		- to give full screen feel - getsupportactionbar.hide()			
		- to give rull screen leef - getsupportactionbar.nide() - in Check login, remove parse.getAutomaticUser()			
		<ul> <li>use @string to be able to rename variables</li> </ul>		infoTextView shows "TextView" when opening app for first time.	
	Misc Notes:	- resume at 21:38, 18:21, 31:50	change lastKnownLocation using Location Manager to mention "GPS_PROVIDER"	- How I got this: Brand new emulator	
		Change login tab to login screen w Username and Pwd.		Problem occurs because of same ID (name) when loggin in as user and	
		<ul> <li>It is easier to follow and debug this way.</li> </ul>		student	
		<ul> <li>Using the 'back' button and 'logout' button cause problems otherwise.</li> </ul>	Added username to the ListView in line 92 in ViewRequestsActivity.java	<ul> <li>Logging out logs out the user, but we cannot log back in as that user to see in the app</li> </ul>	
		Excessive logging problem caused by AndroidX	Added dsername to the Eistview in line 92 in viewkequestsActivity.java	see iii ule app	
		migration.			
		- Refactor this -> Migrate to AndroidX			
		<ul> <li>Clicking that shows error that 'you need to have compile SDK set to atleast 28 in module build gradle</li> </ul>			
		to migrate to AndroidX		Implemented a login page for username and password	
		<ul> <li>Migration successful. Did not get rid of the Lsun/misc/unsafe loggings</li> </ul>	Another error. When logging in as user, and then logging in as student, the 'user' tuple written in the database gets overwritten with a 'student' tag	<ul> <li>added feature for keyboard to go away when clicking anywhere else</li> <li>added exception for when getFocus() is null, i.e. nothing is focused</li> </ul>	
		Change 'user' to 'customer' or 'consumer'	written in the database gets overwritten with a student tag	added exception for when get-ocds() is fluit, i.e. flottilling is locased	
		everywhere			
		- le_customer, le_student?			
File					
modified/created	Task notes	Main task goal	Steps for the task	Test cases pertinent to the task.	Errors encountered, severity.
		-			
					Errors for .xml files. Incomplete xml. Just close the project, delete the
					project. Empty the "caches" folder in "C:\Users\ <username>\.</username>
					AndroidStudio3.5\system"  And create the project again. It should build fully without any errors.
					The colors.xml file should have the <resources></resources> tag and not the
Main Activity Page		Create activity page for the main front page	default creation by Android Studio		<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>

File modified/created	Task notes	Main task goal	Steps for the task	Test cases pertinent to the task.	Errors encountered, severity.
Main Activity Page		Create activity page for the main front page	default creation by Android Studio		Errors for .xml files. Incomplete xml. Just close the project, delete the project. Empty the "caches" folder in "C.\Users) <username>\. AndroidStudo3. Siystem" And create the project again. It should build fully without any errors. The colors .xml file should have the <resources></resources> tag and not the <pre><pre><pre><pre></pre></pre></pre></pre></username>
Activities to Book					File name should only have lower case letters or numbers, or an
lain Activity Page		Add Logo	Get a vector, png		underscore. (a-Z), (0-9), '_'
			Add to 'drawable' folder in 'res' (resources folder in AS)		
			Add in the corresponding Activity layout		
			Modify layout constraints as needed		
Main Activity Page		Add a switch	Add a switch widget from list Remove text for switch Add unique id for switch		
			Add TextViews to left and right to show options		
			Equalize margins for TextView using XML text view instead of designer		
Main Activity Page		Add start button	Link button with its onClick():  - Add onclick function in corresponding Activity page - create a boolean for type of user - getCurrentUser putf) to add the type of user to Parse - getCurrentUser savelnBackground() with a new SaveCallBack call the redirect() function inside the callback.	test_1: start button name matches correct function in main activity test 2: log switch value to console to check binary switch status test_3: Check if correct userType is added to Parse data tuple based on switch status	
Main Activity Page	Check login For anonymous login we do not send any details. Login is similar to signup Still save details of user in app, such as rider or driver, last booking done	Login user	Must be done during creation, i.e. app start: Get current user to check if user is already logged in. 1. If logged in: + test_4 - redirect as rider or driver. First use only <b>Log</b> to print to console that you are redirecting 2. If not logged: + test_3 - use_login() in ParseAnonymousUtils to add a new LoginCallBack	test_3: check if user is not logged in for 'null' test_4: check if the value of the boolean that designates the type of user is not null	s .
				test_5: check test 1.4 Clicking the 'start' button will display log on console as 'redirecting as customer' or 'redirecting as student' based on the status of the switch	
			Will be a google maps activity     Setup google maps API     Go to URL > Select/Create Project > Create API Key > Paste it in google maps api.		
Rider Activity Page		Create activity for Rider	xml		

Main Activity Page		Create the redirect function	Will redirect to rider or driver activity page: rider  - Create a new Intent and use it to redirect to the Rider activity page  - Call the redirect() in the onClick() for "Add start button"  - Call the redirect() in "Login user" when user is already logged in.	test_6: check if the user type is "rider" or "driver" using '.equals("rider)' test_7: make sure to type 'startActivity(intent_name) after creating intent	
Rider Activity Page		Create an update map function	- get latitudes and longitudes for current user location and store it as a Latt.ng variable - clear existing markers - move the camera to current user location using CameraUpdateFactory - add marker on the map on users current location		
reder Activity 1 age		Create an apoate map function			
Rider Activity Page		Setup Google Maps to show user's location	Declare LocationManager and LocationListener		
			- Initialize locationManager & locationListener in the onMapReady() - locationManager will get LOCATION_SERVICE using getSystemService() - locationListener will be initialized to a new LocationListener() - In the onLocationChanged(): - call the updateMap() - use requestLocationUpdates on locationManager		
			Check for permissions: - test 8a: - if permission is not granted: - request for permissions using ActivityCompat.requestPermissions if permission is already granted: - request LocationUpdates using locationManager - get lastKnownLocation using locationManager - test_9	test_8a: check if permission is <b>NOT</b> granted using contextCompat. checkSelfPermission with PackageManager.PERMISSION_CRANTED test_8b: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager.PERMISSION_CRANTED test_9: check if lastKnownLocation is not null	
Rider Activity Page		Add method when user has given us permission	- autocreate onRequestPermissionResult - test, 10 - test, 11 - test, 21 - test, 21 - test, 20 - requestLocationUpdates using locationManager - get lastKnownLocation using locationManager - updateMay with lastKnownLocation	test_10: check if requestCode is 1 test_11: check if grantResults.length > 0 and that permission has been granted. test_12: check in the AndroidManifest.xml file if we ask for permission for ACCESS_FINE_LOCATION.	
				test_13: test 6-12 When a user is already logged in and clicks the start button, it will open a google maps image with the user's location in the center, with a marker depicting user location	
				test_14: test using a Log.i. If logged in, the app should automatically show map marker	
			Add button to RiderActivity page		
Rider Layout Page (.xml)		Add "Call Cab" button	- Give unique id and create onClick()		
Rider Activity Page	This is before checking if there is a request already active. Related to C64	Add callCab()	This will basically be the creation of a new ParseObject (i.e. request tuple) for the new request - test, 8b - request control to the property of the property	test_15: test the "call cab" button by using <b>Log</b> test_16: check if lastKnownLocation is not null test_18: check if "Request" object is created in Parse test_19: check if the created "sequest" object has a location field (as a ParseGeoPoint) and a username	
			- Declare the button in Rider Activity Page		
Rider Activity Page	This should be before above entry	Add "Call Cab" button (Activity)	- Initialize in onCreate()	test_17: check if the name of the button matches it's id in the .xml	
Didn Astick, Dave	This is in addition to the code in CCC		Declare Boolean in Rider Activity - check if active "Request" is in place in the onCreate() - Create a ParseQuery with exact name as the "Request" object created in Parse - Use the whereEqualTo() to check for the same "username" - Using the findinBackground() set the status of the active request Boolean and the tex of the "Call Cab" button - In the next findCallBack:	test_20: check if there are no errors test_21: check if there are more than 0 objects from the whereEqualTo	
Rider Activity Page	This is in addition to the code in C60	Create state variable for active request	set the text of the "Call Cab" button to "Cancel Booking"	query	
Rider Activity Page		CR4(Create state variable for active request) CC2	In the "Call Cab" button set the active request state variable to true before creating the request, check if an active request already exists: If it does not exist, C57 will be followed If it does exist, then upon clicking the button, the "Cancel Cab" will change back to the "Call Cab" follows same procedure as C62. query if a "Request" object exists on Parse with the current username. after performing test; 20 and test, 21: —loop through all the objects and delete objects in the background —set the State variable for active request to false —set the Test of the "Cancel Cab" button back to "Call Cab"	test_22: check if objects were deleted in Parse test_23: check if state variable was changed back to false test_24: check if the "Cancel Cab" button was changed back to "Call Cab"	Using findinBackground() from a fragment can cause an error and crash the arn. Use query find() to solve the problem.
Tudo: Motivity I ago		CONTINUES STATE VALIABLE FOR ACTIVE (EQUEST), CO2	COLUMN TORK OF THE CHINCH CHAP DUTION DRICK TO CHIN CHAP	25. S. S. S. S. III Call Cab button was changed back to Call Cab	and app. 555 quary.inia() to some the problem.

			test_25. test 13-24. When a use is already logged in, it should redirect accordingly. If a request doesnt exist, it should be created and stored in Parse, and the button in Customer Activity should reflect the change. If a request already exists, the user should be able to cancel it. The corresponding request object in Parse should then be deleted and the UI for the button in the Customer Activity should reflect the change.	
ViewRequestsActivity Page	Create activity to view nearby Drivers for booking	Empty Activity Create a list of requests that constitute nearby Drivers available. Show distance of each Driver from the customer in the list		
Rider Activity Page (.xml and .java)	Add a logout button	- Add a logout button - Add the logout() that logs the current user out and redirects to the Main Activity page - ParseUser Jogout() - Create Intent for Main Activity and redirect	test_26: check if logout button ondick matches in the activity .java page test_27: check if the user was actually logged out test_28: check if Intent redirects correctly to main activity	Two problems occur with the logout() button: - It logs out the currentliser, and since we are using ParseAutomaticUser, we cannot get that user back It redirects to MainActivity, but the main activity immediately redirects back to the Rider Activity since it checks for the redirection in its oncreate To solve the first issue, only implement the logout() once an actual login is put in place To solve the second issue, refer to C75(Add a home page button)
Rider Activity Page (.xml and .java)	Add a home page button	Add a "Home" button     Add the home) that takes user back to main activity page     Refer to F75 to implement temporary fix for immediate redirection		To solve the immediate redirection from Main Activity() remove checking if the current user already has a "riderOrDriver" field in the onCreate(). Instead move it to the startButton() method, so the redirection happens only when the button is clicked.
Main Activity Page	Add redirect functionality to View Requests Activity Page	Same block as C42     - Will redirect to rider or driver activity page: driver     - Create new Intent to redirect to View Activity page.	test_29: check if intent redirects to correct activity page test_30: check if intent was passed to startActivity();	
	A 11 B			
build.gradle (Module)	Add RecyclerView dependency	- implementation 'androidx.recyclerview:recyclerview:1.0.0'		
View Requests Activity Layout page (.xml)	Add a ConstraintLayout and RecyclerView	Add a RecyclerView inside a ConstraintLayout     Fix constraints     Give unique id, i.e. requestRecyclerView, viewRequestsLayout		
Requet List Layout file (.xml) [Singular layout file] [Named requests_list.xml]	Layout file for a single RecyclerView item, i.e. each row in the RecyclerView	- Add a LinearLayout and give unique id Add a TextView inside the LinearLayout and give it a unique id, e.g. requestTextView - Make sure the 'layout_height' parameter of the LinearLayout is set to 'wrap_content' and not match_parent - Keep the 'layout_height' parameter of TextView as 'wrap_content' as well		ERROR HERE
View Requests Activity page	Create a custom data class, 'RequestDataClass'	- Declare it before ViewRequestsActivity class will be a data class, and will have one String parameter, e.g.val <b>requestTitle</b> : String		
View Requests Activity	GPS related code will be similar to C50-51(Setup			
Page Page	Google Maps to show user's location)  [updateListView() will be defined ahead]	Declare LocationManager and LocationListener  - Initialize locationManager & locationListener in the onCreate() - locationManager will get LOCATION_SERVICE using getSystemService() - locationListener will be initialized to a new LocationListener() - In the onLocationChanged(): call the updateListView() (This function will be defined ahead) - use requestLocationUpdates on locationManager		
	[updateListView() will be defined ahead]	Check for permissions: - test_5as: - if permission is not granted: - request for permissions using ActivityCompat.requestPermissions - test_35b: - if permission is already granted: - requestLocationUpdates using locationManager - get lastKnownLocation using locationManager - test_37 - updatoListView() with the lastKnownLocation	test_35a: check if permission is <b>NOT</b> granted using contextCompat. checkSelfPermission with PackageManager.PERMISSION_GRANTED test_36b: check if permission iS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager.PERMISSION_GRANTED test_37: check if lastKnownLocation is not null	
	onRequestPermissions() similar to C53(Add method when user has given us permission) [updateListView() will be defined ahead]	- autocreate onRequestPermissionResult - test _38 - test _38 - test _35b test _35b requestLocationUpdates using locationManager get lastKnownLocation using locationManager updateListView with lastKnownLocation	test_38: check if requestCode is 1 test_39: check if grantResults.length > 0 and that permission has been granted. test_40: check in the AndroidManifest.xml file if we ask for permission for ACCESS_FINE_LOCATION	
RequestAdapter.kt	Create a RequestAdapter kotlin class This will also have the custom ViewHolder	- create a class RequestAdapter with one private parameter that will be a MutableList of the custom data class created earlier  - e.g. private val tiens. MutableList-RequestDataClass  - This RequestAdapter class will extend Recycler/iew Adapter <myviewholder -="" ahead<="" be="" class="" created="" custom="" is="" myviewholder="" name="" of="" td="" that="" the="" viewholder="" will=""><td></td><td></td></myviewholder>		

RequestAdapter.kt [2nd class in this file] [Can be refactored to own file if needed]	Create the custom ViewHolder class, <i>MyViewHolder</i>	- Create another class, MyViewHolder with two parameters, a Layoutinflater and a ViewGroup .  - Inflater. Layoutinflater, parent: ViewGroup .  - This class will extend RecyclerView. ViewHolder with one parameter that basically calls inflater inflate on the layout file created for RecyclerView item [requests_list.xml] .  - inflater. inflate on the layout file created for RecyclerView item [requests_list.xml] .  - create a private var of type TextView; var requestItemTextView. TextView .  - in the initialize function of the class (infl), assign the requestTextView from D83, i.e. the name of the TextView from the layout file for each row of RecyclerView to this class variable; requestItemTextView = ItemView requestTextView .  - requestTextView has to be accessed from the default variable 'itemView' in the RecyclerView class. We get access to this since we extend RecyclerView.		
ille il riccacaj	myviewnoidei	VICWI IOIUGI		
RequestAdapter.kt [2nd class in this file] [Can be refactored to own file if needed]	contd	- create a function 'bind()' that takes one parameter of type RequestDataClass, e.g. requestVar - assign the requestTitle, which was a variable from the data class to the text field of requestVar requestVar.requestTitle		
RequestAdapter.kt	Continue C87, the RequestAdapter class	Three functions need to be overriden.  - function onCreateViewHolder() that takes two parameters of type ViewGroup and Int and returns an object of the custom ViewHolder class (MyViewHolder)  - e.g. (parent: ViewHolder, viewType: Int)  - This is where we inflate the lagout conatining the RecyclerView  - use LayoutInflater to get context from the parent  -> e.g. val roofView = LayoutInflater from(parent context)  - then return MyViewHolder(roofView, parent)  - function gettlemCount() that takes nothing and returns an int  - return items size, where 'tems' is the name of the MutableList-RequestDataClass>		
RequestAdapter.kt	contd	- function onBindViewHolder() that takes two parameters of type MyViewHolder, and int e.g. (holder: MyViewHolder, position: int) - create a variable requestVar of type RequestDataClass that stores the element in 'item's at index position' - var requestVar: RequestDataClass = items[position] - bind that variable to the holder - holder bindrequestVar)		
View Requests Activity Page	Declare and initialize the <i>RequestDataClass</i> object Assign an adapter and layout to the RecyclerView in the xml	- Create a global MutableList-RequestDataClass> object, requestDataObject.  In the onCreate() - Assign a LinearLayoutManager with this as the context to requestSRecyclerView Assign an LinearLayoutManager with this as the context to requestSRecyclerView Assign an object of type RequestAdapter with requestDataObject as its parameter to requestSRecyclerView Assign an object of type RequestAdapter with requestDataObject with the xml - requestSRecyclerView.layout = LinearLayoutManager(this) - requestSRecyclerView.adapter = RequestAdapter(requestDataObject)		
View Requests Activity Page	This is replaced Create the updateRequestListView(Location)	Function to update the Recycler/lew with active requests  - test, 41.  - test, 41.  - Create a ParseCuery to check nearby requests arranged according to distance and update the ListView  - create a ParseCuery that .getQuery() on the "Request" ParseObject in Parse, e.g. nearby-getSchareCeoPoint() variable that gets it latitude and longitude from the passed-in "location" parameter to updateRequestListView(location)  - use a whereNear() on nearbyObjectsQuery between "location" and the created ParseCeoPoint variable. This shows requests Cosest to the current location  - add another constraint using .whereDeesNotExist() using "driverUsemame". This basically only lists requests that do not have a driver already assigned to them  - set nearbyObjectSQuery.limit = 5 to only show 5 requests closest to the ParseCeoPoint variable. These deared are lists only show 5 requests closest to the ParseCeoPoint variable created earlier	test_41: check if the passed location parameter is not null	
		contd.  - use findinBackground() on the ParseQuery (Modify for Kotlin) This is at the same level as earlier line. i.e. 3 dashes  - override the default function done() with a List <parseobject>, and ParseException? as parameters. i.e objects, and e.  - test, 42  - test, 43  - clear any earlier requests (i.e. the ArrayList<string>)  - for each object returned add it to the list  - store the "location" for the current object in the for loop as a ParseGeoPoint?  - test, 44  - get the distance for the current object in the desired quantity; e.g. miles, kilometers.  - store the distance as a double/float  - use requestDataObject add() to add an object of RequestDataClass with a String as its parameter. The String in this case would be the distance obtained earlier, maybe along with the username. This is basically the String that will be displayed in the TextView in the request_Istance.</string></parseobject>	test_42: check if there are no errors test_43: check if there are more than 0 objects for the returned using isNotEmpty() whereNear() ParseQuery test_44: check if the stored current object is not null	- Clear the RequestDataClass object (requestsDataObject) after checking if there are any objects. Clearing it before causes the list shown in the UI to duplicate temporarily (for fraction of a second). Just a bug.  - The UI probably adds the new updated list before the old requests list is cleared.  - The first item in RecyclerView does not appear.
	,	test_45 using requestDataObject.add(), add an object of type RequestDataClass with inpu notifyDataSetChanged() on the arrayAdapter to update the it	t t test_45: there are no objects to list	
			test_'Choosing driver option in the home page switch should redirect to ViewRequestsActivity page. This page will show the list of requests arranged by nearby requests.	Error. The first request element in the list will be slightly obscured by top of the page.
app Module build.gradle	Add dependencies for CoordinatorLayout and AppBarLayout	- add dependency androidx.coordinatorlayout:coordinatorlayout:1.1.0 - add dependency com.google.android.material:1.1.0 for AppBarLayout		ConstraintLayout w RecyclerView causes first element to be partially obscured. Using a coordinatorlayout solves that problem

			Change the ConstraintLayout to a CoordinatorLayout in the xml.		
			- The RecyclerView will be a child of this CoordinatorLayout		
View Requests Activity		Add the coordinatorlayout and appbarlayout to the			
layout page (.xml)		xml			
			In the onCreate() after initializing the requests ListView: clear() the requestDataObject.		
View Requests Activity		Add an in progress status while getting the list of	add a RequestDataClass with String "Getting Drivers nearby" to the		
Page		requests	requestDataObject		
			Make sure the Amazon AWS EC2 Instance (or the cloud service being used) is		
			running: - Check if the server address of the instance matches the one in the Android Project.		
Parse Dashboard at the		Add additional "Requests" with latitude and longitude	Log onto the parse dashboard: - Go to the "Request" objects		
server address		manually	- Add addtional requests with latitude and longitudes		
				test_46: test_26-45	
				When logged in as a Driver, on we should be able to see the list of active requests with distances.	
				Toqueste min distances.	
			- Will be a google maps activity		
			The following will be already setup from creating the Customer Activity (C39)		
			- Setup google maps API Go to URL > Select/Create Project > Create API Key > Paste it in google_maps_api.		
			xml		
			Will be redirected here from the View Peau and Additional and the second and the		
			- Will be redirected here from the ViewRequests Activity page, when one of the items in the requests list is clicked		
Driver Location Activity			For that we will pass the Customer's location and the Driver's location to the		
Page		Create activity for Driver	DriverLocation Activity Page		
FILL VIEWHOLDER					
ONCLICK DETAILS					
HERE	ViewHolder click working implementation files	FILL VIEWHOLDER ONCLICK DETAILS HERE	ONCLICK using ViewHolder	FILL VIEWHOLDER ONCLICK DETAILS HERE	
			Databinding		
FILL DATABINDING DETAILS HERE	FILL DATABINDING DETAILS HERE	FILL DATABINDING DETAILS HERE	layout page changes (.xml) onCreate() changes (.kt)	FILL DATABINDING DETAILS HERE	
DE ITALEO FILITE	THE BATTABING BETALEOTIERE	TIEE BY WILDING BETTIES TIENE	onercate() analoges (.iii)	The British British Betrike Here	
FILL ONCLICK DETAILS					
HERE	FILL ONCLICK DETAILS HERE	FILL ONCLICK DETAILS HERE	OnCLICK using Binding Adapter, can be called from activity	FILL ONCLICK DETAILS HERE	
			In the class:		
			- Declare two ArrayList <double> for storing the request Latitudes and request Longitudes</double>		
			- In C89/D89 after adding the storing the distance as a double:		
			add the latitude from the current request object to the just created requestLatitude ArrayList <double></double>		
View Requests Activity			ArrayList <double></double>		
Page		Create ArrayList <double> to store and then pass the</double>	do the same for longitude.	test 47: Make sure the usage of Double or Float is consistent throughout	
	CHANGE THIS	Create ArrayList <double> to store and then pass the latitude and longitude of the request</double>	do the same for longitude.	test_47: Make sure the usage of Double or Float is consistent throughout the program.	
	CHANGE THIS	Create ArrayList <double> to store and then pass the latitude and longitude of the request</double>	do the same for longitude.	test_47: Make sure the usage of Double or Float is consistent throughout the program.	
	CHANGE THIS	Create ArrayList <double> to store and then pass the latitude and longitude of the request</double>	In the onCreate():	test_47: Make sure the usage of Double or Float is consistent throughout the program.	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request		test_47: Make sure the usage of Double or Float is consistent throughout the program.	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate(): - create a setOnItemClickListener on the requests ListView with a AdapterView. onItemClickListener as a parameter - Let if autocomplete and create a onItemClick(, int i,); where i is the number of the	the program.	
	CHANGE THIS	Create ArrayList <double> to store and then pass the latitude and longitude of the request</double>	In the onCreate(): - create a selOnltemClickListener on the requests ListView with a AdapterView. ontlemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0.	the program.	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate():  - create a selOnltemClickListener on the requests ListView with a AdapterView.  ontlemClickListener as a parameter  - Let it autocomplete and create a ontemClick(, int i,); where I is the number of the row that was clicked. So if the first row was pressed, then I would be a 0.  in the ontemClick(, int i,):  - test, 48	the program.	
	CHANGE THIS	Create ArrayList Flouble> to store and then pass the latitude and longitude of the request	In the onCrasts().  - create a setOnitemClickListener on the requests ListView with a AdapterView. onliemClickListener as a parameter  - Let it autocomplete and create a ontiemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0.  - in the ontiemClick(, int i,);  - test 4.8  - get lastKnownLocation of the current Student using locationManager	the program.	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate(): - create a selOnltemClickListener on the requests ListView with a AdapterView. ontemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the ontemClick(, int i,): - test, 48 - get lastKnownLocation of the current Student using locationManager - test, 49.8 kers 50.8 ke st. 51.	the program.	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate(): - create a selOnltemClickListener on the requests ListView with a AdapterView. ontemClickListener as a parameter - Let it autocomplete and create a onltemClick(, int i,); where I is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onthemClick(, int i,): - test, 48 get lastKnownLocation of the current Student using locationManager - test, 49 & Set, 50 & Set 51 create a new Intent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent.putEXtra()	test_48: check if permission IS granted for this Activity for ACCESS FINE LOCATION using contextCompatcheckSelfPermission	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate():  - create a setOntemClickListener on the requests ListView with a AdapterView.  - ontemClickListener as a parameter  - Let it autocomplete and or create a ontemClick(, int i,); where i is the number of the row in the contemClick(, int i,):  - in the ontemClick(, int i,):  - test. 49.  - get lastKnown(Location of the current Student using locationManager  - test. 49. 8& test. 50. 8& test. 51  - create a new Intent that reflects to the StudentLocation Activity Page  - and the following to the created intent using intent.putExtra()  - the request Latifude, request Longitude, student Latifude, student Longitude	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_GRANTED	
	CHANGE THIS	Create ArrayList-Double> to store and then pass the latitude and longitude of the request	In the onCreate():  - create a setOntiemClickListener on the requests ListView with a AdapterView.  - create a setOntiemClickListener as a parameter  - Let it autocomplete and create a ontermClick(, int i,); where i is the number of the row in the contemclick and it is the number of the row in the contemclick(, int i,);  - test. 49.  - get lastKnownLocation of the current Student using locationManager  - test. 49. 8. test. 50. 8. test. 51  - create a new Intent that redirects to the StudentLocation Activity Page  - add the following to the created intent using intent.putExtra()  - the request Latitude, request Longitude, student Latitude, student Longitude  - to add the request Latitude and Longitude, use. get(i) on the created request Latitude ArayListCoubles - where i refers to the row of the item (ie., the request) that	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompatcheckSelfPermission with PackageManager_PERMISSION_GRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 0 for the first row being clicked, so the size of	
	CHANGE THIS	latitude and longitude of the request	In the onCreate(): - create a selOnltemClickListener on the requests ListView with a AdapterView ontemClickListener as a parameter - Let it autocomplete and create a onltemClick(, int i,); where I is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onltemClick(, int i,): - test, 48 get lastKnownLocation of the current Student using locationManager - test, 49 && test, 50 && test, 51 create a new Intent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent.putExtra() the request Laittude, request Longitude, student Laittude, student Longitude to add the request Laittude and Longitude, use, get(ii) on the created request Laittude Array,List-Double>, where i refers to the row of the item (i.e. the request) that	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_GRANTED test_49: check if the size() of the requests Lattude is greater than i. Lowest value for is 0 for the first row being clicked, so the size of requests must he atleast 1.	
View Requests Activity		Create ArrayList-Double> to store and then pass the latitude and longitude of the request  Pass the Student and Customer Location through Intent	In the onCreate():  - create a setOntiemClickListener on the requests ListView with a AdapterView.  - create a setOntiemClickListener as a parameter  - Let it autocomplete and create a ontermClick(, int i,); where i is the number of the row in the contemclick and it is the number of the row in the contemclick(, int i,);  - test. 49.  - get lastKnownLocation of the current Student using locationManager  - test. 49. 8. test. 50. 8. test. 51  - create a new Intent that redirects to the StudentLocation Activity Page  - add the following to the created intent using intent.putExtra()  - the request Latitude, request Longitude, student Latitude, student Longitude  - to add the request Latitude and Longitude, use. get(i) on the created request Latitude ArayListCoubles - where i refers to the row of the item (ie., the request) that	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 80 for the first row being clicked, so the size of requests must be atleast 1. test 50: same as test 48 but for the request Longitude	
View Requests Activity Page	CHANGE THIS  CHANGE THIS	latitude and longitude of the request	In the onCreate(): - create a setOntemClickListener on the requests ListView with a AdapterView ontemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 the table the mClick(, int i,); - get lastKnownth coation of the current Student using locationManager - get lastKnownth coation of the current Student using locationManager - test, 40 & 8 test, 50 & 8 test, 51 - create a new Irlent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent.putExtra()	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_GRANTED test_49: check if the size() of the requests Lattude is greater than i. Lowest value for is 0 for the first row being clicked, so the size of requests must he atleast 1.	
View Requests Activity Page		latitude and longitude of the request	In the onCreate(): - create a setOntemClickListener on the requests ListView with a AdapterView ontemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 the table the mClick(, int i,); - get lastKnownth coation of the current Student using locationManager - get lastKnownth coation of the current Student using locationManager - test, 40 & 8 test, 50 & 8 test, 51 - create a new Irlent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent.putExtra()	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 80 for the first row being clicked, so the size of requests must be atleast 1. test 50: same as test 48 but for the request Longitude	
View Requests Activity Page		latitude and longitude of the request	In the onCreate(): - create a setOntemClickListener on the requests ListView with a AdapterView ontemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 the table the mClick(, int i,); - get lastKnownth coation of the current Student using locationManager - get lastKnownth coation of the current Student using locationManager - test, 40 & 8 test, 50 & 8 test, 51 - create a new Irlent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent.putExtra()	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 80 for the first row being clicked, so the size of requests must be atleast 1. test 50: same as test 48 but for the request Longitude	
Page		latitude and longitude of the request	In the onCreate(): - create a setOntiemClickListener on the requests ListView with a AdapterView create a setOntiemClickListener as a parameter - contemClickListener as a contemClickL	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 80 for the first row being clicked, so the size of requests must be atleast 1. test 50: same as test 48 but for the request Longitude	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCreate(): - create a selCnitemClickListener on the requests ListView with a AdapterView. ontemClickListener as a parameter - Let it autocomplete and create a onItemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onItemClick(, int i,): - test, 48 - get lastKnownLocation of the current Student using locationManager - test, 49 && test_50 && test_51 - create a new Intent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent putExtra() - the request Laittude, request Longitude, student Laittude, student Longitude - to add the request Laittude and Longitude, use gett() on the created request Laittude Array,List-Double> where i refers to the row of the Item (i.e. the request) that was clicked to add the student laittude and longitude, do getLaittude() and getLongitude() on the lastKnownLocation	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size[o i for the first row being clicked, so the size of requests must be afleast 1. Loset_50: same as test_49 but for the request Longitude test_51: check if lastKnownLocation is not null	
Page FILL ONCLICK DETAILS		latitude and longitude of the request	In the onCreate(): - create a setOntiemClickListener on the requests ListView with a AdapterView create a setOntiemClickListener as a parameter - contemClickListener as a contemClickL	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size() of the requests Latitude is greater than i. Lowest value for is 80 for the first row being clicked, so the size of requests must be atleast 1. test 50: same as test 48 but for the request Longitude	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCreate(): - create a selCnitemClickListener on the requests ListView with a AdapterView. ontemClickListener as a parameter - Let it autocomplete and create a onItemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onItemClick(, int i,): - test, 48 - get lastKnownLocation of the current Student using locationManager - test, 49 && test_50 && test_51 - create a new Intent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent putExtra() - the request Laittude, request Longitude, student Laittude, student Longitude - to add the request Laittude and Longitude, use gett() on the created request Laittude Array,List-Double> where i refers to the row of the Item (i.e. the request) that was clicked to add the student laittude and longitude, do getLaittude() and getLongitude() on the lastKnownLocation	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size[o i for the first row being clicked, so the size of requests must be afleast 1. Loset_50: same as test_49 but for the request Longitude test_51: check if lastKnownLocation is not null	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCreate(): - create a selCnitemClickListener on the requests ListView with a AdapterView. ontemClickListener as a parameter - Let it autocomplete and create a onItemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onItemClick(, int i,): - test, 48 - get lastKnownLocation of the current Student using locationManager - test, 49 && test_50 && test_51 - create a new Intent that redirects to the StudentLocation Activity Page - add the following to the created intent using intent putExtra() - the request Laittude, request Longitude, student Laittude, student Longitude - to add the request Laittude and Longitude, use gett() on the created request Laittude Array,List-Double> where i refers to the row of the Item (i.e. the request) that was clicked to add the student laittude and longitude, do getLaittude() and getLongitude() on the lastKnownLocation	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size[o i for the first row being clicked, so the size of requests must be afleast 1. Loset_50: same as test_49 but for the request Longitude test_51: check if lastKnownLocation is not null	
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Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCreate(): - create a setOnttemClickListener on the requests ListView with a AdapterView ontemClickListener as a parameter - Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the ontemClick(, int i,); test_4 gs_4	test_48: check if permission IS granted for this Activity for ACCESS_FINE_LOCATION using contextCompat.checkSelfPermission with PackageManager_PERMISSION_CRANTED test_49: check if the size[o i for the first row being clicked, so the size of requests must be afleast 1. Loset_50: same as test_49 but for the request Longitude test_51: check if lastKnownLocation is not null	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCraste():  create a setOntiemClickListener on the requests ListView with a AdapterView.  create a setOntiemClickListener as a parameter  Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0.  in the onitemCick(, int i,);  test, 48  — get lastKnownLocation of the current Student using locationManager  — test, 49 && test, 50 && test, 51  — create a new linent that redirects to the StudentLocation Activity Page  — add the following to the created intent using intent.putExtra()  — the request Latitude, request Longitude, sudent Latitude, student Longitude  — to add the request Latitude and Longitude, use. get(i) on the created request Latitude ArrayListChoubles - where i refers to the row of the item (ie. the request) that was clicked.  — to add the student latitude and longitude, do getLatitude() and getLongitude() on the lastKnownLocation  ONCLICK BINDING  ALSO VIEWHOLDER ONCLICK  - Declare an intent globally for the class  In the onMapReady():  - initialize the recreated intent for the Class with getIntent()	test_48: check if permission IS granted for this Activity for ACOESS_FINE_LOCATION using contextCompatcheckSelfPermission with PackageManager_PERMISSION_CRANTOLED test_49: check if the .size() of the requests Latitude is greater than it. Lowest value for it is 0 for the first row being clicked, so the size of requests must be atteast 1. test_50: same as test_48 but for the request Longitude test_51: check if lastKnownLocation is not null	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCreate(): - create a setOnttemClickListener on the requests ListView with a AdapterView create a setOnttemClickListener as a parameter - Let it autocomplete and create a onttemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0 in the onttemClick(, int i,); test_4.0 % test_5.0 % & test_5.1 test_4.0 % test_5.0 % test_5.1 test_4.0 % test_5.0 % test_5.1 test_6.0 % test_6.	test_48: check if permission IS granted for this Activity for ACOESS_FINE_LOCATION using contextCompatcheckSelfPermission with PackageManager_PERMISSION_CRANTOLED test_49: check if the .size() of the requests Latitude is greater than it. Lowest value for it is 0 for the first row being clicked, so the size of requests must be atteast 1. test_50: same as test_48 but for the request Longitude test_51: check if lastKnownLocation is not null	
Page FILL ONCLICK DETAILS	CHANGE THIS	latitude and longitude of the request  Pass the Student and Customer Location through intent	In the onCraste():  create a setOntiemClickListener on the requests ListView with a AdapterView.  create a setOntiemClickListener as a parameter  Let it autocomplete and create a ontemClick(, int i,); where i is the number of the row that was clicked. So if the first row was pressed, then i would be a 0.  in the onitemCick(, int i,);  test, 48  — get lastKnownLocation of the current Student using locationManager  — test, 49 && test, 50 && test, 51  — create a new linent that redirects to the StudentLocation Activity Page  — add the following to the created intent using intent.putExtra()  — the request Latitude, request Longitude, sudent Latitude, student Longitude  — to add the request Latitude and Longitude, use. get(i) on the created request Latitude ArrayListChoubles - where i refers to the row of the item (ie. the request) that was clicked.  — to add the student latitude and longitude, do getLatitude() and getLongitude() on the lastKnownLocation  ONCLICK BINDING  ALSO VIEWHOLDER ONCLICK  - Declare an intent globally for the class  In the onMapReady():  - initialize the recreated intent for the Class with getIntent()	test_48: check if permission IS granted for this Activity for ACOESS_FINE_LOCATION using contextCompatcheckSelfPermission with PackageManager_PERMISSION_CRANTOLED test_49: check if the .size() of the requests Latitude is greater than it. Lowest value for it is 0 for the first row being clicked, so the size of requests must be atteast 1. test_50: same as test_48 but for the request Longitude test_51: check if lastKnownLocation is not null	

			test_53: test_47-test_52 Clicking on a reugest from the requests ListView should open the Student Location Activity Page and show a <b>singular</b> marker of the Student (as done in <b>C103</b> )	
Student Location Activity Page	Create and display markers for Customer and Student	In the onMapReady():  - Remove the Latting variables created for Student Lattitude and Longitude in C103  - Create a Latting for customert.coation using intent.get(DoubleExtra(" <name in="" lattitude(longitude="" of="" viewrequestsage="">")  - Create a Latting for studentLocation using intent.get(DoubleExtra("<name in="" lattitude(longitude="" of="" viewrequestsage="">")  - Create a Latting for studentLocation using intent.get(DoubleExtra("<name in="" lattitude(longitude="" of="" viewrequestsage="">")  - Create a marker Array.ist<marker> - Add the marker for the customent-Location in the created ArrayList<marker> - Add the marker for the studentLocation in the created ArrayList<marker> - Create a LattingBounds Builder object Loop through all Markers: - Include the position of each marker in the LattingBounds.Builder object: builder. include(marker.getPosition(I)):</marker></marker></marker></name></name></name>	test_54: check if name of the customer Latitude is same as the one in passed from the View Requests Page test_55: check if name of the customer Longitude is same as the one in passed from the View Requests Page test_56: check tif the marker ArrayList-Marker- has been initialized test_57: check if the LatIngDounds Builder has been initialized	
		- Create a LatLngBounds and initialize it using the earlier LatLngBounds.Builder object:		
	contd.	builder.build():  - Get the width of current display using getDisplayMetrics() and store it as an int - Get the height of current display using getDisplayMetrics() and store it as an int - Create an int, 'padding', and intalize it as 20% of the height after casting it as an int - Create a CameraUpdate object, ou, using CameraUpdateFactory using the newLatLngBounds(bounds, width, height, padding) - Call animateCamera(ou) on the GoogleMap object		
Student Location Layout Page (.xml)	Create UI for a 'Confirm Booking' button	- Add a 'Confirm Booking' button - Add the constraints for it and give it a onClick() name		It is possible the MapFragment in the layout will not be under any parent Layout (such as Relative Layout, or Constraint Layout ode from another xml and paste it in the text view of the required xml -MAKE SURE to change the 'bods:context' field in the xml to the new Layout name and not the old one
		- Declare and initialize an ArrayList <string> for usernames.</string>		
View Requests Activity Page	Also pass in "username" using putExtra() like in C99	- Similar to C99:  - add the "username" field from the current 'object' in the nearbyObjectsQuery to the created ArrayList <string> for usernames.  - Similar to C101:  - use intent.putExtra() to add the "i"th value from the created usernames.</string>	test_58: check if usernames.size() is is greater than i: where the "i( + 1)"th row is clicked by the user. Add this test to test_49-50-51	
Student Location Activity Page	Create functionality for ConfirmBooking. We must make sure Parse knows the Request has	In the confirmBooking() - Create a ParseCuery on the "Request" object in Parse - Set a whereEqualTo constraint on "username" and compare it with the intent. getStringExtra("username") - use findInBackground on the query using a FindCallBack <parseobject> - test_50 -</parseobject>	test_59: if there are no errors, i.e e == null test_60: if the size() of objects is greater than zero test_61: if there are no errors, i.e. e == null	Error will occur saying the map has not been laid out yet, and we are trying to access it before then. So we do C116 using the OnGlobal Layoutl. stener()
Student Location Activity Page		In the on/hapReady():  - We will be moving entire C107 & C108 into a new function.  - give a unique id to the parent Layout of Student Location Activity Layout page (The xmf file)  - create an object, 'mapLayout,' of type corresponding to the parent layout of the Student Location Activity Page (for e.g. Constraint.ayout)  - e.g. Constraint.ayout mapLayout = (ConstraintLayout)find/viewbyld(R.id. unique)IDOStdoentLocation.layout  - Add a 'addonGlobalLayoutListener with a CallBack for the same	test, 62: check to make sure the intent is initialized before the mapLayout creation (and by extension before the onGlobalLayoutListener()	
	Change marker col f th- Ctdt '			
Student Location Activity	Change marker colours for the Student and Customer marker	Use BitmapDescriptorFactory to choose a colour (Hue)		
View Requests Activity Page	Remove the accepted request from the list of requests displayed from View Requests Activity	In updateListView()  - After the whereNearBy query in C88  - Add a whereDoesNotExist(" <name c114="studentUsername" from="">") after it. This will filter out to only display Request objects that do not have a Student already assigned to them, in the requests ListView</name>	test_63: check that the string name in the whereDoesNotExist() matches the string id for the Student Username assigned in C114	
			test_64: test_54-63	
			test_64: test_94-63  Clicking on a request should open up a google maps activity showing the two markers (Student and Customer) on the screen. Clicking 'Confirm' Booking' will ask if we want to open the Google Maps app (or any similar app, if it exists). The directions between the Student and Customer will be shown in the just opened Google Maps app.	

Google Maps Activity suddenly shows blank screen.	No errors anywhere	Added the following to AndroidManifest.xml: <pre><meta-data android="" android.name="com google.android.gms.version" value=" @integer/google_play_services_version"></meta-data> - This causes a E/Google Maps android API: Authorization Failure</pre>	It is an authorization/authentication failure for the API key.	
build.gradle file(Module)			add this to dependencies - compile comparse;parse-android:1.15.7' - compile is deprecated. Use implementation and update this file to the new way it is done - sync gradle	
ParseSetup.kt		Setup Parse	- Created Amazon AWS instance - Get serverID, clientKey, appKey - Create a new Kotlin class (in this case ParseSetup) - import android app. Application and com.parse. Parse - create the class and its default onCreate - Add Parse. initialize(Parse Configuration Builder(this) - using the dot operator "add applicationID, clientKey, server, and build() - create a sample parse object and then test to see if it reflects in the Parse Backend Dashboard	Error Parse.ParseRequest failed.
AndroidManifest.xml		Add ParseSetup.kt	Add .ParseSetup to its <application> tag in the Android Manifest Also add AppTheme to the already existing MainActivity class inside its <activity> tag</activity></application>	- Error about AppTheme. After adding ParseSetup to <application> we also have to add the right "AppTheme" to the MainActivity inside its <activity> taq</activity></application>