

CRITICAL ANALYSIS REPORT

2020-REG-WE-22

SLIIT (Case Study in Software Engineering)

Group Members

Group ID: 2020-REG-WE-22

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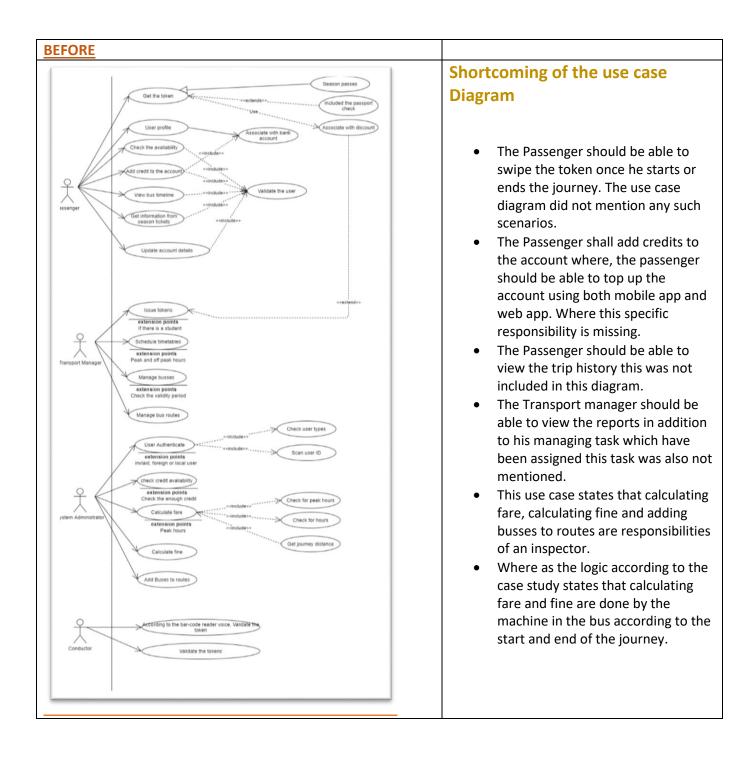
Contents

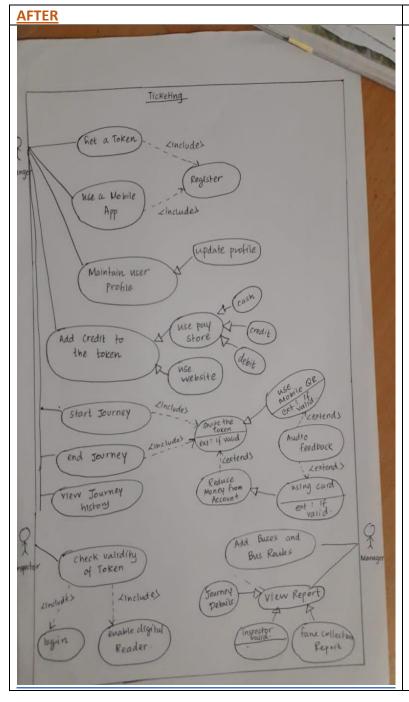
INTRODUCTION

The Critical Evaluation Report is prepared based on a project which was designed by group 21. The short coming of the project logic were sorted according to the general project specification which was provided. The project was critically evaluated and the report has been prepared.

SHORTCOMINGS IN UML LOGIC

Use case

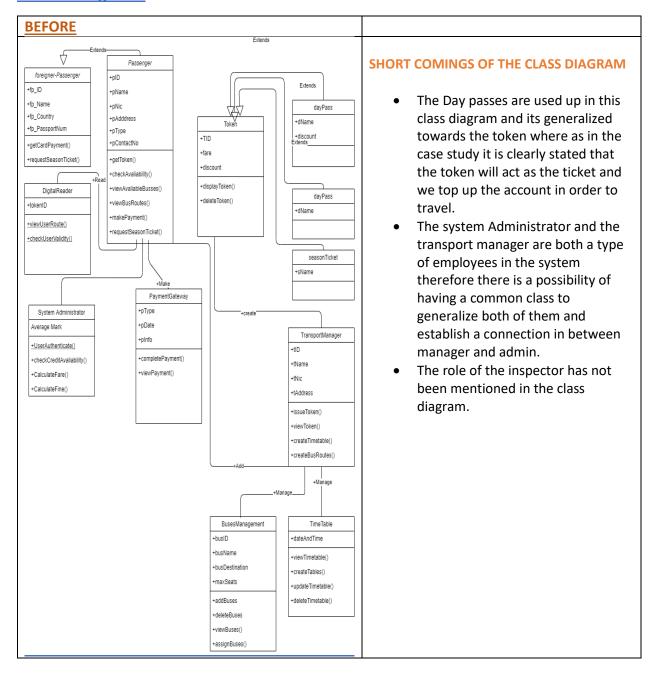


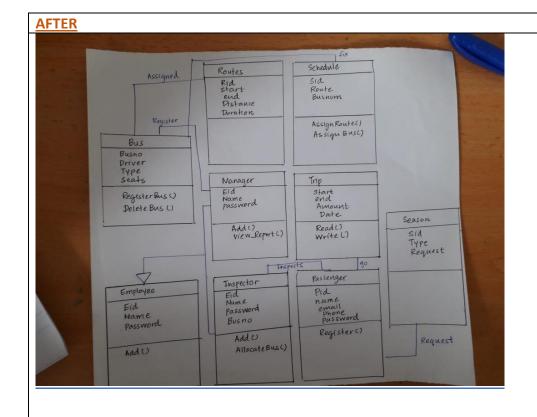


THE UPDATED CONTENTS

- In this Diagram the payment done in order to top up a token has been clearly elaborated.
- The Token swiping mechanism has been shown in this diagram.
- The inspector unwanted functionalities of the inspector has been removed in this.
- The Manager being able to view the reports has been mentioned.

2.Class diagrams

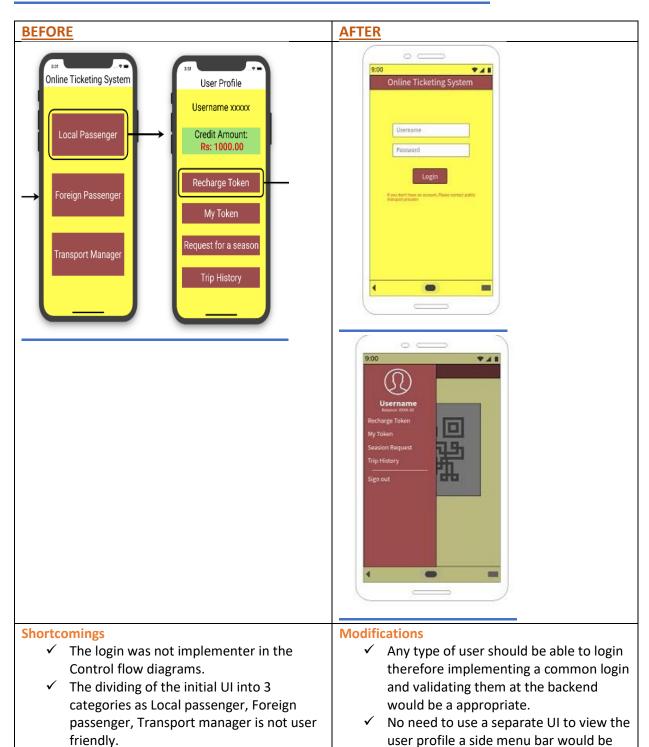




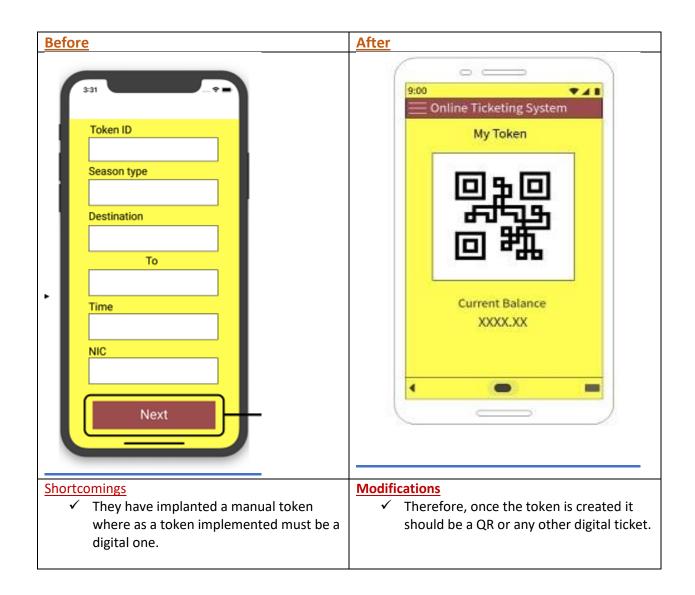
MODIFIED CLASS DIAGRAM

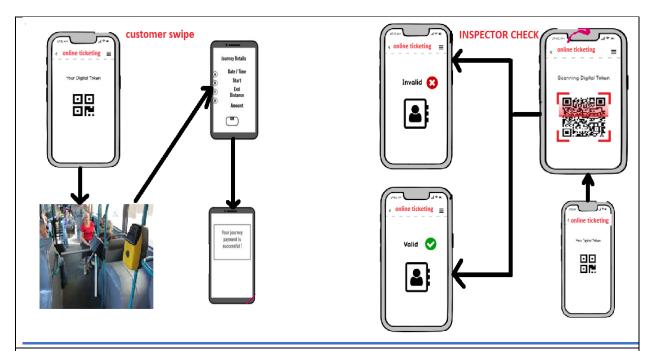
- An Employee class has been used as a base class for both manager and inspector.
- There is no Admin specific task in the case study, therefore manager is taken up as the only person for managing certain task.

SHORTCOMINGS IN WIREFRAMES



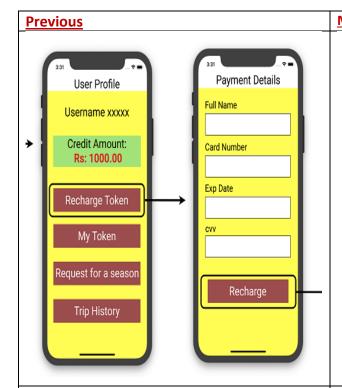
more appropriate and user friendly.

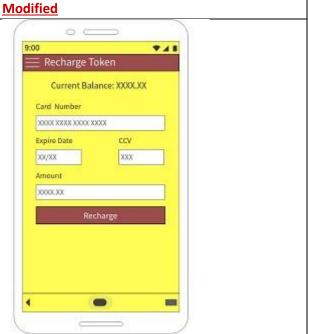




Un implemented functionality

- ✓ The involvement of QR was not considered in the previous version therefore we designed a set of QR flows for both the passenger and Inspector.
- ✓ Where as the passenger will extract the details of the start and end of the journey when the token is swiped on the bus scanner.
- ✓ The process in which the inspector been validated is not mentioned in any of the UI.



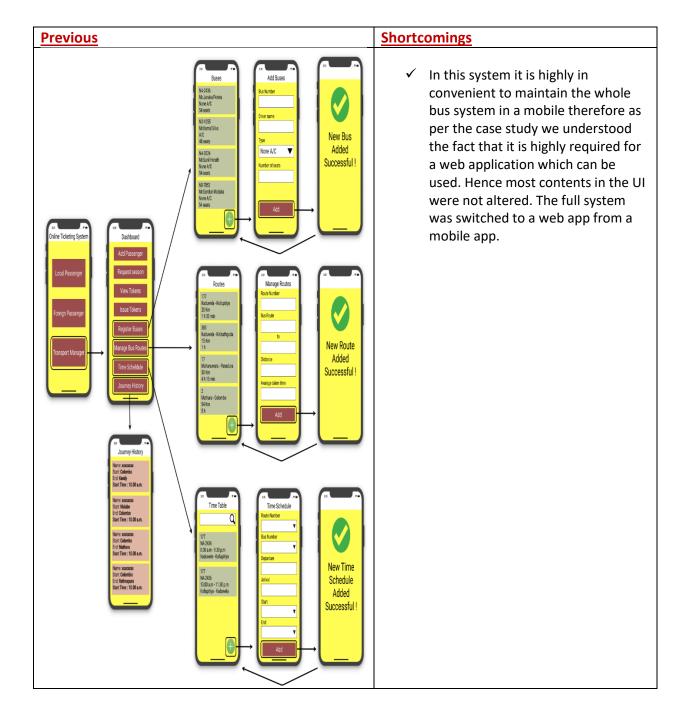


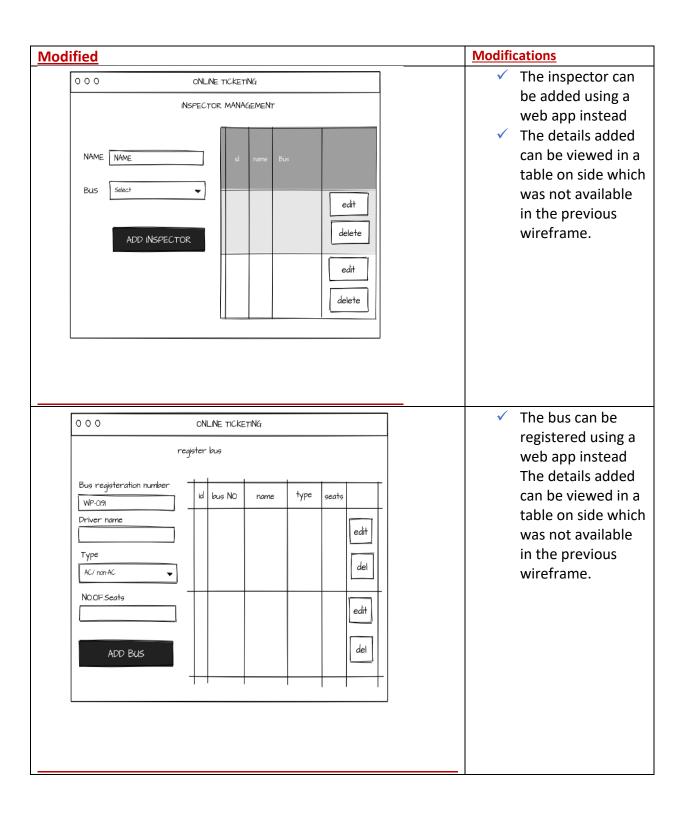
shortcomings

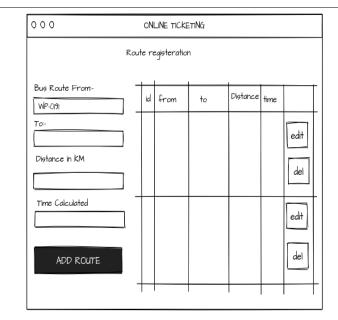
- The payment UI has been prepared and it the full name has been asked which is in appropriate.
- ✓ According to the UI implemented the passenger will have to pay the whole credit amount in one single payment therefore this was not logically withstanding the case study, where as the passenger should be able to pay the amount what he/she desires.

Modified

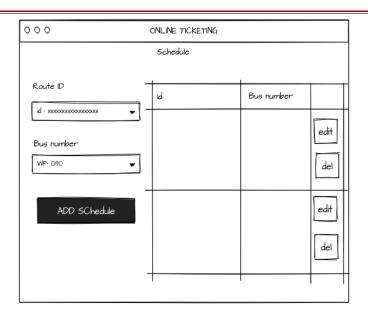
- ✓ The new payment UI was prepared omitting the full name .
- ✓ The passenger will be able to pay the amount which he/she wanted to pay. Paying multiple times in order to settle the full amount is ensured.







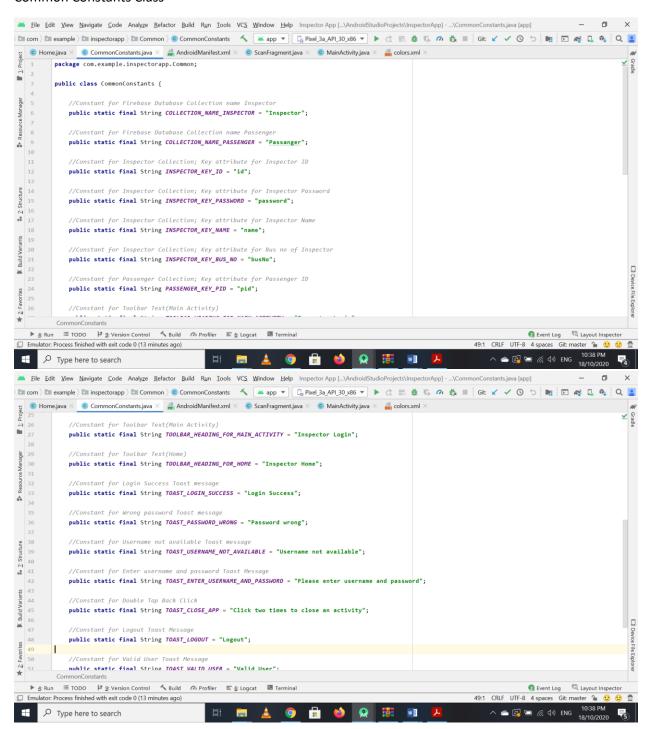
✓ The route can be allocated using a web app instead The details added can be viewed in a table on side which was not available in the previous wireframe.



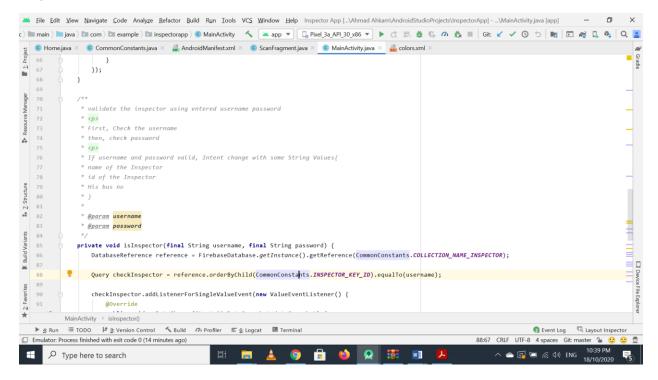
✓ The schedule can be assigned using a web app instead The details added can be viewed in a table on side which was not available in the previous wireframe.

Code Refactors

Common Constants Class



Proper Comments



Test Cases

Test	Test	Te	st Steps	Test Data	Expected	Actual
Case ID	Scenario				Results	Result
TU01	Check	1.	Go to mobile app	Username=malith@gmail.com	User should	As
	customer	2.	Enter username	Password=malith123	login into	expected
	login with	3.	Enter password		an mobile	
	valid data	4.	Click Login		application	
TU02	Check	1.	Go to mobile app	Username=malith	User should	As
	customer	2.	Enter invalid	Password=123	not login	expected
	login with		username		into an	
	invalid data	3.	Enter invalid		mobile	
			password		application	
		4.	Click Login			
TU03	Recharge	1.	Go to the mobile	Card Number=451-1001-	Recharge	As
	the token		application	3452-16	the Token	expected
	with valid	2.	Enter Card	Expire Date=20/12	with Rs.100	
	data		Number	CCV=444		
		3.	Enter Expire Date	Amount=100		
		4.	Enter CCV			
		5.	Enter Amount			
		6.	Click Recharge			
TU04	Recharge	1.	Go to the mobile	Card Number=451-1001-	Not	As
	the token		application	3452-15S	Recharge	expected
	with invalid	2.	Enter invalid	Expire Date=20/12	the Token	
	data		Card Number	CCV=444	with RS.100	
		3.	Enter Expire Date	Amount=100		
		4.	Enter CCV			
		5.	Enter Amount			
		6.	Click Recharge			
TU05	Request	1.	Go to the mobile	Session Type=office package	User's	As
	the session		application	Any special Request=every	session	expected
	with valid	2.	Select the	day I travel , so I want to	Request is	
	data		Session Type	session	successfully	
		3.	Enter the special		send.	
			request			
		4.	Click send			
TU06	Request	1.	Go to the mobile	Session Type=null	User's	As
	the session		application	Any special Request=every	session	expected
	with invalid	2.	Not Select the	day I travel , so I want to	Request is	
	data		Session Type	session	not	
		3.	Enter the special		successfully	
			request		send.	
		4.	Click send			

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Result
TU07	Check Inspector login with valid data	 Open Inspector app Enter username Enter password Click Login 	Username = "P025" Password = "perera123"	User should login into app and toast message prompt.	As expected
TU08	Check Inspector login with invalid data	 Open Inspector app Enter username Enter password Click Login 	Username = "ABC12" Password = "123t1"	User can't login into app	As expected
TU09	Check valid qr code in Inspector app	 Login to passenger app Scan passenger qr code in inspector app 	Passenger QR code	Valid passenger with a success message	As expected
TU10	Check invalid qr code in Inspector app	 Login to passenger app Scan passenger qr code in inspector app 	Passenger QR code	Invalid passenger with a error message and "Beep" sound.	As expected

TU11	Check valid passenger when entering the bus and exit the bus.	2.	Passenger open the token interface in phone. Scan the token with the scanner in the bus.	Passenger QR code	Valid passenger with a "Welcome" Message tone. And when passenger gets down "good bye" tone played.	As expected
TU12	Check invalid passenger when entering the bus and exit the bus.	2.	Passenger open the token interface in phone. Scan the token with	Passenger QR code	Invalid passenger when entering or exit "Beep" Sound.	As expected
TU13	Check valid passenger with balance higher than the minimum amount when entering the bus .		Passenger scan the token. Check for the valid passenger. Check the balance.	Passenger QR code.	Valid passenger with the amount more than the initial minimum amount. "Welcome" Tone.	As expected
TU14	Check valid passenger with balance lower than the minimum amount when entering the bus .	 2. 3. 	Passenger scan the token. Check for the valid passenger. Check the balance.	Passenger QR code	Valid passenger with the amount lesser than the initial minimum amount. "Beep" Tone.	As Expected.
TU15	Check Admin Login with valid details	1.	Check Admin Login with valid details	AdminEmail: hranasinghe97@gmail.com Password:gtgtgddt2	Admin Log in to the application	As expected

TU16	Add Bus to the system	1. Go to site 2.Go to Add new bus 3.Enter Valid details 4.Click add bus button	Bus Name:Sinhagiri Bus Number:WQ-2030 Bus type:AC Inspector:Kasun Rajitha Route ID:177 Seat Capacity:45 Driver Name:Liyange Departure Time:12.00am Journey date:12/2/2020 Start Location:Matara End Location:Galle Dropping Points:Weligama	Bus added to the system	As expected
TU17	Add Inspector	1.Go to inspectors 2.Click add inspector button 3.Enter inspector name 4.add inspector button click	Name:Vikum gunasinghe	Inspector added to the system	As expected
TU18	Check Admin Login with valid details	Check Admin Login with valid details	AdminEmail: hranasinghe97@gmail.com Password:	Admin Log in to the application	Admin can't log In to the system because password is wrong
TU19	Add Bus to the system	1.Go to site 2.Go to Add new bus 3.Enter Valid details 4.Click add bus button	Bus Name:Sinhagiri Bus Number: Bus type:AC Inspector:Kasun Rajitha Route ID:177 Seat Capacity:45 Driver Name:Liyange Departure Time:12.00am Journey date:12/2/2020 Start Location:Matara End Location:Galle Dropping Points:Weligama	Bus added to the system	Bus didn't add because bus number is empty

TU20	Add passenger in to the system	1.go to site 2.click add passenger 3.enter details 4.click add passenger	Name:kasun Ranasinghe Email:kasun@gmail.com PNumber:0718774656 NIC:987654321V Amount:1000 Password:1234 Confirm pass:12345678	Add passenger in to the system	Passenger did't add because password is not matching
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Implemented UI

