

Bluetooth : Arduino ⇔ Android

Format : <numéro,valeur>

Arduino ⇒ Android

| numéro | fonction | data  | unité | code     |
|--------|----------|-------|-------|----------|
| 1      | battery  | 0-100 | %     | <1,data> |
| 2      | speed    | 0-40  | km/h  | <2,data> |
| 3      | assist   | 0-6   |       | <3,data> |
| 4      | error    | 0-6   |       | <4,data> |

Android ⇒ Arduino

|   | fonction     | data      | donné    |
|---|--------------|-----------|----------|
| 0 | stopAssist   | -         | <0>      |
| 1 | getAssist    | -         | <1>      |
| 2 | upAssist     | -         | <2>      |
| 3 | downAssist   | -         | <3>      |
| 4 | setAssist    | 0-6       | <4,data> |
| 5 | assistPieton | -         | <5>      |
| 6 | pot          | 104 - 154 | <6,data> |

Erreurs controller

|    |   |
|----|---|
| 01 | Throttle Signal Abnormality;                                  |
| 03 | Motor Hall Signal Abnormality;                                |
| 04 | Torque Sensor Signal Abnormality;                             |
| 05 | Speed Sensor Signal Abnormality (Suitable for torque system); |
| 06 | Motor or Controller Short Circuit Abnormality;                |

## REST

Android <==> Serveur

URL = [http://lebonnuage.istic.univ-rennes1.fr/projet\\_velo\\_web/CodeIgniter/index.php/android/](http://lebonnuage.istic.univ-rennes1.fr/projet_velo_web/CodeIgniter/index.php/android/) **Methode**

| Description   | Méthode          | http<br>Méthode | Paramètre   |
|---|------------------|-----------------|---|
| Crée un compte utilisateur  | creerUser        | -post           | login:String<br>password :String<br>nom :String,<br>prenom:String,<br>age :String<br>mail:String                      |
| Authentifie un utilisateur  | authentification | -Post           | login :String<br>mp: String   |
| Ajout un nouveau déplacement: lieux départ/arrivée vitesse moyenne, distance parcourue  | ajoutDeplacement | -Post           | login:String<br>mp :String<br>depart:String<br>arrivee :String<br>vitesse :String,<br>distance:String,<br>mail:String |
| Récupérer les données d'un utilisateur en format Json. exemple :<br><b><code>{"Id_User":"1","Login":"ali","Nom":"Mohamed Affizou","Prenom":"Ali","Age":"23","dateInscription":"0000-00-00 00:00:00","adresse":"39 AVENUE DU PROFESSEUR CHARLES FOULON RES UNIV BEAULIEU","mail":"ali mohamedaffizou@mail.com"}</code></b> | infosUser        | Post            | login :String<br>mp: String   |
| Récupérer les records de vitesse d'un utilisateur en format Json<br><b><code>{"idHistorique":"6","id User":"1","pointDepart":"ESIR","pointArrivee":"INSA","vitesseMoy":"29.33","distancePar":"2.9","date":"2016-05-01 00:00:00"},{"idHistoriq</code></b>  | recordVitesse    | Post            | login :String<br>mp : String  |

|   |                |      |                              |
|---|----------------|------|------------------------------|
| <pre> ue":"8","idUser":"1","p ointDepart":"ESIR2","p ointArrivee":"INSA2"," vitesseMoy":"25.33","d istancePar":"2.96","dat e":"2016-05-01 10:00:00"},{"idHistoriq ue":"7","idUser":"1","p ointDepart":"ISTIC","p ointArrivee":"BU","vite sseMoy":"23.69","dista ncePar":"2","date":"20 16-05-02 00:00:00"},{"idHistoriq ue":"9","idUser":"1","p ointDepart":"ISTIC","p ointArrivee":"RU","vite sseMoy":"23.69","dista ncePar":"4","date":"20 16-05-02 12:10:01"} </pre> |                |      |                              |
| Récupérer les records de distance parcourue d'un utilisateur en format Json   | recordDistance | Post | login :String<br>mp : String |