

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)

Available errors:

Code	Type	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  
            // (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:** 201
Content: {}

- **Failed response:**

- **HTTP Code:** 400
Content:

```
{  
    // GLOBAL errors  
    // type: array  
    // (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.