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| --- | --- | --- | --- |
| Resource | Parameters | Functionality | Exmaple |
| POST/login | 1- type (“client”, “admin”) --> body  2- username or email --> body  3- password --> body | login to the system with the information send. | <http://localhost:8080/login>  {  "type": "client",  "username": "client",  "email" : "client@gmail.com",  "password": "client"  } |
| GET/profile/{username} | 1- username --> URL | retreive all information for an account stored in database (Admin or Clinet) | <http://localhost:8080/profile/client> |
| GET/{username}/notifications | 1- usename --> URL | retreive all notifications for an account (Should be subscribed before for a client, but admin always subscribed) | <http://localhost:8080/client/notifications>  <http://localhost:8080/admin/notifications> |
| POST/signup/admin | 1- type (“admin”) --> body  2- username and email and  password --> body | signup an admin account to the system. (Should be unique for username and email) | <http://localhost:8080/signup/admin>  {  "type" : "admin",  "username" : "tamer",  "email" : " tamer @gmail.com",  "password": "123456"  } |
| POST/signup/client | 1- type (“client”) --> body  2- username and email and  password and wallet --> body | signup a client account to the system. (Should be unique for username and email) | <http://localhost:8080/signup/client>  {  "type" : "client",  "username" : "hazem",  "email" : "hazem@gmail.com",  "password": "123456",  "wallet" : 120  } |
| PUT/{username}/addCreditCard | 1- username ---> URL  2- CardNumber --> body  3- amount --> bodt | add credit card to a specific client in the system | <http://localhost:8080/client/addCreditCard>  {  "cardNumber" : "12343412431",  "amount": 220  } |
| PUT/{username}/addfunds | 1- username ---> URL  2- amount --> bodt | add funds to the wallet of a specific client (should have a credit card to process this feature) | <http://localhost:8080/client/addfunds>  120 |
| GET/client/check | 1- username or email --> body  2- password --> body | checking if there is a client with this info or not. | <http://localhost:8080/client/check>  {  "type" : "client",  "username" : "client",  "password": "client"  } |
| GET/search/mobile/{context} | 1- context --> URL | Searching for a mobile service starting with prefix context. | <http://localhost:8080/search/mobile/vod> |
| GET/search/internet/{context} | 1- context --> URL | Searching for an internet service starting with prefix context. | <http://localhost:8080/search/internet/e>t |
| GET/search/landline/{context} | 1- context --> URL | Searching for a landline service starting with prefix context. | <http://localhost:8080/search/landline/qua> |
| GET/search/donation/{context} | 1- context --> URL | Searching for a donation service starting with prefix context. | <http://localhost:8080/search/donation/school> |
| GET/search/service/{context} | 1- context --> URL | Searching for any service starting with prefix context for any category. | <http://localhost:8080/search/service/vod> |
| PUT/{username}/pay/mobile  /{service}/{wayIndex} | 1- username --> URL  2- servicename-> URL  3- Index of way of payment-> URL  4- amount of payment --> body | Any client could pay for a mobile service.(it will process if there is enough money for that) | <http://localhost:8080/client/pay/mobile/vodafone/2>  100 |
| PUT/{username}/pay/internet  /{service}/{wayIndex} | 1- username --> URL  2- servicename-> URL  3- Index of way of payment-> URL  4- amount of payment --> body | Any client could pay for a internet service.(it will process if there is enough money for that) | <http://localhost:8080/client/pay/internet/vodafone/2>  100 |
| PUT/{username}/pay/landline  /{service}/{wayIndex} | 1- username --> URL  2- servicename-> URL  3- Index of way of payment-> URL  4- amount of payment --> body | Any client could pay for a landline service.(it will process if there is enough money for that) | <http://localhost:8080/client/pay/landline/QuarterReceipt/2>  100 |
| PUT/{username}/pay/donation  /{service}/{wayIndex} | 1- username --> URL  2- servicename-> URL  3- Index of way of payment-> URL  4- amount of payment --> body | Any client could pay for a donation service.(it will process if there is enough money for that) | <http://localhost:8080/client/pay/donation/school/2>  100 |
| GET/{username}/mobile  /{service}/discounts | 1- username --> URL  2- servicename-> URL | Any client could check for any mobile discount over any service he want. | <http://localhost:8080/client/mobile/vodafone/discounts> |
| GET/{username}/internet  /{service}/discounts | 1- username --> URL  2- servicename-> URL | Any client could check for any internet discount over any service he want. | <http://localhost:8080/client/internet/vodafone/discounts> |
| GET/{username}/landline  /{service}/discounts | 1- username --> URL  2- servicename-> URL | Any client could check for any landline discount over any service he want. | <http://localhost:8080/client/landline/QuarterReceipt/discounts> |
| GET/{username}/donation  /{service}/discounts | 1- username --> URL  2- servicename-> URL | Any client could check for any donation discount over any service he want. | <http://localhost:8080/client/donation/school/discounts> |
| POST/{username}/addDiscount  mobile/{service} | 1- username --> URL  2- servicename-> URL  3- percentage --> body | Admin could add new discount for mobile services | <http://localhost:8080/admin/addDiscount/mobile/vodafone>  30 |
| POST/{username}/addDiscount  internet/{service} | 1- username --> URL  2- servicename-> URL  3- percentage --> body | Admin could add new discount for internet services | <http://localhost:8080/admin/addDiscount/internet/vodafone>  20 |
| POST/{username}/addDiscount  landline/{service} | 1- username --> URL  2- servicename-> URL  3- percentage --> body | Admin could add new discount for landline services | <http://localhost:8080/admin/addDiscount/landline/QuarterReceipt>  25 |
| POST/{username}/addDiscount  donation/{service} | 1- username --> URL  2- servicename-> URL  3- percentage --> body | Admin could add new discount for donation services | <http://localhost:8080/admin/addDiscount/donation/school>  12 |
| POST/{username}/addDiscount  /overall | 1- username --> URL  2- servicename-> URL  3- percentage --> body | Admin could add new overall discount for all first transaction for any client | <http://localhost:8080/admin/addDiscount/overall> |
| POST/{username}/refundrequest  /{index} | 1-username --> URL  2- index of payment transaction --> URL | Any client could add refund request for any payment transaction has completly done. | <http://localhost:8080/client/refundrequest/1> |
| GET/{username}/refunds/{index} | 1-username --> URL  2- index of payment transaction --> URL | Admin can retreive a any refund request which already in the queue waiting for response whethere acceptance or refusal. | <http://localhost:8080/admin/refunds/1> |
| PUT/{username}/refunds/{index} | 1-username --> URL  2- index of payment transaction --> URL | Admin should accept or refuse a refund request | <http://localhost:8080/admin/refunds/1>  {  true  } |
| POST/{username}/notifications/subscribe | 1-username --> URL | Any client could subscribe for the system to get any notification of interaction with refund requests. | <http://localhost:8080/client/notifications/subscribe> |
| DELETE/{username}/notifications/subscribe | 1-username --> URL | Any client could unsubscribe for the system. | <http://localhost:8080/client/notifications/unsubscribe> |
| GET/{username}/transactions/payments | 1-username --> URL | Admin could retreive all payement transactions he had done. | <http://localhost:8080/admin/transactions/payments> |
| GET/{username}/transactions/addToWallet | 1-username --> URL | Admin could retreive all add to wallet transactions he had done. | <http://localhost:8080/admin/transactions/addToWallet> |
| GET/{username}/transactions/refunds | 1-username --> URL | Admin could retreive all refund requests he had done. | <http://localhost:8080/admin/transactions/refunds> |