A+quant project   Test document of interface level

Document description:
This is the interface test document of the project which is designed to describe each interface during architecture design and check the connectivity of each interface during testing. This document records the numbers, names, routes, entry parameters and return information of the tested interfaces. Developers can use this document for checking the correctness of the whole software.

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Interface numbeere	Interface route	Entry parameters	Returned value	results
1.1	Post /user	username : "string" password : "string" email :"string"	201 rigisteration sucess 409 username existed	201
1.2	GET/user	Name_mail :"string" Password : "string"	200 login sucess { "token": "expireAt": "avatarUrl": "username": "email": "emailValidated": } 401 login fail	200
2.1	GET/user/bindingParameters		200 capture success { "modulus": "string", "exponent": "string", "eventId": "string" } 403 capture fail	200
2.2	Post/user/citiAccount	Username : "string" Password : "string"	201 binding success 403 binding fail	201

2.3	Post/user/validation/email	validationToken : string validationCode:string	204 confirm success 400 confirm fail 401 not logged on 403 need authority	204

2.4	Get/user/validation/email		200
			{
			  "validationToken":
			string,
			  "expireAt":
			string
			}
			401 not logged on
			
			403 need authority
			
			409 verified
				200

3.1	PUT/user/info	Username :string Email :string registerDate :string avatarUrl :string	200 modification success 403 access denied 404 user not found 500 system error	200
3.2	GET/user/info		200: Username :string Email :string registerDate :string avatarUrl :string 403 access denied 404 user not found 500 system error	200
4.1	Post/inverq	Profit:number Fluctuation:number Amount:number Year:number	201:sumbmission success 403: submission fail	201

4.2	Get/inverq		200:
			
			``
			[
			  {
			    "invreqId":
			"string",
			    "bought": true,
			    "recommended":
			true
			  }
			]
			``
			403:submission fail
				200

4.3	DELETE/invreq/{invreq_id}		200 deletion success 403 deletion fail	**200**

4.4	GET/invreq/{invreq_id}		200
			
			``
			{
			  "invreqId":
			"string",
			  "bought": true,
			  "recommended": true
			}
			``
			403　users　don't　have capital account
				200

4.5	GET/invreq/{invreq_id}/earnings		200
			
			``
			[
			  {
			    "date":
			    "straEarning":　0
			"baseEarning": 0
			  }
			]
			``
				200

| 4.6 | GET/invreq/{invreq_id}/matching | | 200:

```json
{
  "stockMatching": [
    {
      "quotaId": "string",
      "quotaName": "string",
      "totalValue": 0,
      "percentage": 0
    }
  ],
  "bondMatching": [
    {
      "quotaId": "string",
      "quotaName": "string",
      "totalValue": 0,
      "percentage": 0
    }
  ],

  "productionMatching": [
    {
      "quotaId": "string",
      "quotaName": "string",
      "totalValue": 0,
      "percentage": 0
    }
  ]
}
``` | 200 |

4.7	GET/invreq/{invreq_id}/overview		200
			
			``
			{
			  "accuRevenue": 0,
			  "predRorYear": 0,
			  "todayRevenue": 0,
			  "startDate":
			"string",
			  "startVolume": 0
			}
			``
				200

5.1	Post/invreq/{invreq_id}/plannedTransactions		201 transaction confirm	201
5.2	Delete/invreq/{invreq_id}/plannedTransactions		200 transaction canceled	200

| 5.3 | Get/invreq/{invreq_id}/plannedTransactions | | 200
 `{`
 `  "tranId": "string",`
 `  "tranVolume":`
 `"string",`
 `  "tranDate":`
 `"string",`
 `  "tranList": [`
 `    {`
 `      "time":`
 `"2018-09-16T02:15:28.`
 `276Z",`
 `      "type": "STOCK",`
 `      "quotaId":`
 `"string",`
 `      "quotaName":`
 `"string",`
 `      "buyOrSale":`
 `"SALE",`
 `      "quantity": 0,`
 `      "price": 0,`
 `      "totalPrice": 0,`
 `      "matching": 0,`
 `      "lastMatching":`
 `0`
 `    }`
 `  ]`
 `}` | 200 |

6.1	Get/invreq/{invreq_id}/position/dailyPosition	Invreq_id:string	200
			``json
			[
			  {
			    "quotaId": "string",
			    "quotaName": "string",
			    "currentValue": 0,
			    "quantity": 0,
			    "totalValue": 0,
			    "profitAndLoss": 0,
			    "serviceCharge": 0
			  }
			]
			``
				200

6.2	Get/invreq/{invreq_id}/position/reallocation		200
			``json
			[
			  {
			    "tranDate": "string",
			    "perOfStock": 0,
			    "changeOfStock": 0,
			    "perOfBond": 0,
			    "changeOfBond": 0,
			    "perOfProduct": 0,
			    "changeOfProduct": 0
			  }
			]
			``
				200

6.1	Get/invreq/{invreq_id}/position/dailyPosition	Invreq_id:string		

6.3	Get/invreq/{invreq_id}/position/reallocation/{date}	Invreq_id :string
		Date :string
			``
			{
			  "tranDate":
			"string",
			  "perOfStock": 0,
			  "changeOfStock": 0,
			  "perOfBond": 0,
			  "changeOfBond": 0,
			  "perOfProduct": 0,
			  "changeOfProduct": 0
			}
			``	

7.1	Put/invreq/{invreq_id}/settings	planTranTime:number planRemindTime:0 minConfirmedPrice:0 confirmTime:0 defaultConfirm:true	`201   new   transaction options established`	**201**

7.2	Get/invreq/{invreq_id}/settings		```
			200
			{
			  "planTranTime": 0,
			  "planRemindTime": 0,
			
			"minConfirmedPrice":
			0,
			  "confirmTime": 0,
			  "defaultConfirm":
			true
			}
			``
				201

| 7.3 | Get/invreq/{invreq_id}/transaction | Invreq_id | 200
```json
[
  {
    "time": "string",
    "children": [
      {
        "time": "2018-09-16T02:15:28.285Z",
        "type": "STOCK",
        "quotaId": "string",
        "quotaName": "string",
        "buyOrSale": "SALE",
        "quantity": 0,
        "price": 0,
        "totalPrice": 0,
        "matching": 0,
        "lastMatching": 0
      }
    ]
  }
]
``` | 200 |
| 8.1 | GET/invreq/{invreq_id}/stock | Invreq_id:string | 200
```json
{
  "startDate": "string",
  "currentVolume": 0,
  "currentRatio": 0
}
```

500
Sever error | 200 |

8.2	GET/invreq/{invreq_id}/stock/attribute	Invreq_id:string	200
			
			``json
			{
			  "styleConfigForm": [
			    {}
			  ],
			  "styleExplainForm":
			[
			    {}
			  ],
			
			"preferAndContrList":
			[
			    {}
			  ]
			}
			``
			500
			Sever error
				200

8.3	GET/invreq/{invreq_id}/stock/perform	Invreq_id:string	200
			
			``json
			{
			  "chartData": [
			    {}
			  ],
			  "formData": [
			    {}
			  ]
			}
			``
			500
			Sever error
				200

8.4	GET/invreq/{invreq_id}/stock/scenario	Invreq_id:string	200
			
			``json
			{
			  "marketRouteChart":
			[
			    {}
			  ],
			  "marketRouteForm": [
			    {}
			  ],
			  "sensibilityChart":
			[
			    {}
			  ]
			}
			``
			401
				200

			Password invalid	

9.1	Get/invreq/{invreq_id}/goods	Invreq_id:string	200	200

			{
			  "futuresOverview": {
			    "startDate": "string",
			    "currentVolume": 0,
			    "currentRatio": 0,
			    "profit": 0,
			    "quotaId": "string",
			    "name": "string",
			    "price": 0,
			    "quantity": 0
			  },
			  "spotOverview": {
			    "startDate": "string",
			    "currentVolume": 0,
			    "currentRatio": 0,
			    "profit": 0,
			    "quotaId": "string",
			    "name": "string",
			    "price": 0,
			    "quantity": 0
			  }
			}
			
			401 not logged on
			
			403 need authority
			
			500 sever error	

| 9.2 | GET/invreq/{invreq_id}/goods/comparision_with_market_benchmark | | 200

 ```json { "comparisionWithMarketBenchmark": [{   "date": "string",   "marketRatio1": 0,   "marketRatio2": 0,   "totalIncomeRatio": 0   }] } ```
 401
 Not logged on
 403
 Need authority
 500
 Server error | 200 |

| 9.3 | GET/invreq/{invreq_id}/goods/dynamic_drawdown_and_absolute_return | | 200
```json
{
  "absoluteReturn": [
    {
      "date": "string",
      "bonusRatio": [
        {
          "name": "string",
          "ratio": 0
        }
      ],
"totalIncomeRatio": 0,
      "totalIncome": 0
    }
  ],
  "maxDrawdown": 0,
  "startDate": "string",
  "endDate": "string",
  "days": 0
}
```
401 not logged on

403 need authority

500 server error | 200 |

9.4	GET/invreq/{invreq_id}/goods/factor_sensitivity_analysis	Invreq_id	200	200

			`{`
			
			`"factorSensitivity":`
			`[`
			`    {`
			
			`"weekIncomeRatio": 0,`
			
			`"weekFluctuationRatio": 0`
			`    }`
			`  ],`
			`  "x1": 0,`
			`  "y1": 0,`
			`  "x2": 0,`
			`  "y2": 0`
			`}`
			401 `not logged on`
			
			403 `need authority`
			
			500 `server error`	

| 10.1 | GET/invreq/{invreq_id}/goods/memorabilia | Invreq_id：string | 200
```json
{
  "memorabilia": [
    {
      "scene": "string",
      "startDate": "string",
      "endDate": "string",
      "returnRatio": 0,
      "maxDrawdown": 0,
      "fluctuation": 0,

"nanhuaMarketRatio": 0
    }
  ]
}
```
401 not logged on

403 need authority

500 server error | 200 |

| 10.2 | GET/invreq/{in vreq_id}/good s/residual_ana lysis | Invreq_id:string | 200
{
  "residualList": [
    {
      "date":
"string",
      "residual": 0
    }
  ],
  "kurt": 0,
  "skew": 0
}

401 not logged on

403 need authority

500 server error | 200 |

10.3	GET/invreq/{in vreq_id}/good s/scene_analy sis	Invreq_id:string	200	200
			``` { "totalIncomeRatioList ": [{ "date": "string", "type": "string", "totalIncomeRatio": 0 }], "typeData": [{ "type": "string", "weekNum": 0, "maxWeekIncomeRatio": 0, "minWeekIncomeRatio": 0, "fluctuationRatio": 0, "maxDrawdown": 0, "sharpeRatio": 0, "calmarRatio": 0 }] } 401 not logged on 403 need authority 500 server error ```	

11.1	POST/user/inv pref		200
			
			``
			{
			  "profit": 0,
			  "fluctuation": 0
			}
			``
			
			403 capture fail
				200

11.2	POST/user/inv pref/{usernam e}	"profit":0 "fluctuation":0 username:string	201 capture success 403 capture success	201

11.3	GET/notificatio n		200
			
			``
			[
			  {
			    "id": "string",
			    "type":
			"PreferenceEvaluation
			Others",
			    "dateTime":
			"2018-09-16T02:15:28.
			315Z"
			  }
			]
			``
				200