

# API documentation for Exam project

## Tools and technologies used:

- Spring Data JPA
- JDK - 1.8 or later
- Maven - 3.6.3
- Db - MySQL
- IDE - IntelliJ idea

Unit Test: Please run RestApiTest class

## API List:

1. API to enroll players (create player)

POST API- <http://localhost:8080/api/v1/players>

Request body:

```
{
  "userName": "Shala",
  "fullName": "Shala",
  "address": "Dhaka",
  "email": "Shala@gmail.com",
  "mobile": "01712922516"
}
```

Response body:

```
{
  "timestamp": 1661571631226,
  "status": "OK",
  "statusCode": 200,
  "message": "Player created successfully",
  "totalCount": 0,
  "numberOfElements": 0,
  "content": {
    "userName": "TestUser",
    "fullName": " TestUser",
    "address": "Dhaka",
    "email": "TestUser@gmail.com",
    "mobile": "01712922516"
  }
}
```

2. API to create a task.

POST API- <http://localhost:8080/api/v1/tasks>

Request body:

```
{
  "taskTitle": "Home work",
  "taskMessage": "Total homework"
}
```

Response body:

```
{
  "timestamp": 1661571889215,
  "status": "OK",
  "statusCode": 200,
  "message": "Task created successfully",
  "totalCount": 0,
  "numberOfElements": 0,
  "content": {
    "id": 26,
    "taskTitle": "Home work2",
    "taskMessage": "Total homework 2"
  }
}
```

### 3. API to create schedule

POST API- <http://localhost:8080/api/v1/schedule>

Request body:

```
{
  "scheduleName": "First Schedule",
  "scheduleStartTime": "2022-09-02 09:30:00",
  "scheduleEndTime": "2022-09-02 10:30:00"
}
```

Response body:

```
{
  "timestamp": 1661573166969,
  "status": "OK",
  "statusCode": 200,
  "message": "Schedule created successfully",
  "totalCount": 0,
  "numberOfElements": 0,
  "content": {
    "id": 27,
    "scheduleName": "First Schedule",
    "scheduleStartTime": "2022-09-02 09:30:00",
    "scheduleEndTime": "2022-09-02 10:30:00"
  }
}
```

### 4. API to assign a task to a/multiple players with schedule

## POST API- <http://localhost:8080/api/v1/assignedTask>

Request body:

```
{
  "schedule": {
    "id": 3
  },
  "task": {
    "id": 2
  },
  "playerList": [
    {
      "userName": "abc"
    },
    {
      "userName": "Shala"
    }
  ]
}
```

Response body:

```
{
  "timestamp": 1661573367647,
  "status": "OK",
  "statusCode": 200,
  "message": "Assigned task assigned successfully",
  "totalCount": 0,
  "numberOfElements": 0,
  "content": {
    "id": 28,
    "schedule": {
      "id": 3,
      "scheduleName": "First Schedule",
      "scheduleStartTime": "2022-09-02 08:30:00",
      "scheduleEndTime": "2022-09-02 08:30:00"
    },
    "task": {
      "id": 2,
      "taskTitle": "Home work2",
      "taskMessage": "Total homework 2"
    },
    "playerList": [
      {
        "userName": "abc",
        "fullName": "abc efg hij",
        "address": "Dhaka",
        "email": "abc@gmail.com",
        "mobile": "01712922516565"
      },
      {
        "userName": "Shala",
        "fullName": "Shala",
        "address": "Dhaka",
        "email": "Shala@gmail.com",
        "mobile": "01712922516"
      }
    ]
  }
}
```

## 5. API to get the list of tasks assigned to a player

## GET API - <http://localhost:8080/api/v1/assignedTask>

Response body:

```
{
  "timestamp": 1661573468896,
  "status": "OK",
  "statusCode": 200,
  "message": "All Assigned tasks",
  "totalCount": 0,
  "numberOfElements": 0,
  "content": [
    {
      "id": 16,
      "schedule": {
        "id": 3,
        "scheduleName": "First Schedule",
        "scheduleStartTime": "2022-09-02 08:30:00",
        "scheduleEndTime": "2022-09-02 08:30:00"
      },
      "task": {
        "id": 2,
        "taskTitle": "Home work2",
        "taskMessage": "To tal homework 2"
      },
      "playerList": [
        {
          "userName": "abc",
          "fullName": "abc efg hij",
          "address": "Dhaka",
          "email": "abc@gmail.com",
          "mobile": "01712922516565"
        },
        {
          "userName": "h",
          "fullName": "h",
          "address": "Dhaka",
          "email": "Shkhalala@gmail.com",
          "mobile": "01712922516"
        }
      ]
    }
  ]
}
```

```

        "mobile": "0171292251",
        "id": 6565
    }
]

```

6. API to get all the schedules and its assigned tasks and player names according to the given time range by API client (search).

GET API - <http://localhost:8080/api/v1/assignedTask/getScheduleWiseTaskDetails>

Response body:

```

{
    "timestamp": 1661573735373,
    "status": "OK",
    "statusCode": 200,
    "message": "All Assigned tasks",
    "totalCount": 0,
    "numberOfElements": 0,
    "content": [
        {
            "schedule": {
                "id": 3,
                "scheduleName": "First Schedule",
                "scheduleStartTime": "2022-09-02 08:30:00",
                "scheduleEndTime": "2022-09-02 08:30:00"
            },
            "assignedTaskDtos": [
                {
                    "id": 16,
                    "schedule": null,
                    "task": {
                        "id": 2,
                        "taskTitle": "Home work2",
                        "taskMessage": "Total homework 2"
                    },
                    "playerList": [
                        {
                            "userName": "abc",
                            "fullName": "abc efg",
                            "address": "Dhaka",
                            "email": "abc@gmail.com",
                            "mobile": "0171292251"
                        },
                        {
                            "userName": "Shala",
                            "fullName": "Shala",
                            "address": "Dhaka",
                            "email": "Shala@gmail.com",
                            "mobile": "0171292251"
                        }
                    ]
                }
            ]
        }
    ]
}

```

```

        "email": "Shala@gmail"
    },
    "mobile": "0171292251"
}

    }
}

    ]
}

    {
        "schedule": {
            "id": 5,
            "scheduleName": "First Schedule2"
        },
        "scheduleStartTime": "2022-09-
02 09:30:00",
        "scheduleEndTime": "2022-09-
02 10:30:00"
    },
    "assignedTaskDtos": [
        {
            "id": 17,
            "schedule": null,
            "task": null,
            "playerList": []
        },
        {
            "id": 18,
            "schedule": null,
            "task": null,
            "playerList": []
        },
        {
            "id": 20,
            "schedule": null,
            "task": null,
            "playerList": []
        },
        {
            "id": 22,
            "schedule": null,
            "task": null,
            "playerList": []
        },
        {
            "id": 24,
            "schedule": null,
            "task": null,
            "playerList": []
        }
    ]
}

```