Please make the necessary changes to the "addToProject" branch of the project. [addToProject>test1>test1>test1>AppBackEndCode]

Comments:

**All:**  Please make the comments format similar to that of Denny’s

**Luke:**

         Are the x,y,z coordinates the GPS coordinates? Please use GPS coordinate system type.

         Is ‘int’ the right data type for co-ordinates? It may be in degrees, minutes etc. Xamarin may have a special data type for this. Can you please look into this?

         updateCoordinates should have a different return type. Please coordinate with Denny to check if this function is required or not.

         setCoordinates should also take int[] as input -  this will depend on the coordinate data type

**Brianna:**

         Is UserSpace a default in xamarin, or was it the name of the project that you had created? I’m just asking because it’s not being highlighted as an error after I changed the project name.

         Password might have a different data type. Can you please look into this?

         getInfo : what is the third parameter returned by this function? (The user settings are a string array and not a string)

         The get functions should return this->get.

         updateUsernameAndPassword should be split into 2.

         Void updateUser – should probably return a bool. Should probably be split into two different functions, one that will be called for login/logout, one that will be called for creating/instantiating a user.

         Please coordinate with the API team to confirm that the authentication parameters used by them match yours

**Denny:**

         Updates should have separate send and receive functions.

         We need another function that lets app receive events from server.

         updateListOfRooms should probably return a bool. Should have another function that lets app send updates to server

         updateLocation: should use co-ordinates, not room id. Please coordinate with Luke on this.

         updateDevicesOn: should probably be updateDevicesSettings. There should be another function that lets app push settings to the server

         updateCurrentRoom: should not take an argument. It should send co-ordinate location to the server, and receive the room id in return

         We need another function to update current house from the server, and add another house to the server database. This should be similar to updatecurrentroom

         We need another function to receive and then cache authentication token from the server API (if used)

         Please coordinate with Souwarna on the datatypes to be used for adding house, device and room.

**Cole:**

         hashAndCacheCredentials: Please coordinate with Brianna to check the correct data type for password.

         Please add a function to pass the cached user name and password to the app.

         cacheUserPreference: elementProperty should be a string array

          getCachedUserPreference: should return string array

         cacheDeviceProperty, getCachedDeviceProperty: use string array

         please add functions to cache house and rooms as well.

         Please look into how the hierarchy can be maintained when caching device/room/house information. This does not need to be done for phase 1.

         please add another function to cache an authentication token received from server API, and another function to check the validity of the token and return true/false

         the assignment mentions that API will mark certain information as cacheable. Please co-ordinate with the API and hardware teams to check what they plan on making cacheable.

**Souwarna:**

         Please rename the class Program.

         Please remove the internal logic used in the functions. It is not required for this phase. Remove the changes from this branch only, so that they can be later retrieved from your current commit.

         The class should have data members that will be used to cache the information on the device.

o   Please ensure that the house object has a field to associate it to a user.

o   Room object should have a field to associate it with a house and user.

o   Device object should have a field to associate it with a house and user and room.

o   The classes should have the other required fields as well.

o   All the fields should be string or string array.

         Please add functions to add a house.

         Please add functions to delete rooms/devices/houses as well.

         addDevice: don’t specify the logic now.

         Please add functions for checking the correctness of the hierarchy when adding or deleting. You don’t need to add the logic for this phase.