# PHP task - make bet

# Notes:

- We follow PSR-2 style guide.
- You may use any technology/software to achieve result: PHP + anything (Laravel preferable).
- Simple and lightweight solutions are always an advantage.

#### Goal

Create API which follows provided documentation.

# Part 1

Validate input bet for provided rules and add error codes and messages to global or selection levels.

- (global) input data structure should be valid
- (global) stake\_amount should be in interval between [0.3, 10000]
- (global) min number of selections is 1
- (global) max number of selections is 20
- (global) maximum max win amount is 20000
- (selection) odds should be in interval between [1, 10000]
- (selection) player can not bet on selections with same ID

max win amount = stake\_amount \* (multiply of all selection odds)

# **Avaliable errors:**

Code	Туре	Message
0	global	Unknown error
1	global	Betslip structure mismatch
2	global	Minimum stake amount is :min_amount
3	global	Maximum stake amount is :max_amount
4	global	Minimum number of selections is :min_selections
5	global	Maximum number of selections is :max_selections
6	selection	Minimum odds are :min_odds
7	selection	Maximum odds are :max_odds
8	selection	Duplicate selection found
9	global	Maximum win amount is :max_win_amount
10	global	Your previous action is not finished yet
11	global	Insufficient balance

# Request:

• URL

/api/bet

· Method:

POST

• Data:

```
{
    // type: int
    // (mandatory) unique player id in the system
    "player_id": 1,
    // type: string
    // (mandatory) amount of money player wants to bet, max number of numbers after dot is 2
    "stake_amount": "99.99",
    // type: array
    // (mandatory) selection (events) on which player wants to bet
    "selections": [
        {
            // type: int
            \ensuremath{/\!/} (mandatory) selection (event) ID on which player want to bet
            "id": 1,
            // type: string, max number of numbers after dot is 3
            // (mandatory) odds (coefficient) of our selection,
            "odds": "1.601",
        },
    ]
}
```

#### Response:

• Successful response:

```
HTTP Code: 201Content: {}
```

· Failed response:

• HTTP Code: 400

```
Content:
```

```
// GLOBAL errors
    // type: array
    \ensuremath{/\!/} (on error) will be added if global level errors will occur
    "errors": [],
    // type: array
    // (on error) selection (events) on which player wants to bet
    "selections": [
            // type: int
            // (on error) selection (event) ID on which player want to bet
            "id": 1,
            // SELECTION errors
            // type: array
            // (on error) will be added if selection level errors will occur
             "errors": [],
        },
    ]
}
```

# Samples:

Successful

Request:

```
{
      "player_id": 1,
"stake_amount": "5",
      "selections": [
          {
               "id": 1,
"odds": "1.601"
          }
      ]
  }
Response: {}
Failed
Request:
  {
      "player_id": 1,
      "stake_amount": "10000.01",
      "selections": [
          {
               "id": 1,
"odds": "2.001"
          },
           {
               "id": 1,
"odds": "2.001"
          }
      ]
  }
Max win amount: 10000.01 * 2.001 * 2.001 = 40040,05
Response:
      "errors": [
          {
               "code": 3,
               "message": "Maximum stake amount is 10000"
          },
           {
               "code": 9,
               "message": "Maximum win amount is 20000"
          }
      ],
      "selections": [
           {
               "id": 1,
               "errors": [
                   {
                        "code": 8,
                        "message": "Duplicate selection found"
               ]
          },
               "id": 1,
               "errors": [
                   {
                        "code": 8,
                        "message": "Duplicate selection found"
               ]
          }
      ]
```

# Part 2

Create at least this tables: player, balance\_transaction, bet, bet\_selections. You can create new tables or add new columns if needed. Column types are up to you.

#### player:

- id player\_id
- balance current player balance, default 1000

#### balance\_transaction:

- id
- player\_id
- amount
- amount\_before

#### bet:

- id
- stake amount
- created\_at

#### bet\_selections:

- id
- bet\_id
- · selection\_id
- odds

If validation did not return any errors and player does not exist in database, create player with provided player\_id and default balance amount (1000).

Fill tables bet, bet\_selections, balance\_transaction and player according to input data. If balance is not enough return appropriate error\_code.

Do not forget to update player.balance after operation.