

Cricket Scoring API Documentation

Overview

This document provides detailed information about the Cricket Scoring API, a comprehensive RESTful service that enables real-time cricket match scoring, player statistics tracking, and match management.

Base URL

```
http://localhost:5000
```

Authentication

Authentication is not implemented in the current version.

Data Models

Team

Field	Type	Description
name	String	Team name
players	Array	List of player IDs
captain	ObjectId	ID of the team captain
score	Object	Current match score
extras	Object	Extras in the current match

Player

Field	Type	Description
name	String	Player name
team	ObjectId	ID of the player's team
battingStats	Object	Batting statistics
bowlingStats	Object	Bowling statistics

Match

Field	Type	Description
name	String	Match title (e.g., "MI vs RCB")
venue	String	Match location
date	Date	Match date and time
teams	Object	Teams participating
toss	Object	Toss details
currentInnings	Number	Current innings (1 or 2)
overs	Number	Total overs in the match
status	String	Match status (upcoming, live, completed)
result	Object	Match result (if completed)

Delivery

Field	Type	Description
match	ObjectId	Associated match ID
innings	Number	Innings number
over	Number	Over number
ball	Number	Ball number within the over
batsman	ObjectId	Current batsman
bowler	ObjectId	Current bowler
nonStriker	ObjectId	Non-striking batsman
deliveryType	String	Type of delivery
outcome	String	Outcome of the delivery
runs	Number	Runs scored
wicket	Object	Wicket details (if any)
extras	Object	Extras details (if any)

API Endpoints

Teams

Create a Team

- **URL:** `/teams`
- **Method:** `POST`
- **Request Body:**

json

```
{
  "name": "Mumbai Indians",
  "score": {
    "runs": 0,
    "wickets": 0,
    "overs": 0,
    "balls": 0
  },
  "extras": {
    "wide": 0,
    "noBall": 0,
    "bye": 0,
    "legBye": 0,
    "total": 0
  }
}
```

- **Success Response:** 201 Created

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4567",
    "name": "Mumbai Indians",
    "players": [],
    "score": {
      "runs": 0,
      "wickets": 0,
      "overs": 0,
      "balls": 0
    },
    "extras": {
      "wide": 0,
      "noBall": 0,
      "bye": 0,
      "legBye": 0,
      "total": 0
    },
    "createdAt": "2023-05-22T10:30:43.000Z",
    "updatedAt": "2023-05-22T10:30:43.000Z",
    "__v": 0
  }
}
```

Get All Teams

- URL: `/teams`
- Method: `GET`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": [
    {
      "_id": "60a8b9b3e6d8a42a1c8b4567",
      "name": "Mumbai Indians",
      "players": [],
      "score": {
        "runs": 0,
        "wickets": 0,
        "overs": 0,
        "balls": 0
      },
      "extras": {
        "wide": 0,
        "noBall": 0,
        "bye": 0,
        "legBye": 0,
        "total": 0
      }
    }
  ]
}
```

Get a Team

- URL: `/teams/:id`
- Method: `GET`
- URL Parameters: `id=[ObjectId]`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4567",
    "name": "Mumbai Indians",
    "players": [
      {
        "_id": "60a8b9b3e6d8a42a1c8b4568",
        "name": "Rohit Sharma"
      }
    ],
    "score": {
      "runs": 0,
      "wickets": 0,
      "overs": 0,
      "balls": 0
    },
    "extras": {
      "wide": 0,
      "noBall": 0,
      "bye": 0,
      "legBye": 0,
      "total": 0
    }
  }
}
```

Update a Team

- URL: `/teams/:id`
- Method: `PUT`
- URL Parameters: `id=[ObjectId]`
- Request Body:

json

```
{
  "name": "Mumbai Indians Updated",
  "captain": "60a8b9b3e6d8a42a1c8b4568"
}
```

- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4567",
    "name": "Mumbai Indians Updated",
    "captain": "60a8b9b3e6d8a42a1c8b4568",
    "players": ["60a8b9b3e6d8a42a1c8b4568"],
    "score": {
      "runs": 0,
      "wickets": 0,
      "overs": 0,
      "balls": 0
    },
    "extras": {
      "wide": 0,
      "noBall": 0,
      "bye": 0,
      "legBye": 0,
      "total": 0
    }
  }
}
```

Delete a Team

- URL: `/teams/:id`
- Method: `DELETE`
- URL Parameters: `id=[ObjectId]`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {}
}
```

Players

Create a Player

- URL: `/players`
- Method: `POST`

- **Request Body:**

json

```
{
  "name": "Virat Kohli",
  "team": "60a8b9b3e6d8a42a1c8b4567",
  "battingStats": {
    "runs": 0,
    "balls": 0,
    "fours": 0,
    "sixes": 0,
    "notOut": true
  },
  "bowlingStats": {
    "overs": 0,
    "balls": 0,
    "maidens": 0,
    "runs": 0,
    "wickets": 0
  }
}
```

- **Success Response:** (201 Created)

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4568",
    "name": "Virat Kohli",
    "team": "60a8b9b3e6d8a42a1c8b4567",
    "battingStats": {
      "runs": 0,
      "balls": 0,
      "fours": 0,
      "sixes": 0,
      "notOut": true
    },
    "bowlingStats": {
      "overs": 0,
      "balls": 0,
      "maidens": 0,
      "runs": 0,
      "wickets": 0
    },
    "createdAt": "2023-05-22T10:35:43.000Z",
    "updatedAt": "2023-05-22T10:35:43.000Z",
    "__v": 0
  }
}
```

Get All Players

- URL: `/players`
- Method: `GET`
- Query Parameters:
 - `team=[ObjectId]` (optional)
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": [
    {
      "_id": "60a8b9b3e6d8a42a1c8b4568",
      "name": "Virat Kohli",
      "team": {
        "_id": "60a8b9b3e6d8a42a1c8b4567",
        "name": "Royal Challengers Bangalore"
      },
      "battingStats": {
        "runs": 0,
        "balls": 0,
        "fours": 0,
        "sixes": 0,
        "notOut": true
      },
      "bowlingStats": {
        "overs": 0,
        "balls": 0,
        "maidens": 0,
        "runs": 0,
        "wickets": 0
      }
    }
  ]
}
```

Get a Player

- URL: `/players/:id`
- Method: `GET`
- URL Parameters: `id=[ObjectId]`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4568",
    "name": "Virat Kohli",
    "team": {
      "_id": "60a8b9b3e6d8a42a1c8b4567",
      "name": "Royal Challengers Bangalore"
    },
    "battingStats": {
      "runs": 0,
      "balls": 0,
      "fours": 0,
      "sixes": 0,
      "notOut": true
    },
    "bowlingStats": {
      "overs": 0,
      "balls": 0,
      "maidens": 0,
      "runs": 0,
      "wickets": 0
    }
  }
}
```

Update a Player

- URL: `/players/:id`
- Method: `PUT`
- URL Parameters: `id=[ObjectId]`
- Request Body:

json

```
{
  "name": "Virat Kohli",
  "team": "60a8b9b3e6d8a42a1c8b1234"
}
```

- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b4568",
    "name": "Virat Kohli",
    "team": "60a8b9b3e6d8a42a1c8b1234",
    "battingStats": {
      "runs": 0,
      "balls": 0,
      "fours": 0,
      "sixes": 0,
      "notOut": true
    },
    "bowlingStats": {
      "overs": 0,
      "balls": 0,
      "maidens": 0,
      "runs": 0,
      "wickets": 0
    }
  }
}
```

Delete a Player

- URL: `/players/:id`
- Method: `DELETE`
- URL Parameters: `id=[ObjectId]`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": {}
}
```

Matches

Create a Match

- URL: `/matches`
- Method: `POST`

- **Request Body:**

json

```
{
  "name": "MI vs RCB",
  "venue": "Wankhede Stadium, Mumbai",
  "date": "2025-04-20T14:00:00.000Z",
  "teams": {
    "team1": "60a8b9b3e6d8a42a1c8b4567",
    "team2": "60a8b9b3e6d8a42a1c8b1234"
  },
  "toss": {
    "winner": "60a8b9b3e6d8a42a1c8b4567",
    "decision": "bat"
  },
  "overs": 20
}
```

- **Success Response:** (201 Created)

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b7890",
    "name": "MI vs RCB",
    "venue": "Wankhede Stadium, Mumbai",
    "date": "2025-04-20T14:00:00.000Z",
    "teams": {
      "team1": "60a8b9b3e6d8a42a1c8b4567",
      "team2": "60a8b9b3e6d8a42a1c8b1234"
    },
    "toss": {
      "winner": "60a8b9b3e6d8a42a1c8b4567",
      "decision": "bat"
    },
    "currentInnings": 1,
    "overs": 20,
    "status": "upcoming",
    "createdAt": "2023-05-22T11:00:43.000Z",
    "updatedAt": "2023-05-22T11:00:43.000Z",
    "__v": 0
  }
}
```

Get All Matches

- URL: `/matches`
- Method: `GET`
- Success Response: `200 OK`

json

```
{
  "success": true,
  "data": [
    {
      "_id": "60a8b9b3e6d8a42a1c8b7890",
      "name": "MI vs RCB",
      "venue": "Wankhede Stadium, Mumbai",
      "date": "2025-04-20T14:00:00.000Z",
      "teams": {
        "team1": {
          "_id": "60a8b9b3e6d8a42a1c8b4567",
          "name": "Mumbai Indians"
        },
        "team2": {
          "_id": "60a8b9b3e6d8a42a1c8b1234",
          "name": "Royal Challengers Bangalore"
        }
      },
      "toss": {
        "winner": {
          "_id": "60a8b9b3e6d8a42a1c8b4567",
          "name": "Mumbai Indians"
        },
        "decision": "bat"
      },
      "currentInnings": 1,
      "overs": 20,
      "status": "upcoming"
    }
  ]
}
```

Get a Match

- URL: `/matches/:id`
- Method: `GET`
- URL Parameters: `id=[ObjectId]`

- **Success Response:** (200 OK)

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b7890",
    "name": "MI vs RCB",
    "venue": "Wankhede Stadium, Mumbai",
    "date": "2025-04-20T14:00:00.000Z",
    "teams": {
      "team1": {
        "_id": "60a8b9b3e6d8a42a1c8b4567",
        "name": "Mumbai Indians",
        "players": [...]
      },
      "team2": {
        "_id": "60a8b9b3e6d8a42a1c8b1234",
        "name": "Royal Challengers Bangalore",
        "players": [...]
      }
    },
    "toss": {
      "winner": {
        "_id": "60a8b9b3e6d8a42a1c8b4567",
        "name": "Mumbai Indians"
      },
      "decision": "bat"
    },
    "currentInnings": 1,
    "overs": 20,
    "status": "upcoming"
  }
}
```

Update Match Status

- **URL:** (/matches/:id/status)
- **Method:** (PATCH)
- **URL Parameters:** (id=[ObjectId])
- **Request Body:**

json

```
{
  "status": "live"
}
```

- **Success Response:** `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b7890",
    "name": "MI vs RCB",
    "status": "live",
    ...
  }
}
```

Update Match Result

- **URL:** `/matches/:id/result`
- **Method:** `PATCH`
- **URL Parameters:** `id=[ObjectId]`
- **Request Body:**

json

```
{
  "result": {
    "winner": "60a8b9b3e6d8a42a1c8b1234",
    "margin": "6 wickets"
  }
}
```

- **Success Response:** `200 OK`

json

```
{
  "success": true,
  "data": {
    "_id": "60a8b9b3e6d8a42a1c8b7890",
    "name": "MI vs RCB",
    "status": "completed",
    "result": {
      "winner": "60a8b9b3e6d8a42a1c8b1234",
      "margin": "6 wickets"
    },
    ...
  }
}
```

Scoring

Add a Delivery

- **URL:** `/scores/delivery`
- **Method:** `POST`
- **Request Body:**

json

```
{
  "matchId": "60a8b9b3e6d8a42a1c8b7890",
  "deliveryType": "normal",
  "outcome": "run",
  "runs": 4,
  "isOverthrow": false,
  "isBoundary": true,
  "isSix": false,
  "batsmanId": "60a8b9b3e6d8a42a1c8b4568",
  "bowlerId": "60a8b9b3e6d8a42a1c8b4569",
  "nonStrikerId": "60a8b9b3e6d8a42a1c8b4570"
}
```

- **Success Response:** `201 Created`

json

```
{
  "success": true,
  "data": {
    "delivery": {
      "_id": "60a8b9b3e6d8a42a1c8b8901",
      "match": "60a8b9b3e6d8a42a1c8b7890",
      "innings": 1,
      "over": 0,
      "ball": 1,
      "batsman": "60a8b9b3e6d8a42a1c8b4568",
      "bowler": "60a8b9b3e6d8a42a1c8b4569",
      "nonStriker": "60a8b9b3e6d8a42a1c8b4570",
      "deliveryType": "normal",
      "outcome": "run",
      "runs": 4,
      "isOverthrow": false,
      "isBoundary": true,
      "timestamp": "2023-05-22T11:15:43.000Z"
    },
    "scoreUpdate": {
      "team": {
        "runs": 4,
        "wickets": 0,
        "overs": 0,
        "balls": 1
      },
      "batsman": {
        "id": "60a8b9b3e6d8a42a1c8b4568",
        "runs": 4,
        "balls": 1,
        "fours": 1,
        "sixes": 0
      },
      "bowler": {
        "id": "60a8b9b3e6d8a42a1c8b4569",
        "overs": 0,
        "balls": 1,
        "runs": 4,
        "wickets": 0,
        "maidenOvers": 0
      },
      "extras": {
        "wide": 0,
        "noBall": 0,
        "bye": 0,
        "legBye": 0,

```

```
        "total": 0
    }
}
}
```

Record a Wicket

- **URL:** `/scores/delivery`
- **Method:** `POST`
- **Request Body:**

json

```
{
  "matchId": "60a8b9b3e6d8a42a1c8b7890",
  "deliveryType": "normal",
  "outcome": "wicket",
  "runs": 0,
  "isOverthrow": false,
  "batsmanId": "60a8b9b3e6d8a42a1c8b4568",
  "bowlerId": "60a8b9b3e6d8a42a1c8b4569",
  "nonStrikerId": "60a8b9b3e6d8a42a1c8b4570",
  "wicket": {
    "type": "caught",
    "playerId": "60a8b9b3e6d8a42a1c8b4568",
    "fielder": "60a8b9b3e6d8a42a1c8b4571"
  }
}
```

- **Success Response:** `201 Created`

json

```
{
  "success": true,
  "data": {
    "delivery": {
      "_id": "60a8b9b3e6d8a42a1c8b8902",
      "match": "60a8b9b3e6d8a42a1c8b7890",
      "innings": 1,
      "over": 0,
      "ball": 2,
      "batsman": "60a8b9b3e6d8a42a1c8b4568",
      "bowler": "60a8b9b3e6d8a42a1c8b4569",
      "nonStriker": "60a8b9b3e6d8a42a1c8b4570",
      "deliveryType": "normal",
      "outcome": "wicket",
      "runs": 0,
      "isOverthrow": false,
      "wicket": {
        "type": "caught",
        "player": "60a8b9b3e6d8a42a1c8b4568",
        "fielder": "60a8b9b3e6d8a42a1c8b4571"
      },
      "timestamp": "2023-05-22T11:16:43.000Z"
    },
    "scoreUpdate": {
      "team": {
        "runs": 0,
        "wickets": 1,
        "overs": 0,
        "balls": 1
      },
      "batsman": {
        "id": "60a8b9b3e6d8a42a1c8b4568",
        "runs": 0,
        "balls": 1,
        "fours": 0,
        "sixes": 0
      },
      "bowler": {
        "id": "60a8b9b3e6d8a42a1c8b4569",
        "overs": 0,
        "balls": 1,
        "runs": 0,
        "wickets": 1,
        "maidenOvers": 0
      },
      "extras": {
```

```
        "wide": 0,  
        "noBall": 0,  
        "bye": 0,  
        "legBye": 0,  
        "total": 0  
    }  
}  
}
```

Get Deliveries

- **URL:** `/scores/deliveries`
- **Method:** `GET`
- **Query Parameters:**
 - `matchId=[ObjectId]` (optional)
 - `innings=[Number]` (optional)
 - `over=[Number]` (optional)
- **Success Response:** `200 OK`

json


```
{
  "success": true,
  "data": [
    {
      "_id": "60a8b9b3e6d8a42a1c8b8901",
      "match": "60a8b9b3e6d8a42a1c8b7890",
      "innings": 1,
      "over": 0,
      "ball": 1,
      "batsman": {
        "_id": "60a8b9b3e6d8a42a1c8b4568",
        "name": "Virat Kohli"
      },
      "bowler": {
        "_id": "60a8b9b3e6d8a42a1c8b4569",
        "name": "Jasprit Bumrah"
      },
      "nonStriker": {
        "_id": "60a8b9b3e6d8a42a1c8b4570",
        "name": "Faf du Plessis"
      },
      "deliveryType": "normal",
      "outcome": "run",
      "runs": 4,
      "isOverthrow": false,
      "isBoundary": true
    },
    {
      "_id": "60a8b9b3e6d8a42a1c8b8902",
      "match": "60a8b9b3e6d8a42a1c8b7890",
      "innings": 1,
      "over": 0,
      "ball": 2,
      "batsman": {
        "_id": "60a8b9b3e6d8a42a1c8b4568",
        "name": "Virat Kohli"
      },
      "bowler": {
        "_id": "60a8b9b3e6d8a42a1c8b4569",
        "name": "Jasprit Bumrah"
      },
      "nonStriker": {
        "_id": "60a8b9b3e6d8a42a1c8b4570",
        "name": "Faf du Plessis"
      },
      "deliveryType": "normal",
```

```
    "outcome": "wicket",
    "runs": 0,
    "wicket": {
      "type": "caught",
      "player": "60a8b9b3e6d8a42a1c8b4568",
      "fielder": "60a8b9b3e6d8a42a1c8b4571"
    }
  }
]
}
```

Remove a Delivery

- **URL:** `/scores/delivery/:id`
- **Method:** `DELETE`
- **URL Parameters:** `id=[ObjectId]`
- **Success Response:** `200 OK`

json

```
{
  "success": true,
  "data": {}
}
```

Get Current Scorecard

- **URL:** `/scores/scorecard/:matchId`
- **Method:** `GET`
- **URL Parameters:** `matchId=[ObjectId]`
- **Success Response:** `200 OK`

json

```
{
  "success": true,
  "data": {
    "match": {
      "id": "60a8b9b3e6d8a42a1c8b7890",
      "name": "MI vs RCB",
      "overs": 20,
      "currentInnings": 1,
      "status": "live"
    },
    "battingTeam": {
      "id": "60a8b9b3e6d8a42a1c8b1234",
      "name": "Royal Challengers Bangalore",
      "score": {
        "runs": 4,
        "wickets": 1,
        "overs": 0,
        "balls": 2
      },
      "extras": {
        "wide": 0,
        "noBall": 0,
        "bye": 0,
        "legBye": 0,
        "total": 0
      }
    },
    "bowlingTeam": {
      "id": "60a8b9b3e6d8a42a1c8b4567",
      "name": "Mumbai Indians"
    },
    "currentOver": 0,
    "currentBall": 2,
    "currentBatsmen": [
      {
        "id": "60a8b9b3e6d8a42a1c8b4570",
        "name": "Faf du Plessis",
        "stats": {
          "runs": 0,
          "balls": 0,
          "fours": 0,
          "sixes": 0
        }
      },
      {
        "id": "60a8b9b3e6d8a42a1c8b4572",
```

```
    "name": "Glenn Maxwell",
    "stats": {
      "runs": 0,
      "balls": 0,
      "fours": 0,
      "sixes": 0
    }
  },
],
"currentBowler": {
  "id": "60a8b9b3e6d8a42a1c8b4569",
  "name": "Jasprit Bumrah",
  "stats": {
    "overs": 0,
    "balls": 2,
    "runs": 4,
    "wickets": 1,
    "maidens": 0
  }
},
"partnership": {
  "runs": 0,
  "balls": 0
},
"recentDeliveries": [
  {
    "ball": 1,
    "type": "normal",
    "runs": 4,
    "extras": null,
    "wicket": null
  },
  {
    "ball": 2,
    "type": "normal",
    "runs": 0,
    "extras": null,
    "wicket": {
      "type": "caught",
      "player": "60a8b9b3e6d8a42a1c8b4568",
      "fielder": "60a8b9b3e6d8a42a1c8b4571"
    }
  }
]
}
```

Update Batting Order

- **URL:** `/scores/batting-order`
- **Method:** `POST`
- **Request Body:**

json

```
{  
  "matchId": "60a8b9b3e6d8a42a1c8b7890",  
  "teamId": "60a8b9b3e6d8a42a1c8b1234",  
  "battingOrder": [  
    "60a8b9b3e6d8a42a1c8b
```