Charakteristik and Services Tables

Mittwoch, 22. März 2023

12:32

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| **Actions** | **Admin**  **/User**  **Code** | **Receiving/Sending JSON Code to ESP** | **JAVA Method**  **BleutoothLeService.** | **Description** | **Test** |
| Initial User | User | {"cmd": "init\_user", "name": "test-user"} | initUser(String name) | register as a new user and receive a user ID | ok |
| Make Recipe | User | {"cmd": "make\_recipe", "user": 8858, "recipe": "radler"} | makeRecipe(float user, String recipe) | mixes the recipe | ok |
| Reset | User | {"cmd": "reset", "user": 9650} | reset(float user) | Reset the machine so that it can make a new cocktail |  |
| Abort | User | {"cmd": "abort", "user": 483} | Abort(float user) | Cancels the current recipe |  |
| Define Pump | Admin | {"cmd": "define\_pump", "user": 0, "volume": 1000, "slot": 1} | adminDefinePump(float volume, int slot) | add pump |  |
| Add liquid | User/Admin | {"cmd": "add\_liquid", "user": \*/0, "liquid": "water", "volume": 30} | addLiquid(float user, String liquid, float volume) | Adds liquid to the cocktail | ok |
| Run Pump | Admin | {"cmd": "run\_pump", "user": 0, "slot": 1, "time": 1000} | adminRunPump(int slot, int time) | Runs the pump for a certain time |  |
| Define Recipe | User/Admin | {"cmd": "define\_recipe", "user": \*/0, "name": "radler", "liquids": [["beer", 250], ["lemonade", 250]]} | defineRecipe(float user, String name, ArrayList<Pair<String, Float>> liquids) | defines a new recipe or changes an existing recipe | ok |
| Edit Recipe | User/Admin | {"cmd": "edit\_recipe", "user": \*/0, "name": "radler", "liquids": [["beer", 250], ["lemonade", 250]]} | editRecipe(float user,String name, ArrayList<Pair<String, Float>> liquids) | edit an existing recipe | ok |
| Calibrate Pump | Admin | {"cmd": "calibrate\_pump", "user": 0, "slot": 1, "time1": 10000, "time2": 20000, "volume1": 15.0, "volume2": 20.0} | adminCalibratePump(int slot,int time1, int time2, float volume1, float volume2) | For calibration, two measured values must be available for which the pump has been running for a different time. This is then used to calculate the flow rate and the pump rate. The times are given in milliseconds and the liquids in millilitres. |  |
| restart | Admin | {"cmd": "restart", "user": 0}  {"cmd": "restart", "user": 0, "factory\_reset": true} | adminRestart(Boolean restFactory) | restarts the machine. If factory\_reset is set to true, all settings will also be deleted. |  |
| clean | Admin | {"cmd": "clean", "user": 0} | adminClean() | Clean the machine | ok |
| Status Liquids | Admin | {"beer": 200, "lemonade": 2000, "orange juice": 2000} | adminReadLiquidsStatus() | Map of all available liquids and their volumes | ok |
| Status  Last Change | Admin | 275492 | adminReadLastChange() | Last Change Characteristic: If the timestamp has not changed, the available recipes and ingredients are still the same.The timestamp is an internal value of the ESP and has no relation to the real time. |  |
| Status  Current User | Admin | If any User is **Acitve** Value is:5  If **no user is active**, the value is: -1 | adminReadCurrentUser() | the current user for whom a cocktail is being made |  |
| Staus Pumps | Admin | {"1": {"liquid": "lemonade", "volume": 200}} | adminReadPumpsStatus() | Map of all available pumps and their level |  |
| Status State | Admin | **init**: Machine is being initialised  **ready**: Machine is ready to execute a command and is waiting  **mixing**: Machine makes a cocktail  **pumping**: Machine is pumping liquids  **cocktail** **done**: Cocktail is prepared and can be taken out. After that reset should be executed | adminReadState() | Read current State | ok |
| Status Cocktail | Admin | [["a",10.0],["b",10.0]] | adminReadCurrentCocktail() | The content of the current cocktail being mixed. | ok |
| Status Recipes | Admin | {"abc":[["c",5.0],["b",5.0],["a",5.0]],"ab":[["b",5.0],["a",5.0]]} | adminReadRecipesStatus() | Read saved Recipes from Device | ok |