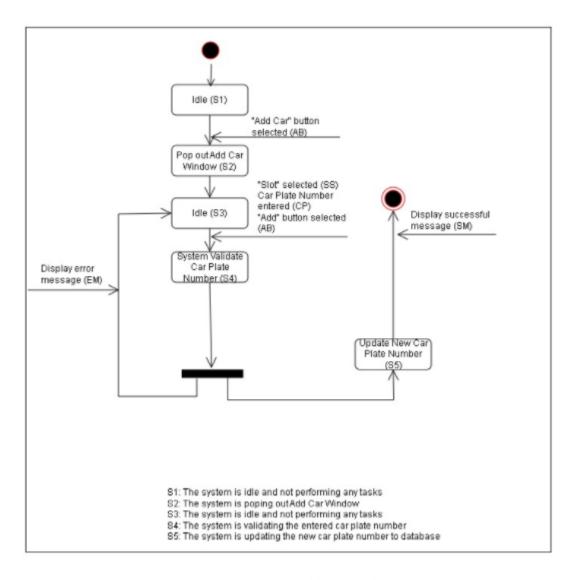


Figure 7.1.2.3: Add Car to Slot

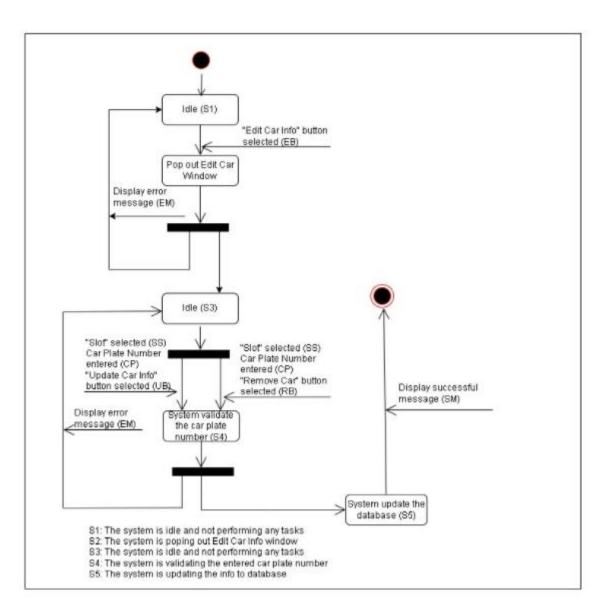


Figure 7.1.2.4: Edit Car Info

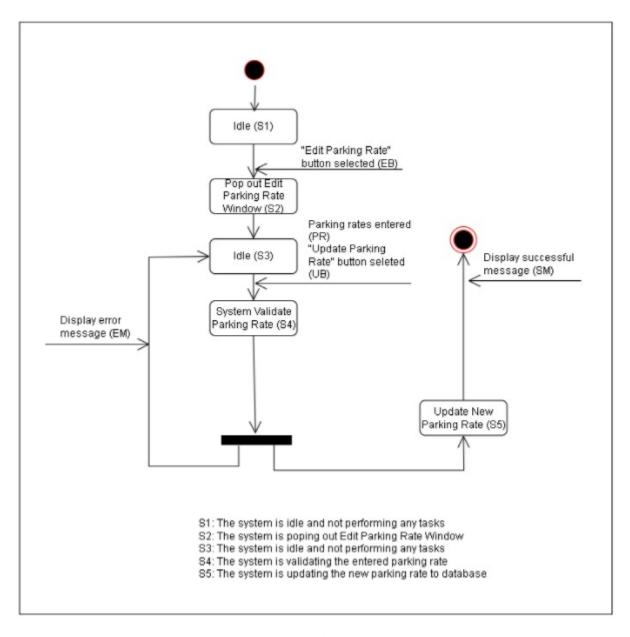


Figure 7.1.2.5: Edit Parking Rate

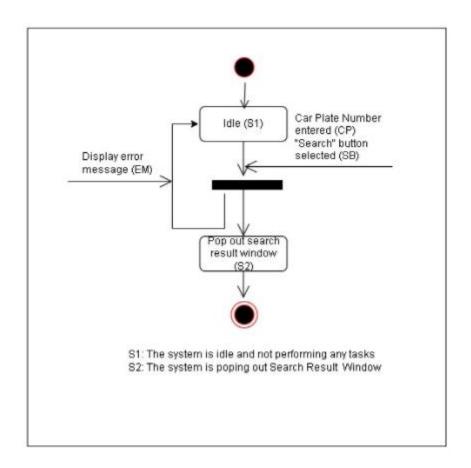


Figure 7.1.2.6: Search Vehicle

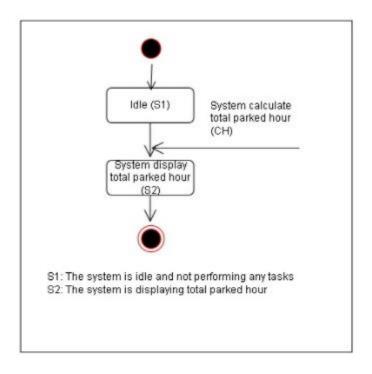


Figure 7.1.2.7: View Total Parked Hour

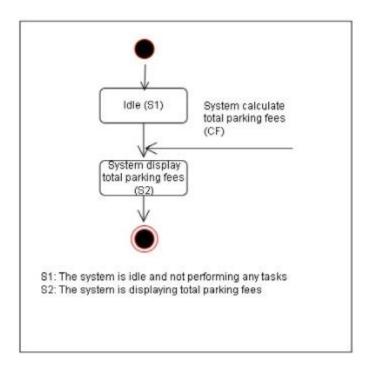


Figure 7.1.2.8: View Parking Fees

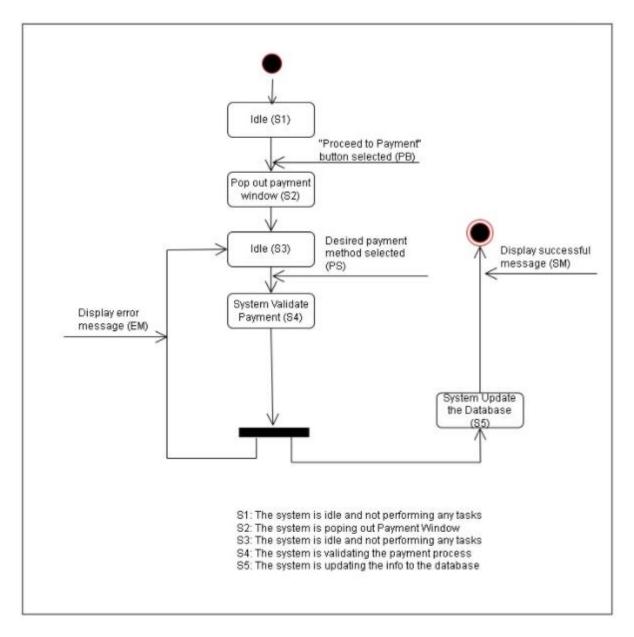


Figure 7.1.2.9: Make Payment

(For better visual reference, please refer to:

https://drive.google.com/file/d/1jWfHX2xa7tB2pjnaJpFyLVLMU9YDnFie/view?usp=sharing)

7.2 Gantt Chart

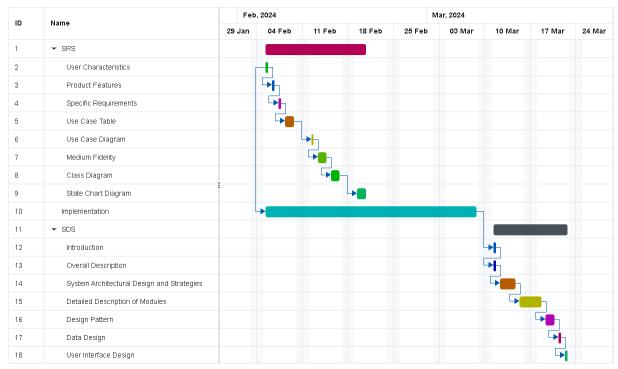


Figure 7.2.1: Gantt Chart

7.3 Log Sheet



| Please tick ✓ | | | | | | | |
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Coursework Progression for Individual Work

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Coursework Progression for Individual Work

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| Code/Implementation look | good. | | | | | | |
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^{*} The form is NOT valid without the lecturer signature. It must be dated and signed.



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Coursework Drogressian for Individual Work

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| the following meeting. | consultation hours by stud | dents and lecturers to trac | k the progress of work do | ne and expectations for | | | | | | |
| Course Details: | | | | | | | | | | |
| Subject Code: XBSE203 | 34N S | ubject Name (e.g. Fundam | entals of Computing): Softw | are Design | | | | | | |
| Course Title (e.g. Bache | elor in Computing) : Bachelo | r of Computer Science (Ho | ons) | | | | | | | |
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| Week: (Please ✓ and write | the actual date) | | | | | | | | | |
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| Enoch | Date: | Date: | Date: | Date: | | | | | | |
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Lecturer/s Acknowledgement and Date:

^{*} The form is NOT valid without the lecturer signature. It must be dated and signed.



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Coursework Progression for Individual Work

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| Course Ti | tle (e.g. Bach | nelor in Computing) : | Bachelor | of Compute | r Science (I | Hons) | | | | |
| Week: (Plea | ase ✓ and writ | te the actual date) | | | | | | | | |
| Wk 1 | Wk 2 | Wk 3 Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | Wk12 |
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