Black Box testing - Equivalence class and Boundary Value

Requesting for a delivery/ride service - equivalence class testing

| Input test (current wallet amount >= delivery/ride fee) (delivery/ride fee > 0) (user must not has a current request or be in an active ride) (from and to must both be valid google locations)						Expected	Actual
current wallet amount	delivery/ ride fee	user has a current request	user is in active ride	From	To		
100	5	No	No	Nanyang Drive, NTU North Spine Plaza, Singapore	Airport Boulevard, Changi Airport (SIN), Singapore	Submit request success.	Submit request success.
10	20	No	No	Nanyang Drive, NTU North Spine Plaza, Singapore	Airport Boulevard, Changi Airport (SIN), Singapore	error: Insufficient fund	error: Insufficient fund
100	-5	No	No	Nanyang Drive, NTU North Spine Plaza, Singapore	Airport Boulevard, Changi Airport (SIN), Singapore	error: Please enter a valid price	error: Please enter a valid price
_	_	Yes	No	_	_	Directed to waiting pickup page	Directed to waiting pickup page
_	_	No	Yes	_	_	Directed to active ride page	Directed to active ride page
100	5	No	No	aaa (invalid place)	Airport Boulevard, Changi Airport (SIN), Singapore	error: Please enter valid start and end locations	error: Please enter valid start and end locations
100	5	No	No	Nanyang Drive, NTU North	aaa (invalid place)	error: Please enter valid	error: Please enter valid

				Spine Plaza, Singapore		start and end locations	start and end locations

Requesting for a delivery/ride service - boundary value testing

Input test		Expected	Actual
current wallet amount (wallet >= delivery/ride fee)	delivery/ride fee (0 < fee)		
100	100	Submit request success.	Submit request success.
100	100.01	error: Insufficient fund	error: Insufficient fund
100	99.99	Submit request success.	Submit request success.
100	-0.01	error: Please enter a valid price	error: Please enter a valid price
100	0	error: Please enter a valid price	error: Please enter a valid price
100	0.01	Submit request success.	Submit request success.

White Box testing - Basis path testing

White box 1 - Sign up
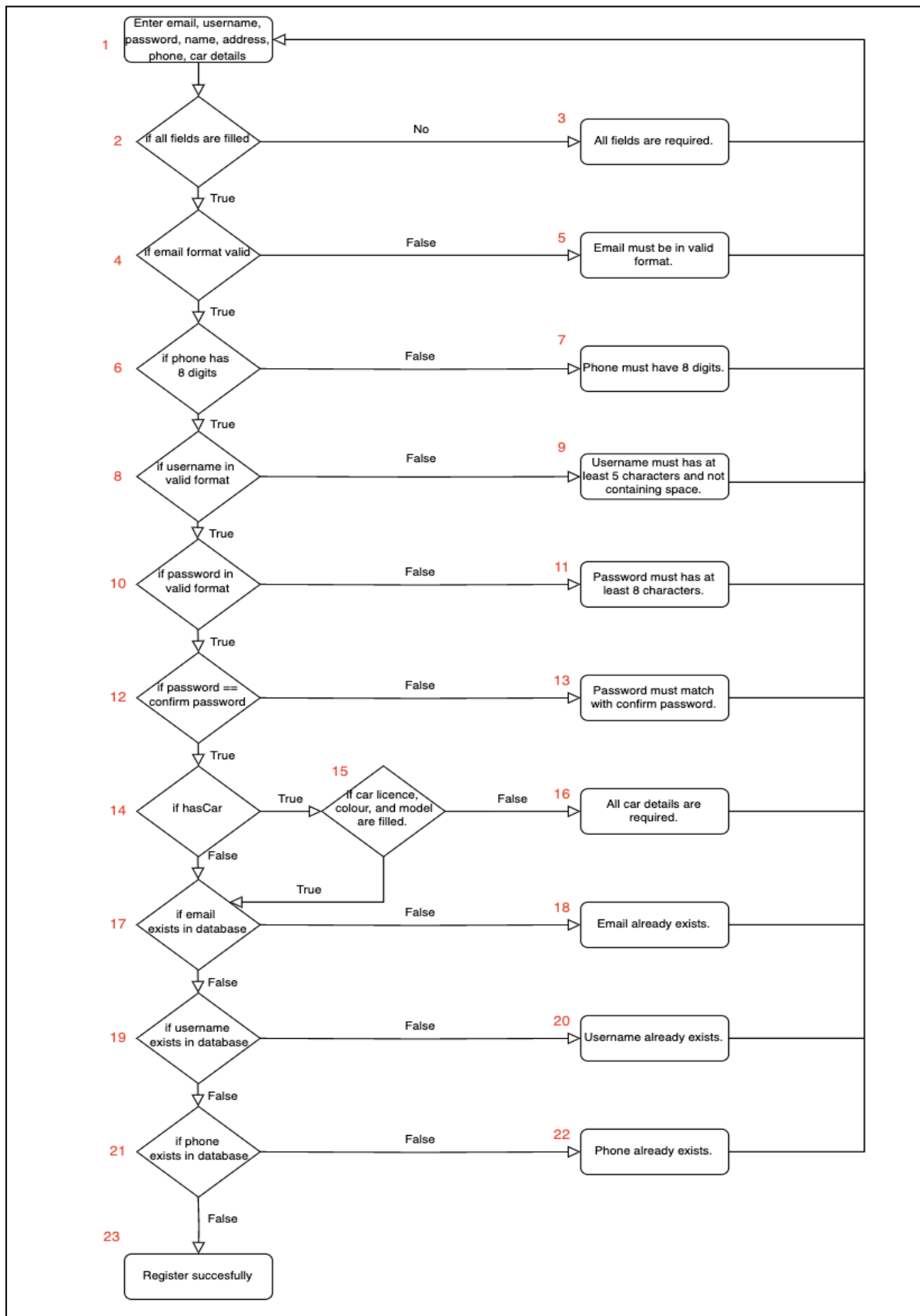
Cyclomatic complexity = 11 (binary decision point) + 1 = 12

There are 12 basis paths.

Path no.	Path	Inputs	email in database	username in database	phone in database
1 (baseline)	1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	No	No	No
2	1,2,3 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: (blank) Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	_	_	_
3	1,2,4,5, 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: notEmailFormat Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	_	_	_
4	1,2,4,6,7 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 1234567 Address: Hall 2 hasCar: No	_	_	_
5	1,2,4,6,8,9 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user 001 Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	_	_	_
6	1,2,4,6,8,10,11 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: user001@gmail.com Password: 1234567 Confirm Password: 1234567 Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	_	_	_
7	1,2,4,6,8,10,12,13, 1,2,4,6,8,10,12,14,	Username: user001 Email: user001@gmail.com	_	_	_

#					
	16,17,19,21,23	Password: password Confirm Password: password2 Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No			

8	1,2,4,6,8,10,12,14,
	15,17,19,21,23
		Username: user001
		Email: user001@gmail.com
		Password: password
		Confirm Password: password
		Name: user001
		Phone: 12345678
		Address: Hall 2
		hasCar: Yes
		  - car licence: SSS1111
		  - car colour: Red
		  - car model: Tesla 3
			No	No	No

9	1,2,4,6,8,10,12,14,
	15,16,
	1,2,4,6,8,10,12,14,
	15,17,19,21,23
		Username: user001
		Email: user001@gmail.com
		Password: password
		Confirm Password: password
		Name: user001
		Phone: 12345678
		Address: Hall 2
		hasCar: Yes
		  - car licence: SSS1111
		  - car colour: Red
		  - car model: (blank)
			_	_	_

10	1,2,4,6,8,10,12,14, 16,17,18, 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: existingUser Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	Yes	No	No
11	1,2,4,6,8,10,12,14, 16,17,19,20, 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: existingEmail@gmail.com Password: password Confirm Password: password Name: user001 Phone: 12345678 Address: Hall 2 hasCar: No	No	Yes	No
12	1,2,4,6,8,10,12,14, 16,17,19,21,22, 1,2,4,6,8,10,12,14, 16,17,19,21,23	Username: user001 Email: user001@gmail.com Password: password Confirm Password: password Name: user001 Phone: 44448888 Address: Hall 2 hasCar: No	No	No	Yes

White box 2 - Delivery/Ride waiting and cancel request
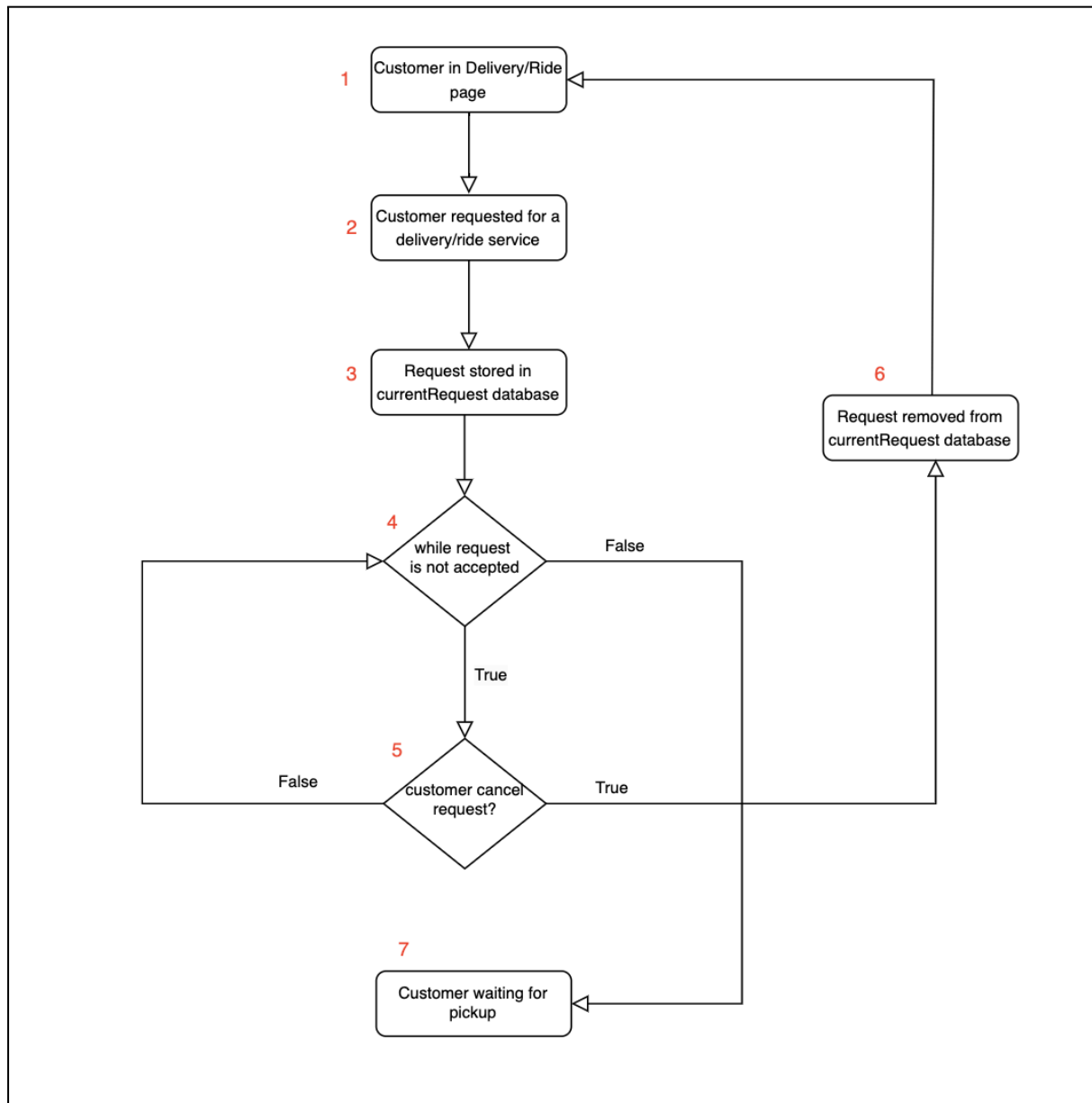
Cyclomatic complexity = 2 (binary decision points) + 1 = 3

There are 3 basis paths.

Path. No	Path	While request is not accepted	Customer cancel request
1 (baseline)	1,2,3,4,7	False	_
2	1,2,3,4,5,4,7	True	False
3	1,2,3,4,5,6, 1,2,3,4,7	True	True