

Requirement ID	Use Cases	Classes	Methods	Packages	Build Number
1.0	User places an order, gaining a QR code on their app to be scanned by a participating store's staff to pair the user's account to an RFID-fitted cup; the system will update the database, changing this cup's status to 'in use'.	User	generateQRCode	cupdata	
		Cup	updateCupStatus		
		Order			
1.1	user with an active and paid subscription to the app selects a participating coffee shop at which they are about to make an order which provides a QR code for access to the reusable cup service.	user	generateQRCode	userData	
		coffeeShop		cupData	
1.3	unsubscribed user may navigate to 'subscriptions' in the app UI to subscribe and gain access to paid service features.	user	subscriptionStatus	subscriptionService	
		subscriptionOptions	makePayment		
2	ensure the system can facilitate up to 10000 concurrent users at any given time	userManagement	databaseQueries	systemStability	
		dataStorage			
2.1	Ensure the app is cross compatible across iOS and Android	userInterface	systemCompatability	compatabilityComponents	
		coreFunctionality	dataExchange		
2.2	Subscribed user may join the loyalty program of a participating coffee shop facilitated through the app	user	subscriptionStatus	userData	
		loyaltyProgram	loyaltyStatus	cafeData	
		user	makePayment		
		cafe			
2.5	Upon damaging or losing a cup, verified by staff or the cup status not updating to 'returned', a fee will be charged to the user designated to the	cup	userStatus	userData	
		user	makepayment	cupdata	
			cupStatus		