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"
}
```

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

Response body:

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

```
Response body:
Request body:
                                               {
                                                   "timestamp": 1661571889215,
   "taskTitle": "Home work",
                                                   "status": "OK",
   "taskMessage": "Total homewor
                                                   "statusCode": 200,
k"
                                                   "message": "Task created success
}
                                               fully",
                                                   "totalCount": 0,
                                                   "numberOfElements": 0,
                                                   "content": {
                                                       "id": 26,
                                                       "taskTitle": "Home work2",
                                                       "taskMessage": "Total homewo
                                               rk 2"
```

Response body:

3. API to create schedule

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

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

```
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 succ
essfully",
    "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"
            }
       ]
    }
```

GET API - http://localhost:8080/api/v1/assignedTask Response body:

```
"email": "Skkk
{
                                                           khala@gmail.com",
    "timestamp": 1661573468896,
                                                                                "mobile": "017
    "status": "OK",
                                                           12922516"
    "statusCode": 200,
    "message": "All Assigned taske
s",
                                                                   },
    "totalCount": 0,
    "numberOfElements": 0,
                                                                       "id": 28,
    "content": [
                                                                       "schedule": {
                                                                            "id": 3,
            "id": 16,
                                                                            "scheduleName": "F
            "schedule": {
                                                           irst Schedule".
                "id": 3,
                                                                            "scheduleStartTime
                "scheduleName": "F
                                                           ": "2022-09-02 08:30:00",
irst Schedule",
                                                                           "scheduleEndTime":
                "scheduleStartTime
                                                            "2022-09-02 08:30:00"
": "2022-09-02 08:30:00",
                                                                       },
                "scheduleEndTime":
                                                                       "task": {
 "2022-09-02 08:30:00"
                                                                            "id": 2,
            },
                                                                            "taskTitle": "Home
            "task": {
                                                            work2",
                "id": 2,
                                                                            "taskMessage": "To
                "taskTitle": "Home
                                                           tal homework 2"
 work2",
                "taskMessage": "To
                                                                       "playerList": [
tal homework 2"
            },
                                                                                "userName": "a
            "playerList": [
                                                           bc",
                {
                                                                                "fullName": "a
                     "userName": "a
                                                           bc efg hij",
bc",
                                                                                "address": "Dh
                     "fullName": "a
                                                           aka",
bc efg hij",
                                                                                "email": "abc@
                     "address": "Dh
                                                           gmail.com",
aka",
                                                                                "mobile": "017
                     "email": "abc@
                                                           12922516565"
gmail.com",
                                                                            },
                     "mobile": "017
12922516565"
                                                                                "userName": "h
                },
                                                           hhhhhh",
                                                                                "fullName": "h
                     "userName": "h
                                                           hhhhh",
hhhhh",
                                                                                "address": "Dh
                     "fullName": "h
                                                           aka",
hhhhhh",
                                                                                "email": "Shkk
                     "address": "Dh
                                                           ala@gmail.com",
aka",
```

```
"mobile": "017 ]
12922516" ]
}
```

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:

```
"mobile": "0171292251
                                                           6565"
    "timestamp": 1661573735373,
                                                                                    },
    "status": "OK",
    "statusCode": 200,
                                                                                        "userName": "Shala",
    "message": "All Assigned taskes",
                                                                                        "fullName": "Shala",
    "totalCount": 0,
                                                                                        "address": "Dhaka",
    "numberOfElements": 0,
                                                                                        "email": "Shala@gmail
    "content": [
                                                           .com",
                                                                                        "mobile": "0171292251
            "schedule": {
                                                           6"
                "id": 3,
                "scheduleName": "First Schedule",
                                                                                ]
                "scheduleStartTime": "2022-09-
                                                                            },
02 08:30:00",
                "scheduleEndTime": "2022-09-
                                                                                "id": 28,
02 08:30:00"
                                                                                "schedule": null,
                                                                                "task": {
            "assignedTaskDtos": [
                                                                                    "id": 2,
                                                                                    "taskTitle": "Home work2"
                     "id": 16,
                                                                                    "taskMessage": "Total hom
                     "schedule": null,
                                                           ework 2"
                     "task": {
                         "id": 2,
                                                                                "playerList": [
                         "taskTitle": "Home work2"
                                                                                        "userName": "abc",
                         "taskMessage": "Total hom
                                                                                        "fullName": "abc efg
ework 2"
                                                           hij",
                     },
                                                                                        "address": "Dhaka",
                     "playerList": [
                                                                                        "email": "abc@gmail.c
                         {
                                                           om",
                             "userName": "abc",
                                                                                        "mobile": "0171292251
                             "fullName": "abc efg
                                                           6565"
hij",
                                                                                    },
                             "address": "Dhaka",
                             "email": "abc@gmail.c
                                                                                        "userName": "Shala",
om",
                                                                                        "fullName": "Shala",
                                                                                        "address": "Dhaka",
```

```
"email": "Shala@gmail
.com",
                                                              ]
                            "mobile": "0171292251
6"
                    ]
        },
        {
            "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": []
            ]
```