



COVID-19 **CROSS-DISTRICT AND** **CROSS-STATE** **APPLICATION SYSTEM**

Group 2

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Objectives

Implements Object Oriented concepts into the system.



Purposes of the system

#01

Applicants can create the cross-state or cross-district applications.

#02

Applicants can view their applications status.

#03

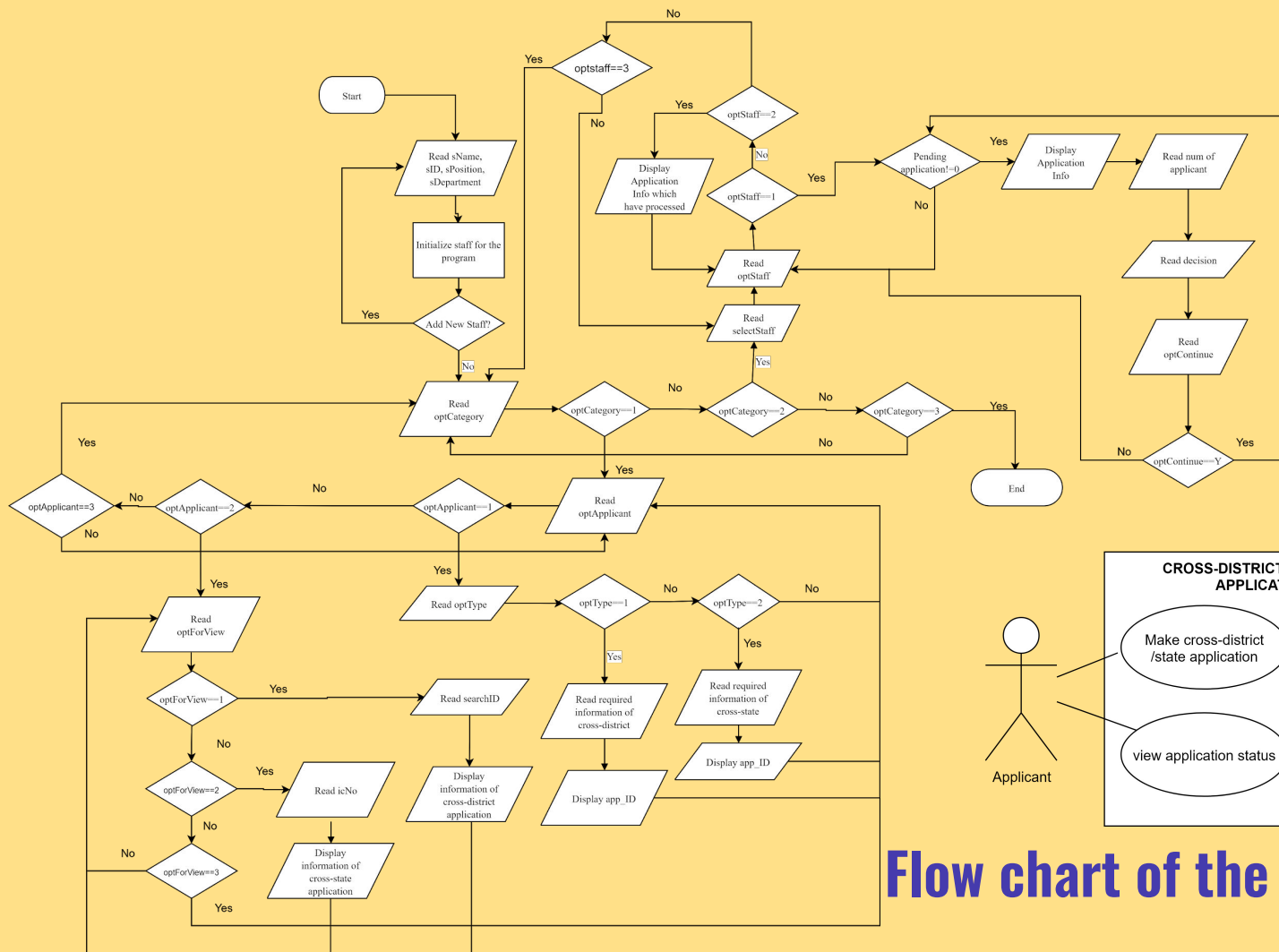
Staff can view all pending applications.

#04

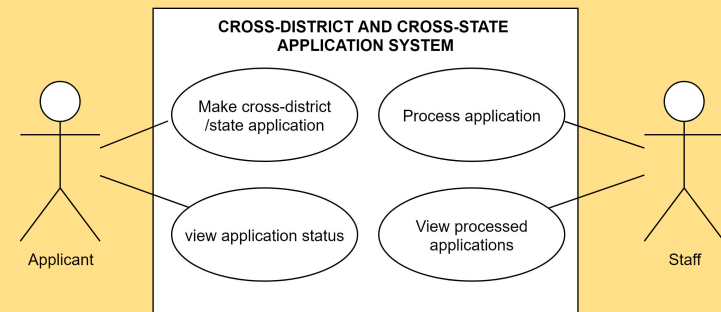
Staff can process all the pending applications either approve or reject the applications.

#05

Staff can keep track of all the applications that have been handled by him.

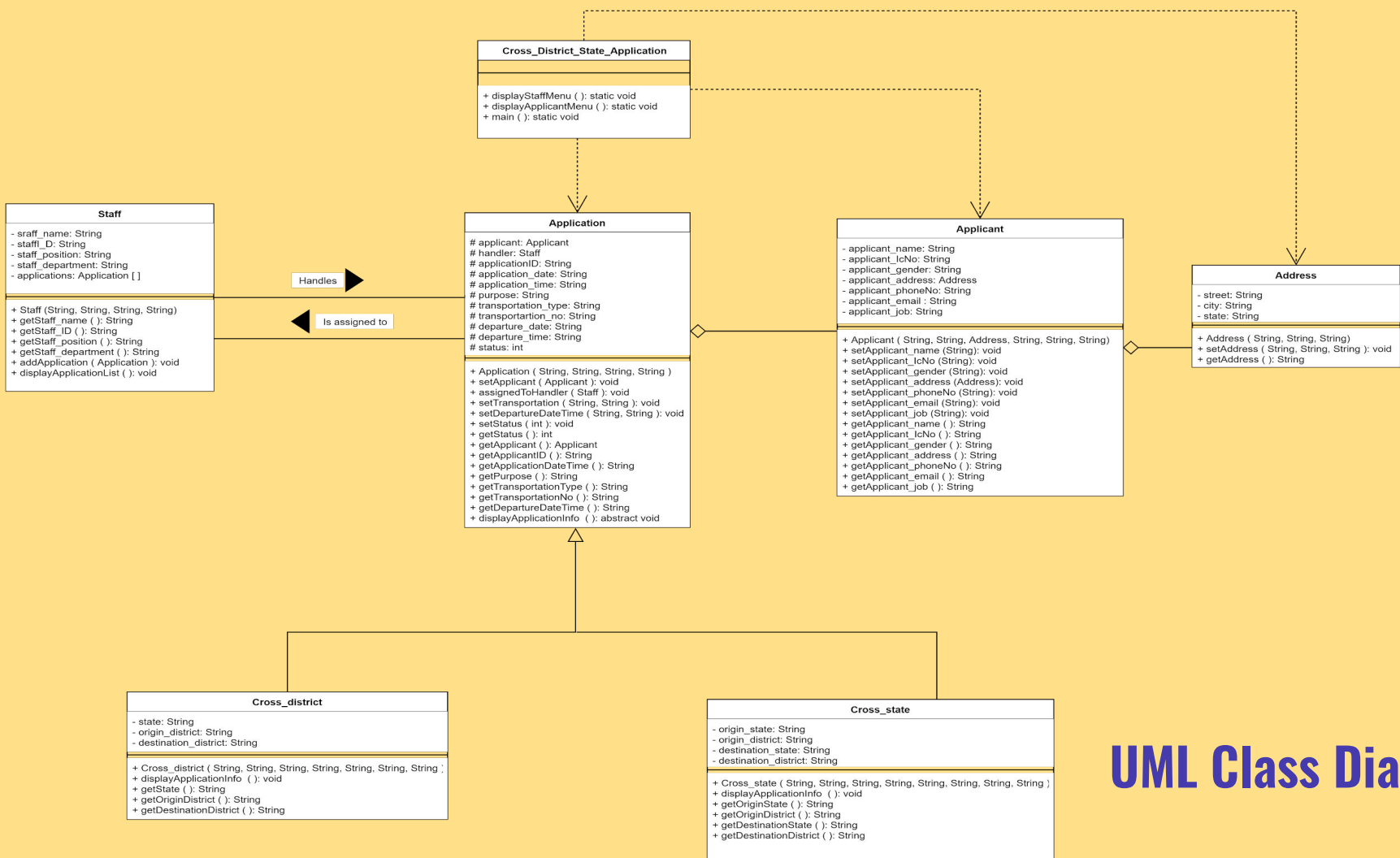


Flow chart of the Proposed System



1. Data hiding & Encapsulation
2. Aggregation
3. Association
4. Inheritance
5. Vector & ArrayList
6. Polymorphism
7. Exception handling
8. Abstract class

Object-Oriented Programming Concepts applied



UML Class Diagram

1

```
<<< Cross-District Or State Application System>>>
```

Before the program gets started, you need to initialize the staff first
Please fill in the following information

Staff name:
Staff ID:
Staff Position:
Staff Department:

Do you still want to add new staff?

Press Y if Yes

Press N if No

Choice:

Staff name:
Staff ID:
Staff Position:
Staff Department:

Do you still want to add new staff?

Press Y if Yes

Press N if No

Choice:

Please select the following user category

1) Applicant

2) Staff

Or

3) Terminate the program

Your category:

2

```
<<<< Applicant Interface >>>>>
```

Please choose the following operations

1) Make a cross-district/state application during Movement Control Order (MCO) period

2) View your application status

3) Return to previous interface

Your operation:

```
<<< Make a cross district/state application >>>
```

Please select either one of the following types of application

1) Cross-district application

2) Cross-state application

Application type :

Please fill in the following information

Name:

IC number:

Gender (M for Male/F for Female):

```
<<< Address >>>
```

Street:

City:

State:

Phone number:

Email address:

Occupation:

Sample Execution of Program

3

```
<<< Information of Application >>>
Application date: 18/06/2021
Application Time: 11.05 pm
Purpose for making this application: To return to UTHM campus

<<< Transportation type >>>
1) Personal vehicle
2) Public transport such as Bus and LRT
3) Flight

Transportation type (1,2 or 3): 1

Please enter the transportation number
For instance

1) Transportation number for personal vehicle=Vehicle's plate Number
2) Transportation number for public transport=Bus Number or LRT Number
3) Transportation number for flight=Flight Number

Transportation number: JH 5078

Please enter your departure date and time

Departure date (DD/MM/YYYY): 23/06/2021
Departure time:
    Please Enter am or pm: pm
    Time in Hour.Minute format: 2.15

<<< Within State >>>
State: Johor
Origin district: Skudai
Destination district: Batu Pahat

Your application is submitted successfully

Your application ID is CD01
```

4

```
<<<< Applicant Interface >>>>
Please choose the following operations
1) Make a cross-district/state application during Movement Control Order (MCO) period
2) View your application status
3) Return to previous interface

Your operation: 1

<<< Make a cross district/state application >>>
Please select either one of the following types of application
1) Cross-district application
2) Cross-state application

Application type : 2

Please fill in the following information

Name: Steven jackson
IC number: 870411075679
Gender (M for Male/F for Female): F

<<< Address >>>
    Street: No.157, Taman No.1
    City: Skudai
    State: Johor

Phone number: 0146816314
Email address: steven@yahoo.com
Occupation: Software engineer
```


Sample Execution of Program

5

<<< Information of Application >>>

Application date: 18/06/2021

Application Time: 11.08 pm

Purpose for making this application: To meet his friend at KL

<<< Transportation type >>>

- 1) Personal vehicle
- 2) Public transport such as Bus and LRT
- 3) Flight

Transportation type (1,2 or 3): 3

Please enter the transportation number

For instance

- 1) Transportation number for personal vehicle=Vehicle's plate Number
- 2) Transportation number for public transport=Bus Number or LRT Number
- 3) Transportation number for flight=Flight Number

Transportation number: Mh 356

Please enter your departure date and time

Departure date (DD/MM/YYYY): 26/06/2021

Departure time:

Please Enter am or pm: am

Time in Hour.Minute format: 10.30

<<< Cross State >>>

Origin State: Johor

Origin district: Skudai

Destination State: Selangor

Destination district: Kuala Lumpur

Your application is submitted successfully

Your application ID is CS01

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<<<< Applicant Interface >>>>

Please choose the following operations

- 1) Make a cross-district/state application during Movement Control Order (MCO) period
- 2) View your application status
- 3) Return to previous interface

Your operation: 2

<<< View Your Application >>>

- 1) Search by Application ID
- 2) Search by Ic Number
- 3) Return to the previous page

Choice (1, 2, or 3): 1

Application ID: CD01

<<<<<Cross District Application>>>>>

Name: Ali bin Abu

ICNo: 960513135678

Address: No.123, Jalan ABC, Skudai, Johor

Gender: Male Phone No: 0123456789

Email: Ali@gmail.com

Job: Postgraduate student

Application ID: CD01

Application Date & Time: 18/06/2021, 11.05 pm

Transportation Type: Personal vehicle

Vehicle No: JH 5078

Origin State: Johor

Origin District:: Skudai

Destination District:: Batu Pahat

Departure Date & Time: 23/06/2021, 2.15 pm

Purpose: To return to UTHM campus

Status: Pending

<<< View Your Application >>>

- 1) Search by Application ID
- 2) Search by Ic Number
- 3) Return to the previous page

Choice (1, 2, or 3): 2

Ic Number: 870411075679

```
<<<<<Cross State Application>>>>>
Name: Steven jackson
ICNo: 870411075679
Address: No.157, Taman No.1, Skudai, Johor
Gender: Female           Phone No: 0146816314
Email: steven@yahoo.com   Job: Software engineer
Application ID: CS01
Application Date & Time: 18/06/2021, 11.08 pm
Transportation Type: Flight      Vehicle No: Mh 356
Origin State: Johor             Origin District:: Skudai
Destination State: Selangor      Destination District:: Kuala Lumpur
Departure Date & Time: 26/06/2021, 10.30 am
Purpose: To meet his friend at KL

Status: Pending

<<< View Your Application >>>
1) Search by Application ID
2) Search by Ic Number
3) Return to the previous page

Choice (1, 2, or 3): 3
Returning to the previous menu

<<<< Applicant Interface >>>>>
Please choose the following operations
1) Make a cross-disctrict/state application during Movement Control Order (MCO) period
2) View your application status
3) Return to previous interface

Your operation: 3
Returning to the previous menu

Please select the following user category
1) Applicant
2) Staff

Or
3) Terminate the program

Your category: 2
```

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Sample Execution of Program

Please select a staff to proceed with the proceeding operations

- 1) Kong Hao Yang
- 2) Loo Zhi Xuen

Staff number:

<<<< Staff Interface >>>>

Please choose the following operations

- 1) Process pending cross-district/state application during Movement Control Order (MCO) period
- 2) View applications processed by you
- 3) Return to previous interface

Your operation:

No	App Type	App ID	App DateTime	Name	IC No	Occupation	Purpose
1	Cross-district	CD01	18/06/2021, 11.05 pm	Ali bin Abu	960513135678	Postgraduate student	To return to UTHM campus
2	Cross-state	CS01	18/06/2021, 11.08 pm	Steven jackson	870411075679	Software engineer	To meet his friend at KL

Enter the No of the application to be processed:

<<<<<<Cross State Application>>>>>>

Name: Steven jackson

ICNo: 870411075679

Address: No.157, Taman No.1, Skudai, Johor

Gender: Female

Phone No: 0146816314

Email: steven@yahoo.com

Job: Software engineer

Application ID: CS01

Application Date & Time: 18/06/2021, 11.08 pm

Transportation Type: Flight

Vehicle No: Mh 356

Origin State: Johor

Origin District:: Skudai

Destination State: Selangor

Destination District:: Kuala Lumpur

Departure Date & Time: 26/06/2021, 10.30 am

Purpose: To meet his friend at KL

Status: Pending

Do you want to approve or reject this application

1) A for Approve

2) R for Reject

Or

3) C for Cancel this operation

Your decision:

Canceling this operation

Do you still want to process another application

Press Y if Yes

Press N if No

Your choice: Y

No	App Type	App ID	App DateTime	Name	IC No	Occupation	Purpose
1	Cross-district	CD01	18/06/2021, 11.05 pm	Ali bin Abu	960513135678	Postgraduate student	To return to UTHM campus
2	Cross-state	CS01	18/06/2021, 11.08 pm	Steven jackson	870411075679	Software engineer	To meet his friend at KL

Enter the No of the application to be processed:

<<<<<Cross District Application>>>>>

Name: Ali bin Abu

ICNo: 960513135678

Address: No.123, Jalan ABC, Skudai, Johor

Gender: Male Phone No: 0123456789

Email: Ali@gmail.com Job: Postgraduate student

Application ID: CD01

Application Date & Time: 18/06/2021, 11.05 pm

Transportation Type: Personal vehicle Vehicle No: JH 5078

Origin State: Johor Origin District:: Skudai

Destination District:: Batu Pahat

Departure Date & Time: 23/06/2021, 2.15 pm

Purpose: To return to UTHM campus

Status: Pending

Do you want to approve or reject this application

1) A for Approve

2) R for Reject

Or

3) C for Cancel this operation

Your decision:

Do you still want to process another application

Press Y if Yes

Press N if No

Your choice:

<<<< Staff Interface >>>>

Please choose the following operations

1) Process pending cross-district/state application during Movement Control Order (MCO) period

2) View applications processed by you

3) Return to previous interface

Your operation:

Staff name: Kong Hao Yang

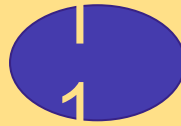
Staff ID: S001

Staff position: Inspector

Staff department: Police Station Skudai

No.	Name	IC No	App Type	App ID	Purpose	App Date Time	Status
1	Ali bin Abu	960513135678	Cross-district	CD01	To return to UTHM campus	18/06/2021, 11.05 pm	Approved

Press Enter to continue...



Sample Execution of Program

```
<<<< Staff Interface >>>>
Please choose the following operations
1) Process pending cross-district/state application during Movement Control Order (MCO) period
2) View applications processed by you
3) Return to previous interface

Your operation: Your input is not an Integer.Please try again

Your operation: 3
Returning to the previous menu

Please select the following user category
1) Applicant
2) Staff

Or
3) Terminate the program

Your category: 2

Please select a staff to proceed with the proceeding operations
1) Kong Hao Yang
2) Loo Zhi Xuen

Staff number: 2

<<<< Staff Interface >>>>
Please choose the following operations
1) Process pending cross-district/state application during Movement Control Order (MCO) period
2) View applications processed by you
3) Return to previous interface

Your operation: 1
```

No	App Type	App ID	App DateTime	Name	IC No	Occupation	Purpose
1	Cross-state	CS01	18/06/2021, 11.08 pm	Steven jackson	870411075679	Software engineer	To meet his friend at KL

Enter the No of the application to be processed: 1

<<<<<Cross State Application>>>>>

Name: Steven jackson
 ICNo: 870411075679
 Address: No.157, Taman No.1, Skudai, Johor
 Gender: Female Phone No: 0146816314
 Email: steven@yahoo.com Job: Software engineer
 Application ID: CS01
 Application Date & Time: 18/06/2021, 11.08 pm
 Transportation Type: Flight Vehicle No: Mh 356
 Origin State: Johor Origin District:: Skudai
 Destination State: Selangor Destination District:: Kuala Lumpur
 Departure Date & Time: 26/06/2021, 10.30 am
 Purpose: To meet his friend at KL

Status: Pending

Do you want to approve or reject this application

1) A for Approve
 2) R for Reject
 Or
 3) C for Cancel this operation

Your decision: R

Do you still want to process another application
 Press Y if Yes
 Press N if No

Your choice: N


```

<<<< Staff Interface >>>>
Please choose the following operations
1) Process pending cross-district/state application during Movement Control Order (MCO) period
2) View applications processed by you
3) Return to previous interface

Your operation: 2
Staff name: Loo Zhi Xuen
Staff ID: S002
Staff position: Inspector
Staff department: Police Station Skudai

```

No.	Name	IC No	App Type	App ID	Purpose	App Date Time	Status
1	Steven jackson	870411075679	Cross-state	CS01	To meet his friend at KL	18/06/2021, 11.08 pm	Rejected

```

Press Enter to continue...

<<<< Staff Interface >>>>
Please choose the following operations
1) Process pending cross-district/state application during Movement Control Order (MCO) period
2) View applications processed by you
3) Return to previous interface

Your operation: Your input is not an Integer.Please try again

Your operation: 3
Returning to the previous menu

Please select the following user category
1) Applicant
2) Staff

Or
3) Terminate the program

Your category: 1

```



```
<<<< Applicant Interface >>>>
Please choose the following operations
1) Make a cross-district/state application during Movement Control Order (MCO) period
2) View your application status
3) Return to previous interface

Your operation: 2

<<< View Your Application >>>
1) Search by Application ID
2) Search by Ic Number
3) Return to the previous page

Choice (1, 2, or 3): 1
Application ID: CS01

<<<<<Cross State Application>>>>>
Name: Steven jackson
ICNo: 870411075679
Address: No.157, Taman No.1, Skudai, Johor
Gender: Female           Phone No: 0146816314
Email: steven@yahoo.com   Job: Software engineer
Application ID: CS01
Application Date & Time: 18/06/2021, 11.08 pm
Transportation Type: Flight           Vehicle No: Mh 356
Origin State: Johor                 Origin District:: Skudai
Destination State: Selangor         Destination District:: Kuala Lumpur
Departure Date & Time: 26/06/2021, 10.30 am
Purpose: To meet his friend at KL

Status: Rejected

Processed by Loo Zhi Xuen

Position: Inspector

Department: Police Station Skudai
```

15

```
<<<< Applicant Interface >>>>
Please choose the following operations
1) Make a cross-district/state application during Movement Control Order (MCO) period
2) View your application status
3) Return to previous interface

Your operation: 3
Returning to the previous menu

Please select the following user category
1) Applicant
2) Staff

Or
3) Terminate the program

Your category: 3

Thank you for using the program
Press any key to continue . . .
```

THANKS!

Do you have any questions?