



# Devops Assignment

Group 6

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# Project Details

Title : **IPL Dashboard**

Description :

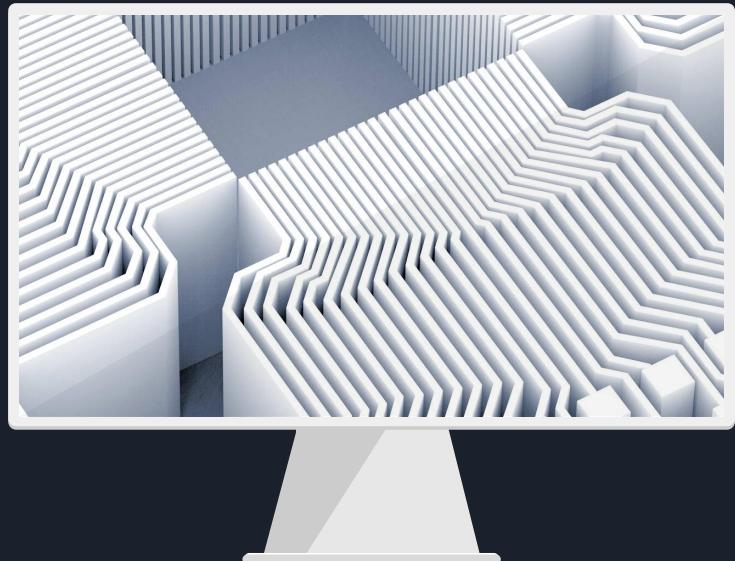
The Dashboard provides the feature to browse any IPL team and get the access to their History of the games played.

It also displays the number of games played, the history of wins and losses ratios and the tournament year.

# Tools used

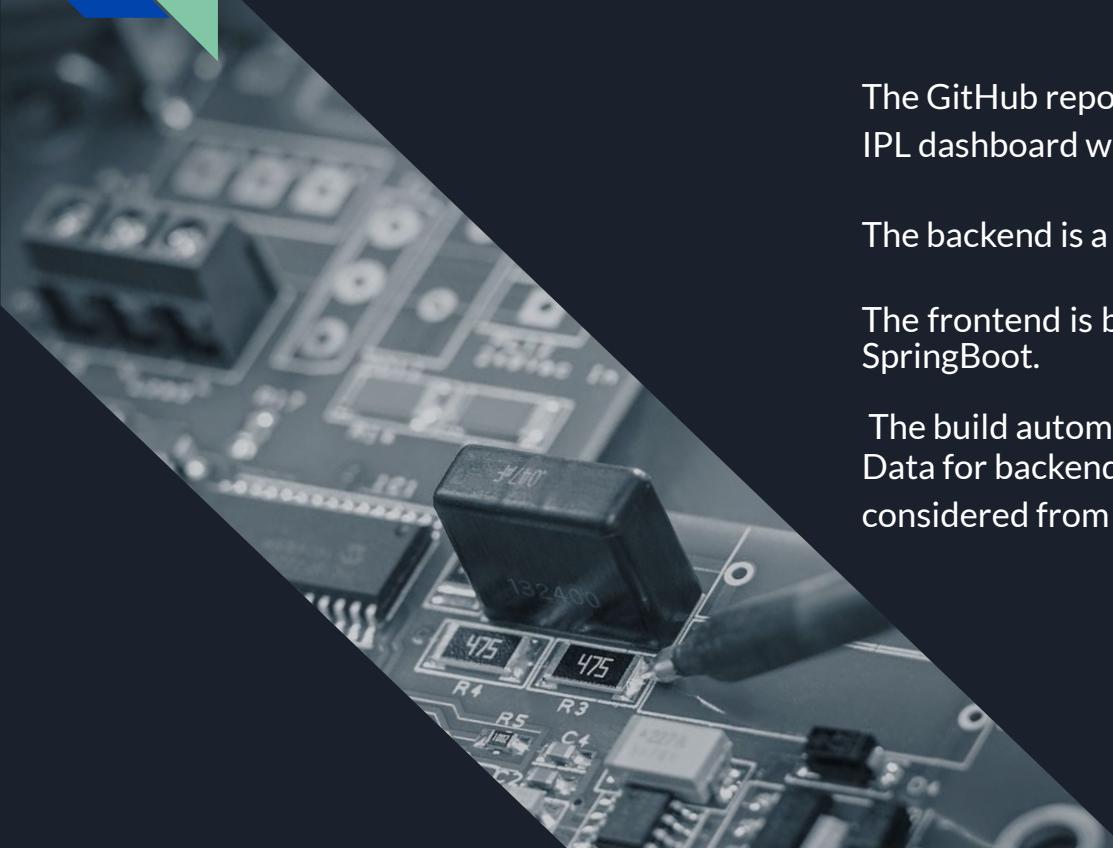
Devops Tools used in the completion of the project

- |                       |                              |
|-----------------------|------------------------------|
| <b>1. GitHub</b>      | Source code management       |
| <b>2. Maven</b>       | Building                     |
| <b>3. Junit</b>       | Testing                      |
| <b>4. Jenkins</b>     | Automation                   |
| <b>5. SonarQube</b>   | Code Analysis                |
| <b>6. IntelliJ/VS</b> | IDE                          |
| <b>7. Chrome</b>      | Web Browser                  |
| <b>8. ELK</b>         | Collect logs, show dashboard |





# Project structure



The GitHub repo contains of the front-end and backend code for IPL dashboard written in React Js.

The backend is a Maven spring boot project.

The frontend is built on ReactJs and the backend runs on Java - SpringBoot.

The build automation is done using Jenkins.  
Data for backend is taken from Kaggle (data of IPL games is considered from year 2008 to 2020 ).



# Screenshots

# Source Code Management

Tool used : GitHub ([Project link](#)).

The screenshot shows a GitHub repository page for the user 'Harshitha-18' named 'Devops'. The repository is private. At the top, there's a search bar, navigation links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore', and a user profile icon. Below the header, the repository name 'Harshitha-18 / Devops' is displayed along with its status as 'Private'. To the right are buttons for 'Watch' (with 1 watch), 'Star' (0 stars), and 'Fork' (0 forks). The main content area shows the 'Code' tab selected, with a dropdown showing 'master'. It lists 2 branches and 0 tags. The commit history shows several pushes from a user named 'remyaravindran8' with the message 'Merge pull request #2 from Harshitha-18/Remya/UnitTests ...'. The commits are dated 'yesterday' and '12 days ago'. The commit details show files like '.mvn/wrapper', 'README', 'src', '.gitignore', 'README.md', 'manifest.yml', 'mvnw', 'mvnw.cmd', and 'pom.xml' with their respective actions ('Push1' or 'Unit Tests added') and dates ('12 days ago', '8 days ago', or 'yesterday'). To the right of the code area, there are sections for 'About' (no description, website, or topics provided), 'Readme' (link), 'Releases' (no releases published, create a new release), and 'Packages' (no packages published, publish your first package). A 'Contributors' section is partially visible at the bottom.

Harshitha-18 / Devops Private

Code Issues Pull requests Actions Projects Security Insights

master ▾ 2 branches 0 tags

Go to file Add file ▾ Code ▾

remyaravindran8 Merge pull request #2 from Harshitha-18/Remya/UnitTests ... cce6b76 yesterday 5 commits

File	Commit Message	Date
.mvn/wrapper	Push1	12 days ago
README	Push1	12 days ago
src	Unit Tests added	8 days ago
.gitignore	Push1	12 days ago
README.md	Push1	12 days ago
manifest.yml	manifest.yaml added	yesterday
mvnw	Push1	12 days ago
mvnw.cmd	Push1	12 days ago
pom.xml	Unit Tests added	8 days ago

About

No description, website, or topics provided.

Readme

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Contributors

## Development

Tools used : Visual Studio for ReactJs and IntelliJ Idea for SpringBoot

The screenshot shows the IntelliJ IDEA interface with the following details:

- Title Bar:** pom.xml – ipl-dashboard-master
- Toolbars:** Standard Java IDE toolbar.
- Left Sidebar (EXPLORER):**
  - IPL-DASHBOARD-MASTER (Project Root)
  - .mvn
  - README
  - src
    - frontend
    - main
      - java io/javabrainz/ipldas...
    - config
      - SeleniumConfig.java (marked with a red error icon)
    - controller
      - TeamController.java (marked with a red error icon)
    - data
    - model
    - repository
    - IplDashboardApplication.java (marked with a red error icon)
    - resources
  - target
    - classes
    - generated-sources
    - generated-test-sources
    - maven-archiver
    - maven-status
    - surefire-reports
    - test-classes
    - ipl-dashboard-0.0.1-SNAPSHOT.jar
    - ipl-dashboard-0.0.1-SNAPSHOT.j...
  - .gitignore
  - mvnw
  - mvnw.cmd
  - pom.xml (selected tab, marked with a yellow info icon)
  - README.md
- Central Area:** Content pane displaying the XML code of the pom.xml file.
- Right Sidebar:** Standard Java IDE sidebar with tabs for Outline, Timeline, XML Document, Java Projects, and Maven.

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.4.4</version>
    <relativePath/>
      <!-- lookup parent from repository -->
  </parent>
  <groupId>io.javabrainz</groupId>
  <artifactId>ipl-dashboard</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>ipl-dashboard</name>
  <description>Demo project for Spring Boot</description>
  <properties>
    <java.version>11</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-batch</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jpa</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-devtools</artifactId>
      <scope>runtime</scope>
      <optional>true</optional>
    </dependency>
    <dependency>
      <groupId>org.hsqldb</groupId>
      <artifactId>hsqldb</artifactId>
      <scope>runtime</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-test</artifactId>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

## Run: mvn clean install for creating the .jar file

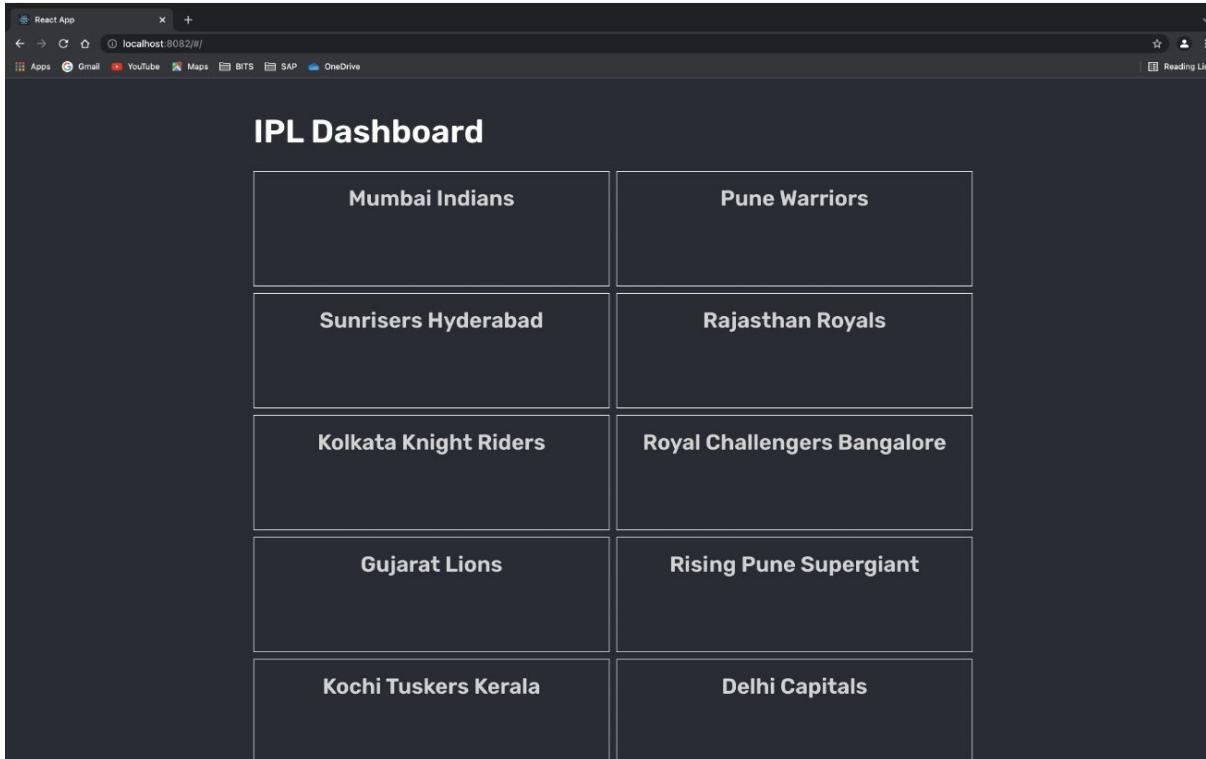
```
2021-10-19 17:37:15.276  INFO 12493 --- [           main] o.s.b.c.l.support.SimpleJobLauncher      : Job: [FLOWJOB: {name=importOSSJob}] completed with the following parameters: [runId=1] and the following status: SUCCESS
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 3.856 s - in io.javabrainz.ipldashboard.IplDashboardApplicationTests
[INFO] Running io.javabrainz.ipldashboard.model.MatchTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.model.MatchTest
[INFO] Running io.javabrainz.ipldashboard.model.TeamTest
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.model.TeamTest
[INFO] Running io.javabrainz.ipldashboard.data.JobCompletionNotificationListenerTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.data.JobCompletionNotificationListenerTest
[INFO] Running io.javabrainz.ipldashboard.data.MatchDataProcessorTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.data.MatchDataProcessorTest
[INFO] Running io.javabrainz.ipldashboard.data.BatchConfigTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.data.BatchConfigTest
[INFO] Running io.javabrainz.ipldashboard.data.MatchInputTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in io.javabrainz.ipldashboard.data.MatchInputTest
2021-10-19 17:37:15.322 INFO 12493 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
2021-10-19 17:37:15.323 INFO 12493 --- [extShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2021-10-19 17:37:15.323 INFO 12493 --- [extShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down
2021-10-19 17:37:15.325 INFO 12493 --- [extShutdownHook] com.zaxxer.hikari.HikariDataSource      : HikariPool-1 - Shutdown initiated...
2021-10-19 17:37:15.327 INFO 12493 --- [extShutdownHook] com.zaxxer.hikari.HikariDataSource      : HikariPool-1 - Shutdown completed.
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 15, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ ipl-dashboard ---
[INFO] Building jar: /Users/I524902/Devops/target/ipl-dashboard-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.4.4:repackage (repackage) @ ipl-dashboard ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ ipl-dashboard ---
[INFO] Installing /Users/I524902/Devops/target/ipl-dashboard-0.0.1-SNAPSHOT.jar to /Users/I524902/.m2/repository/io/javabrainz/ipl-dashboard/0.0.1-SNAPSHOT/ipl-dashboard-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/I524902/Devops/pom.xml to /Users/I524902/.m2/repository/io/javabrainz/ipl-dashboard/0.0.1-SNAPSHOT/ipl-dashboard-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 10.418 s
[INFO] Finished at: 2021-10-19T17:37:16+05:30
[INFO]
```

Then run mvn spring-boot:run to deploy the project locally

```
Devtools)
2021-10-19 17:39:40.969 INFO 12587 --- [ restartedMain] i.j.i.IplDashboardApplication          : No active profile set, falling back to default profiles: default
2021-10-19 17:39:41.008 INFO 12587 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to disable
2021-10-19 17:39:41.008 INFO 12587 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to 'DEBUG'
2021-10-19 17:39:41.467 INFO 12587 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2021-10-19 17:39:41.588 INFO 12587 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 35 ms. Found 2 JPA repository interfaces.
2021-10-19 17:39:41.608 INFO 12587 --- [ restartedMain] o.s.b.a.e.ServletRepositoryScanner      : Schema initialized with port(s): 8080 (http)
2021-10-19 17:39:42.087 INFO 12587 --- [ restartedMain] o.s.b.a.e.ServletRepositoryScanner      : Starting service [Tomcat]
2021-10-19 17:39:42.087 INFO 12587 --- [ restartedMain] o.s.b.a.e.ServletRepositoryScanner      : Starting Servlet engine: [Apache Tomcat/9.0.44]
2021-10-19 17:39:42.095 INFO 12587 --- [ restartedMain] o.s.c.c.c.Tomcat@{:}                   : Initializing Spring embedded WebApplicationContext
2021-10-19 17:39:42.231 INFO 12587 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource   : Root WebApplicationContext initialization completed in 1087 ms
2021-10-19 17:39:42.231 INFO 12587 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource   : HikariPool-1 - Starting...
2021-10-19 17:39:42.231 INFO 12587 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource   : HikariPool-1 - Start completed.
2021-10-19 17:39:42.231 INFO 12587 --- [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000284: Processing PersistenceUnitInfo [name: default]
2021-10-19 17:39:42.459 INFO 12587 --- [ restartedMain] org.hibernate.Version                 : HHH000412: Hibernate ORM core version 5.4.29.Final
2021-10-19 17:39:42.565 INFO 12587 --- [ restartedMain] o.hibernate.annotations.common.Version : HCCN000001: Hibernate Commons Annotations (5.1.2.Final)
2021-10-19 17:39:42.662 INFO 12587 --- [ restartedMain] org.hibernate.dialect.Dialect       : HHH000400: Using dialect org.hibernate.dialect.HSQLDialect
2021-10-19 17:39:42.662 INFO 12587 --- [ restartedMain] org.hibernate.id.IdentifierGenerator : HHH000272: IdentityGenerator implementation: org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform
2021-10-19 17:39:42.662 INFO 12587 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer     : Initialized JPA EntitymanagerFactory for persistence unit 'default'
2021-10-19 17:39:42.662 INFO 12587 --- [ restartedMain] LiveReload server is running on port 35729
2021-10-19 17:39:43.498 WARN 12587 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : LiveReload server is running on port 35729
2021-10-19 17:39:43.498 WARN 12587 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2021-10-19 17:39:43.568 INFO 12587 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2021-10-19 17:39:43.631 INFO 12587 --- [ restartedMain] o.s.b.a.welcomePageHandlerMapping      : Adding welcome page: class path resource [META-INF/index.html]
2021-10-19 17:39:43.691 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobRepositoryFactoryBean      : JobRepository initialized successfully, but it is not recommended to use it as it may not be taken when launching Jobs
2021-10-19 17:39:43.694 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobRepositoryFactoryBean      : No database type set, using hibernate dialect: MySQL
2021-10-19 17:39:43.694 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobLauncher                  : No TaskExecutor has been set, defaulting to synchronous executor.
2021-10-19 17:39:43.792 INFO 12587 --- [ restartedMain] o.s.b.a.b.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 [http] with context path ''
2021-10-19 17:39:43.889 INFO 12587 --- [ restartedMain] i.j.i.IplDashboardApplication          : Started IplDashboardApplication in 3.052 seconds (JVM running for 3.389)
2021-10-19 17:39:43.889 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobLauncherApplicationRunner : Running default command line with: []
2021-10-19 17:39:43.889 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobLauncherApplicationRunner : [Job{id=1, jobName=IPL, trigger=SimpleTrigger, cron=*, step=1}] launched with the following parameters: {[run.id=1]}
2021-10-19 17:39:43.889 INFO 12587 --- [ restartedMain] o.s.b.a.b.JobLauncherApplicationRunner : Executing step: [step1]
2021-10-19 17:39:44.173 INFO 12587 --- [ restartedMain] o.s.b.a.b.step.AbstractStep            : Step: [step1] executed in 389ms
2021-10-19 17:39:44.176 INFO 12587 --- [ restartedMain] i.j.i.JobCompletionNotificationListener : !!! JOB FINISHED! Time to verify the results
Team [teamName=Mumbai Indians, totalMatches=203, totalWins=120]
Team [teamName=Power Warriors, totalMatches=46, totalWins=12]
Team [teamName=Sunrisers Hyderabad, totalMatches=124, totalWins=66]
Team [teamName=Delhi Capitals, totalMatches=161, totalWins=81]
Team [teamName=Rajasthan Royals, totalMatches=161, totalWins=81]
Team [teamName=Kolkata Knight Riders, totalMatches=192, totalWins=99]
Team [teamName=Royal Challengers Bangalore, totalMatches=195, totalWins=91]
Team [teamName=Gujarat Lions, totalMatches=30, totalWins=13]
Team [teamName=Rising Pune Supergiant, totalMatches=16, totalWins=10]
Team [teamName=Kings XI Punjab, totalMatches=104, totalWins=56]
Team [teamName=Chennai Super Kings, totalMatches=94, totalWins=48]
Team [teamName=Deccan Chargers, totalMatches=75, totalWins=29]
Team [teamName=Rising Pune Supergiants, totalMatches=14, totalWins=5]
Team [teamName=Chennai Super Kings, totalMatches=178, totalWins=106]
2021-10-19 17:39:44.213 INFO 12587 --- [ restartedMain] o.s.b.c.l.support.SimpleJobLauncher    : Job: [(#job: [name=importUserJob]) completed with the following parameters: {[run.id=1]} and the following status: [COMPLETED] in 320ms
2021-10-19 17:42:56.000 INFO 12587 --- [ restartedMain] o.s.b.a.e.ServletDispatcherServlet      : Initializing Spring DispatcherServlet 'dispatcherServlet'
2021-10-19 17:42:56.000 INFO 12587 --- [ restartedMain] o.s.web.servlet.DispatcherServlet      : Initializing Servlet 'dispatcherServlet'
2021-10-19 17:42:56.174 INFO 12587 --- [ restartedMain] o.s.b.a.e.ServletDispatcherServlet      : Completed initialization in 1 ms
*2021-10-19 17:45:16.912 INFO 12587 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
2021-10-19 17:45:16.913 INFO 12587 --- [extShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2021-10-19 17:45:16.913 INFO 12587 --- [extShutdownHook] com.zaxxer.hikari.HikariDataSource   : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down'
2021-10-19 17:45:16.921 INFO 12587 --- [extShutdownHook] com.zaxxer.hikari.HikariDataSource   : HikariPool-1 - Shutdown initiated...
2021-10-19 17:45:16.921 INFO 12587 --- [extShutdownHook] com.zaxxer.hikari.HikariDataSource   : HikariPool-1 - Shutdown completed.

[INFO] _____
[INFO] BUILD SUCCESS
[INFO] _____
[INFO] Total time: 00:38 min
[INFO] Finished at: 2021-10-19T17:45:17+05:30
[INFO] _____
```

View the application running on localhost:8082



Project running on port 8082

React App

localhost:8082/#/teams/Sunrisers%20Hyderabad

Apps Gmail YouTube Maps BITS SAP OneDrive

Reading List

# Sunrisers Hyderabad

**Latest Matches**

vs **Delhi Capitals**  
2020-11-08  
at Sheikh Zayed Stadium  
Delhi Capitals won by 17 runs

**First Innings**  
Delhi Capitals

**Second Innings**  
Sunrisers Hyderabad

**Man of the match**  
MP Stoinis

**Umpires**  
PR Reiffel, S Ravi

More >

vs **Royal Challengers Bangalore**  
Sunrisers Hyderabad won by 6 wickets

vs **Mumbai Indians**  
Sunrisers Hyderabad won by 10 wickets

vs **Royal Challengers Bangalore**  
Sunrisers Hyderabad won by 5 wickets

**Wins / Losses**



# Project running on port 8082

The screenshot shows a web application titled "Sunrisers Hyderabad matches in 2020". On the left, there is a sidebar with a "Select Year" dropdown menu containing years from 2008 to 2020. The main content area displays four match cards, each with a red header and a green body.

**Match 1:** vs **Delhi Capitals**  
2020-11-08 at Sheikh Zayed Stadium  
Delhi Capitals won by 17 runs

**First Innings:** Delhi Capitals  
**Second Innings:** Sunrisers Hyderabad  
**Man of the match:** MP Stoinis  
**Umpires:** PR Reiffel, S Ravi

**Match 2:** vs **Royal Challengers Bangalore**  
2020-11-06 at Sheikh Zayed Stadium  
Sunrisers Hyderabad won by 6 wickets

**First Innings:** Royal Challengers Bangalore  
**Second Innings:** Sunrisers Hyderabad  
**Man of the match:** KS Williamson  
**Umpires:** PR Reiffel, S Ravi

**Match 3:** vs **Mumbai Indians**  
2020-11-03 at Sharjah Cricket Stadium  
Sunrisers Hyderabad won by 10 wickets

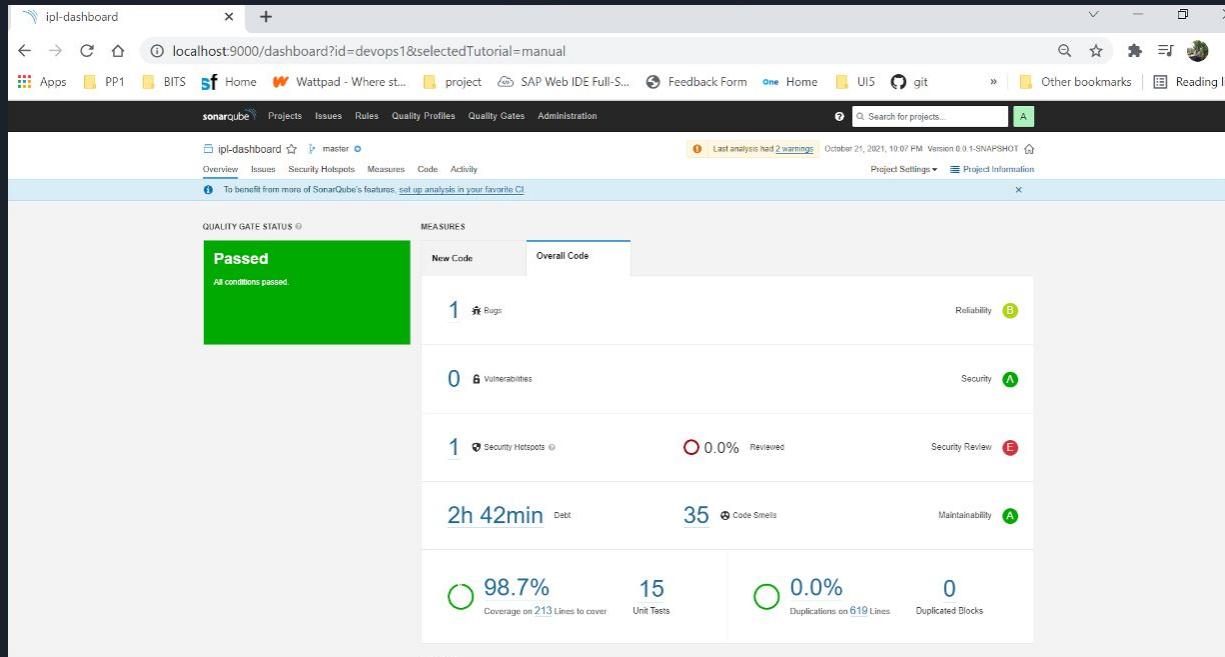
**First Innings:** Mumbai Indians  
**Second Innings:** Sunrisers Hyderabad  
**Man of the match:** S Nadeem  
**Umpires:** C Shamshuddin, RK Illingworth

**Match 4:** vs **Royal Challengers Bangalore**

**First Innings:** Royal Challengers Bangalore

# Code Analysis

Tool Used: SonarQube



# Sonarqube- Code Smells

The screenshot shows the Sonarqube interface with the following details:

- URL:** localhost:9000/project/issues?id=devops1&resolved=false
- Project:** ipl-dashboard (master branch)
- Last Analysis:** October 21, 2021, 10:07 PM Version 0.0.1-SNAPSHOT
- Issues:** 1 / 36 issues (2h 47min effort)
- Filters:** My Issues, All
- Type:** Bug (1), Vulnerability (0), Code Smell (35)
- Severity:** Blocker (1), Critical (2), Major (4), Minor (29), Info (0)
- Scope:** Resolution, Status, Security Category, Creation Date, Language, Rule, Tag, Directory, File, Assignee, Author
- Issues List:** The list displays 14 code smell issues across two files:

  - src/.../javabrainspidashboard/data/BatchConfig.java:**
    - Rename this field "FIELD\_NAMES" to match the regular expression "[a-zA-Z][a-zA-Z0-9]\*\$". Why is this an issue? (Code Smell, Minor, Open, Not assigned, 2min effort, Comment)
    - Inject this field value directly into "importUserJob", the only method that uses it. Why is this an issue? (Code Smell, Critical, Open, Not assigned, 5min effort, Comment)
    - Inject this field value directly into "step1", the only method that uses it. Why is this an issue? (Code Smell, Critical, Open, Not assigned, 5min effort, Comment)
    - Use another way to initialize this instance. Why is this an issue? (Bug, Minor, Open, Not assigned, 5min effort, Comment)
    - Move the contents of this initializer to a standard constructor or to field initializers. Why is this an issue? (Code Smell, Major, Open, Not assigned, 30min effort, Comment)
  - src/.../javabrainspidashboard/data/JobCompletionNotificationListener.java:**
    - Remove this unused import "org.springframework.jdbc.core.JdbcTemplate". Why is this an issue? (Code Smell, Minor, Open, Not assigned, 2min effort, Comment)
    - Remove this unnecessary cast to "String". Why is this an issue? (Code Smell, Minor, Open, Not assigned, 5min effort, Comment)
    - Remove this unnecessary cast to "String". Why is this an issue? (Code Smell, Minor, Open, Not assigned, 5min effort, Comment)
    - Replace this lambda with method reference "em::persist". Why is this an issue? (Code Smell, Minor, Open, Not assigned, 2min effort, Comment)

# Build on CI/CD

The screenshot shows a Jenkins build summary for build #21, which was triggered on Jan 12, 2022, at 10:52:13 AM. The build status is green with a checkmark icon. The summary includes details such as changes made to the Jenkinsfile, the SCM change that triggered the build, the git revision, and the repository URL. The Jenkins interface features a sidebar with various build-related links like Back to Project, Status, Changes, and Console Output.

Build #21 (Jan 12, 2022 10:52:13 AM)

Changes

- 1. Update jenkinsfile (commit: 1d33a5c) ([details](#) / [githubweb](#))

Started by an SCM change

Revision: 1d33a5c29328b0aca207eeba3d596a9286f62d20  
Repository: <https://github.com/Harshitha-18/Devops>

refs/remotes/origin/master

Keep this build forever

Started 2 hr 48 min ago  
Took 9 sec

REST API Jenkins 2.319.1

# Jenkins Pipeline

Ipl-dashboard project [Jenkins] +  
localhost:8090/job/Ipl-dashboard%20project/

Jenkins

Dashboard > Ipl-dashboard project >

Back to Dashboard Status Changes Build Now Configure Delete Pipeline Full Stage View GitHub Rename Pipeline Syntax Git Polling Log Build History trend ▲ Filter builds... Permalinks

Recent Changes

## Pipeline Ipl-dashboard project

Add description Disable Project

### Stage View

Average stage times:  
(Average full run time: ~5min 58s)

Declarative: Checkout SCM	clean stage	validate stage	compile stage	Testing stage	Deploy stage
5min 45s	401ms	247ms	243ms	260ms	264ms
#4 Jan 11 18:41 1 commit	6min 14s	388ms	238ms	250ms	308ms
#3 Jan 11 18:40 1 commit	5min 17s	415ms	257ms	236ms	213ms

# Application deployed in BTP

SAP BTP Cockpit

42 Remya ?

Applications Services Instances SAP HANA Cloud SAP HANA Cloud Migrations Routes Security Groups Events Members

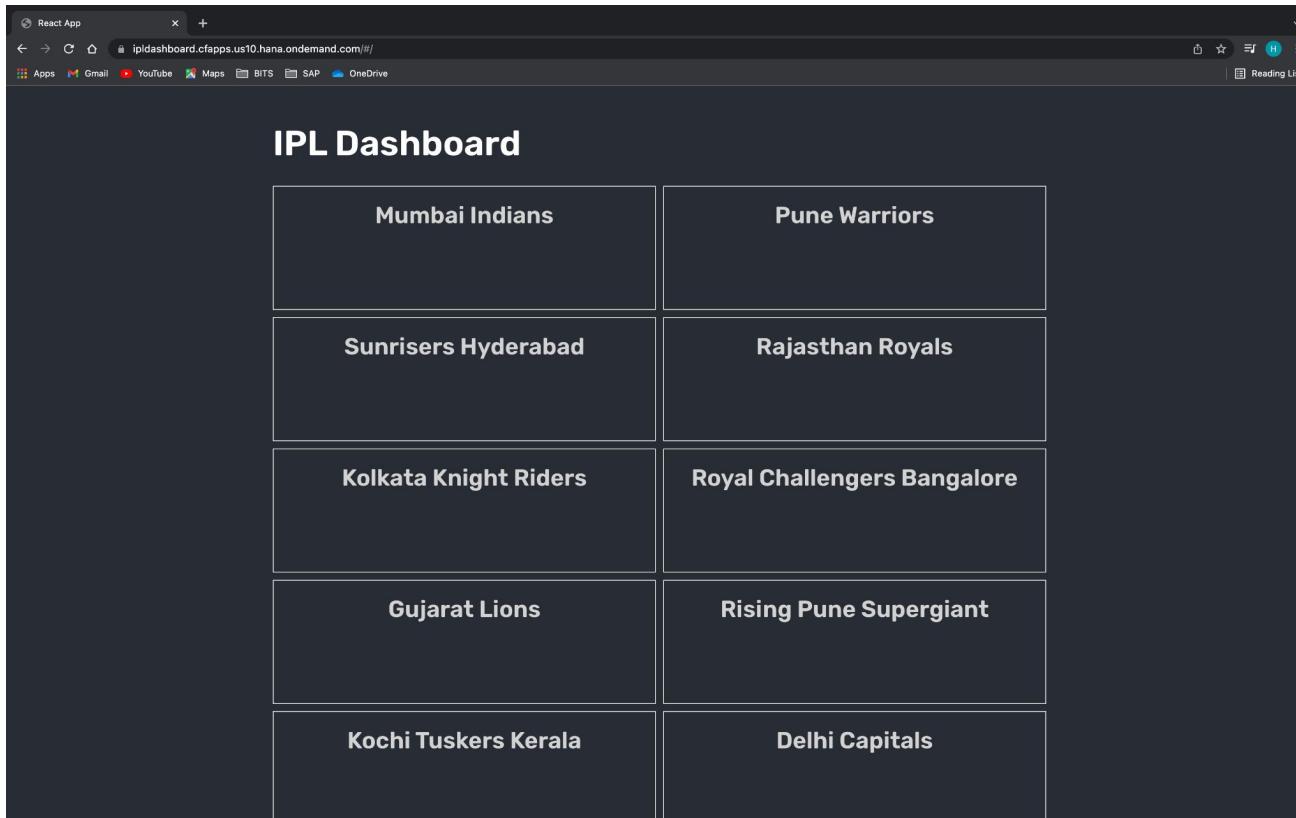
Trial Home / 399fe378trial / trial / dev

Space: dev - Applications All: 1

Deploy Application Search

Requested State	Name	Instances	Disk Quota	Memory	Actions
Started	ipl_dashboard	1/1	1024 MB	2048 MB	

# Application deployed in BTP



# Application deployed in BTP

The screenshot shows a web application interface for an IPL team, Mumbai Indians. The top navigation bar includes links for 'React App', 'ipldashboard.cfapps.us10.hana.ondemand.com', and a 'Reading List' icon. The main content area features a dark background with light-colored text and graphics.

**Mumbai Indians**

**Latest Matches**

vs **Delhi Capitals**  
2020-11-10  
at Dubai International Cricket Stadium  
Mumbai Indians won by 5 wickets

**Wins / Losses**

A pie chart titled "Wins / Losses" is displayed, divided into two segments: green (representing wins) and red (representing losses).

**First Innings**  
Delhi Capitals

**Second Innings**  
Mumbai Indians

**Man of the match**  
TA Boul

**Umpires**  
CB Gaffaney, Nitin Menon

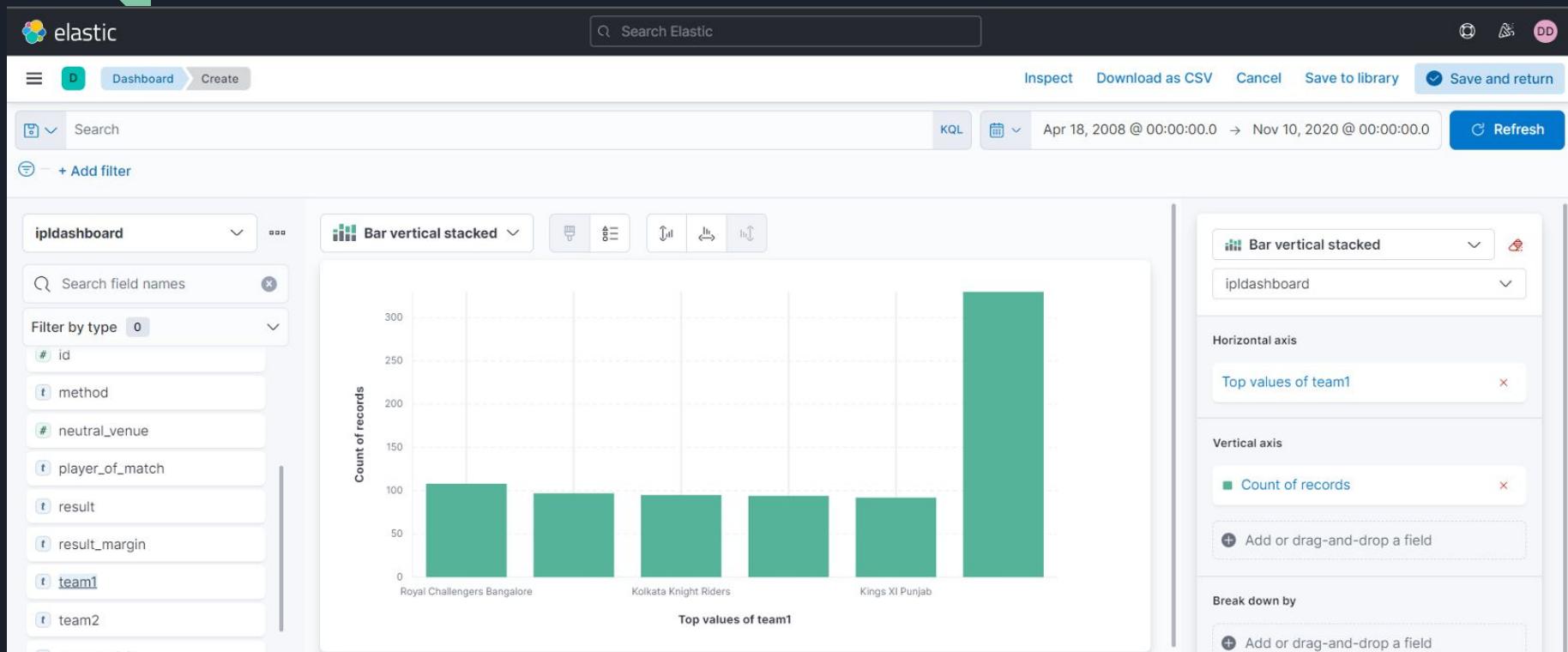
**More >**

Below the main content, there are three smaller cards representing recent matches:

- vs **Delhi Capitals**  
Mumbai Indians won by 57 runs
- vs **Sunrisers Hyderabad**  
Sunrisers Hyderabad won by 10 wickets
- vs **Delhi Capitals**  
Mumbai Indians won by 9 wickets

# ELK Stack

Dashboard and Logs ([LINK](#))



## Dashboard and Logs ([LINK](#))

elastic

Search Elastic

Discover

Options New Open Share Inspect Save

Search KQL Apr 18, 2008 @ 00:00:00.0 → Nov 10, 2020 @ 00:00:00.0 Refresh

+ Add filter

ipldashboard

816 hits

Chart options

Search field names

Filter by type 0

Available fields 22

\_id  
\_index  
\_score  
\_type  
@timestamp  
city  
date  
eliminator

Time ↓ Document

> Nov 10, 2020 @ 00:00:00.000

```
@timestamp: Nov 10, 2020 @ 00:00:00.000 city: Dubai date: Nov 10, 2020 @ 05:30:00.000
eliminator: N id: 1,237,181 method: NA neutral_venue: 0 player_of_match: TA Boult
result: wickets result_margin: 5 team1: Delhi Capitals team2: Mumbai Indians
toss_decision: bat toss_winner: Delhi Capitals umpire1: CB Gaffaney umpire2: Nitin Menon
venue: Dubai International Cricket Stadium winner: Mumbai Indians
```

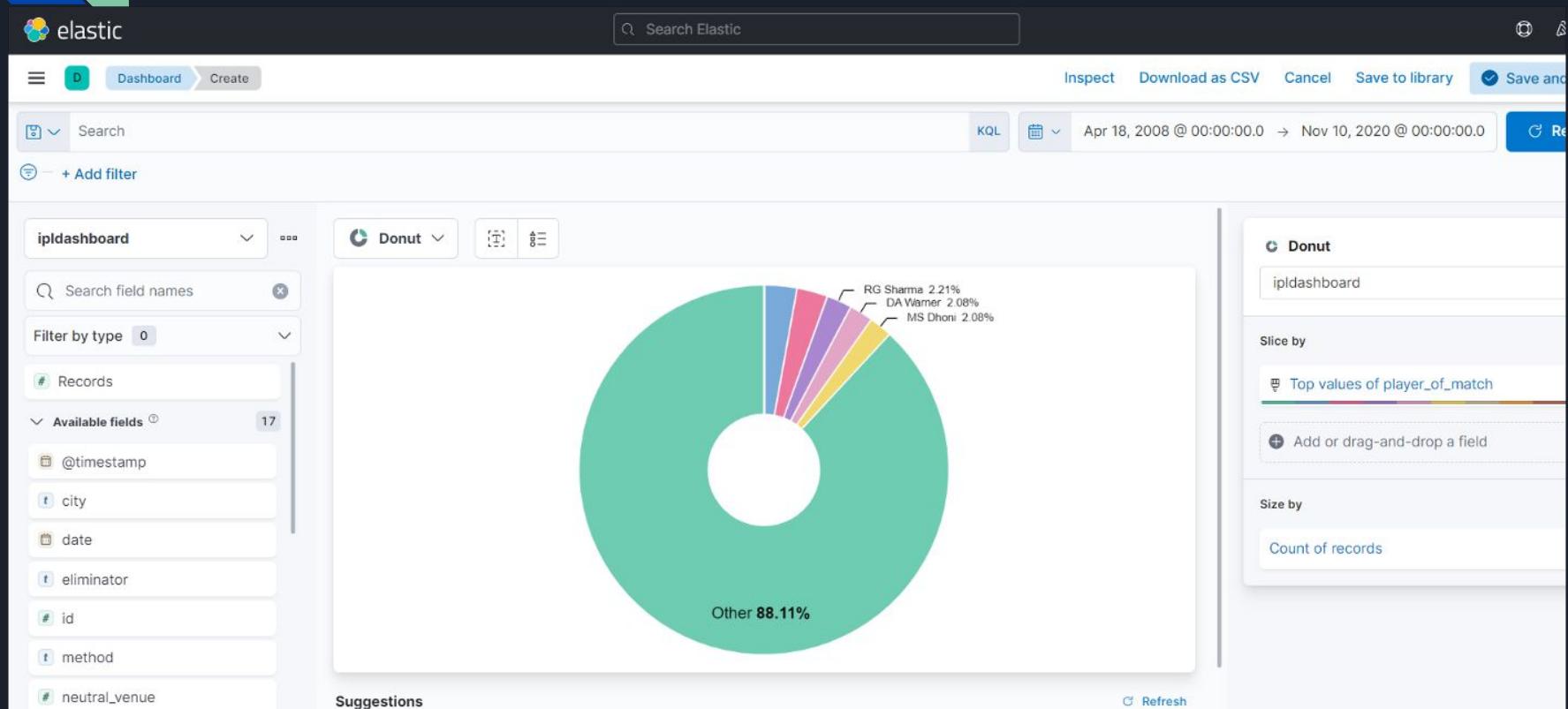
## Dashboard and Logs ([LINK](#))

Time ↓	Document
> Nov 10, 2020 @ 00:00:00.000	@timestamp: Nov 10, 2020 @ 00:00:00.000 city: Dubai date: Nov 10, 2020 @ 05:30:00.000 eliminator: N id: 1,237,181 method: NA neutral_venue: 0 player_of_match: TA Boult result: wickets result_margin: 5 team1: Delhi Capitals team2: Mumbai Indians toss_decision: bat toss_winner: Delhi Capitals umpire1: CB Gaffaney umpire2: Nitin Menon venue: Dubai International Cricket Stadium winner: Mumbai Indians _id: NT3_R34BHtp7V43kKBfB _index: ipldashboard _score: - _type: _doc
> Nov 8, 2020 @ 00:00:00.000	@timestamp: Nov 8, 2020 @ 00:00:00.000 city: Abu Dhabi date: Nov 8, 2020 @ 05:30:00.000 eliminator: N id: 1,237,180 method: NA neutral_venue: 0 player_of_match: MP Stoinis result: runs result_margin: 17 team1: Delhi Capitals team2: Sunrisers Hyderabad toss_decision: bat toss_winner: Delhi Capitals umpire1: PR Reiffel umpire2: S Ravi venue: Sheikh Zayed Stadium winner: Delhi Capitals _id: ND3_R34BHtp7V43kKBfB _index: ipldashboard _score: - _type: _doc
> Nov 6, 2020 @ 00:00:00.000	@timestamp: Nov 6, 2020 @ 00:00:00.000 city: Abu Dhabi date: Nov 6, 2020 @ 05:30:00.000 eliminator: N id: 1,237,178 method: NA neutral_venue: 0 player_of_match: KS Williamson result: wickets result_margin: 6 team1: Royal Challengers Bangalore team2: Sunrisers Hyderabad toss_decision: field toss_winner: Sunrisers Hyderabad umpire1: PR Reiffel umpire2: S Ravi venue: Sheikh Zayed Stadium winner: Sunrisers Hyderabad _id: Mz3_R34BHtp7V43kKBfB _index: ipldashboard _score: - _type: _doc
> Nov 5, 2020 @ 00:00:00.000	@timestamp: Nov 5, 2020 @ 00:00:00.000 city: Dubai date: Nov 5, 2020 @ 05:30:00.000 eliminator: N id: 1,237,177 method: NA neutral_venue: 0 player_of_match: JJ Bumrah result: runs result_margin: 57 team1: Mumbai Indians team2: Delhi Capitals toss_decision: field toss_winner: Delhi Capitals umpire1: CB Gaffaney umpire2: Nitin Menon venue: Dubai International Cricket Stadium winner: Mumbai Indians _id: Mj3_R34BHtp7V43kKBfB _index: ipldashboard _score: - _type: _doc
> Nov 3, 2020 @ 00:00:00.000	@timestamp: Nov 3, 2020 @ 00:00:00.000 city: Sharjah date: Nov 3, 2020 @ 05:30:00.000 eliminator: N id: 1,216,495 method: NA neutral_venue: 0 player_of_match: S Nadeem result: wickets result_margin: 10 team1: Mumbai Indians team2: Sunrisers Hyderabad toss_decision: field toss_winner: Sunrisers Hyderabad umpire1: C Shamshuddin umpire2: RK

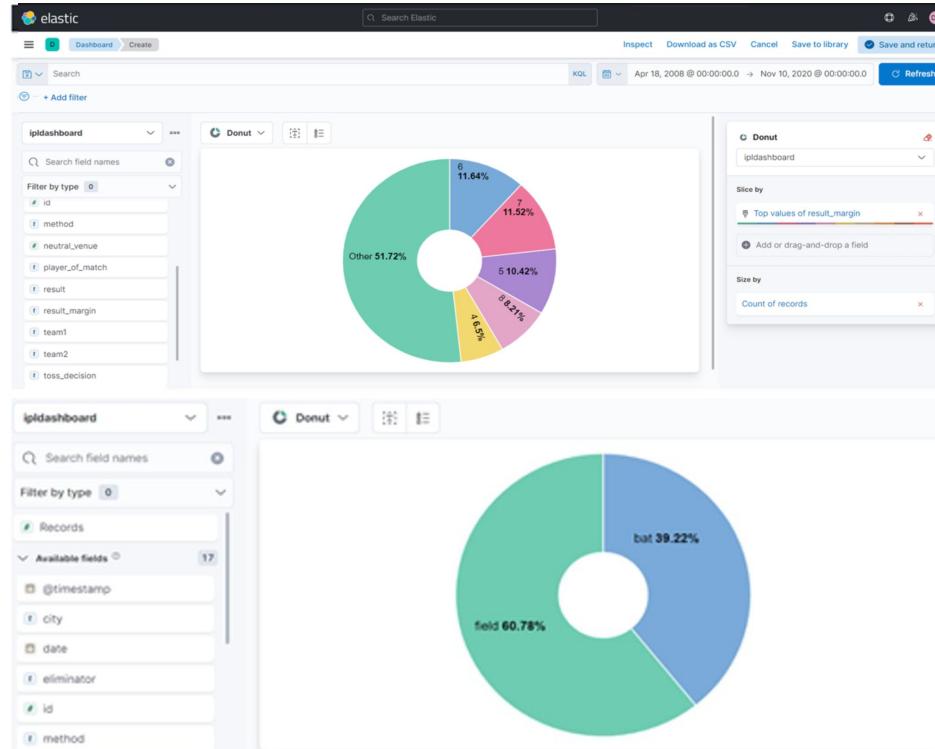
## Visualization based on different fields.

1. We can visualize the data based on any fields of our choice. For eg :-

Given below is the snapshot of 'player\_of\_match' data visualization.



## 2.Eg:- Visualization of 'result\_margin', toss\_decision data



# Elastic cloud

Cloud Deployments IplDashboard

Trial - 13 days left

elastic

aws Ireland (eu-west-1)

IplDashboard

Deployment name: IplDashboard (Edit) Deployment status: Healthy (Deployment ID: 3e0c279)

Custom endpoint alias: firstdeployment-3e0c27 (Edit) Deployment version: v7.16.2

Applications: Elasticsearch (Copy endpoint, Copy cluster ID), Kibana (Open, Copy endpoint, Copy cluster ID), APM (Open, Copy endpoint, Copy cluster ID), Fleet (Open, Copy endpoint, Copy cluster ID), Enterprise Search (Open, Copy endpoint, Copy cluster ID)

Cloud ID: IplDashboard:ZXUtd2VzdC0xLmF3cy5mb3VuZC5pbjQ4MDFjMWI4MTIx0WE0NwUyOGFiZDMyYzFjYzAyYzY3NCR1MzY3YjU2OTc3ZjE0YzQyODE5MjRjNjczYjZkNjQwNw==

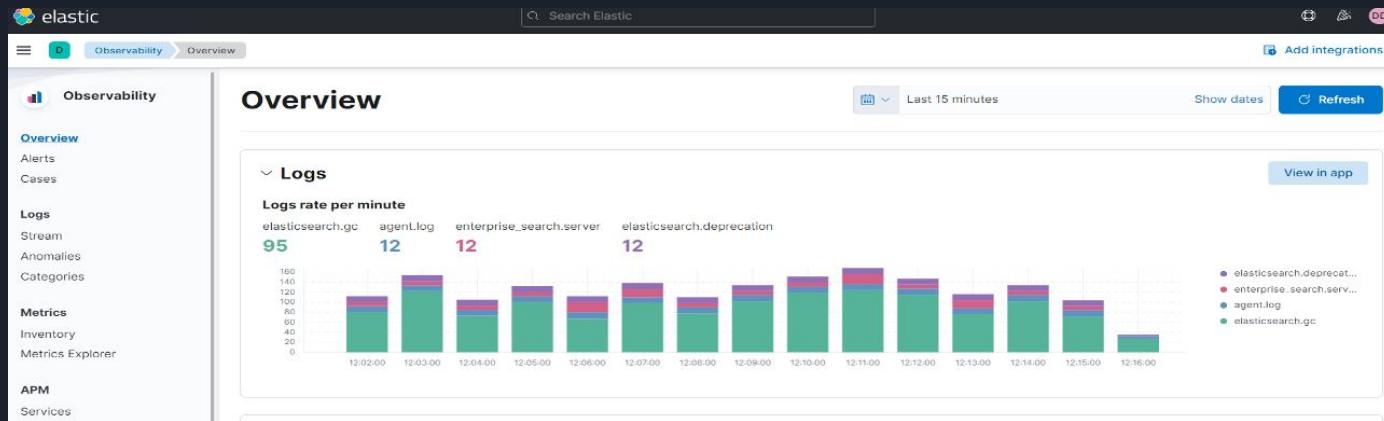
Open Kibana Manage

Deployments IplDashboard

- Edit
- Elasticsearch
  - Snapshots
  - API console
- Kibana
- APM & Fleet
- Enterprise Search
- Logs and metrics
- Activity
- Security
- Performance

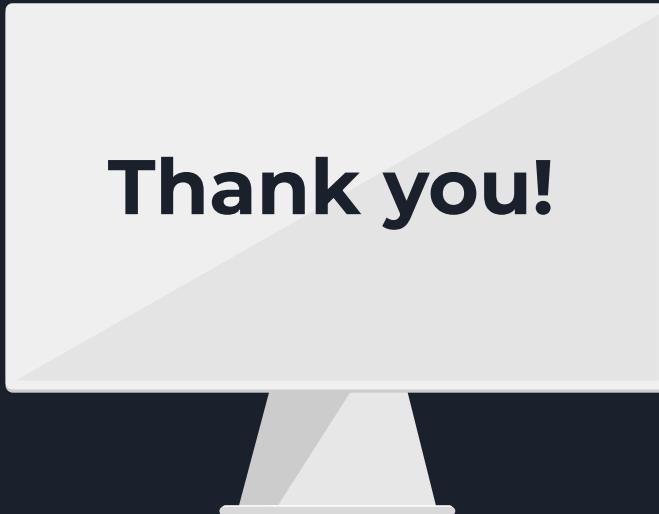
Features

Support



## Logs Stream

Stream		
<input placeholder="Search for log entries... (e.g. host.name:host-1)" type="text"/> <span>Customize</span> <span>Highlights</span>		
Jan 11, 2022	event.dataset	Message
17:41:41.728	elasticsearch.deprecation	<pre>ess to system indices will be prevented by default [elasticsearch.deprecation][WARN] this request accesses system indices: [.apm-agent-con figuration, .apm-custom-link, .async-search, .fleet-agents-7, .fleet-enrollment-api-key s-7, .fleet-policies-7, .fleet-policies-leader-7, .fleet-servers-7, .kibana_7.16.2_001, .kibana_security_session_1, .kibana_task_manager_7.16.2_001, .security-7, .security-tok ens-7, .tasks, .triggered_watches, .watches], but in a future major version, direct acc ess to system indices will be prevented by default</pre>
17:41:42.612	elasticsearch.gc	[elasticsearch.gc][INFO] Safepoint "Cleanup", Time since last: 9000879459 ns, Reaching safepoint: 88376 ns. At safepoint: 24372 ns, Total: 112748 ns
17:41:42.612	elasticsearch.gc	[elasticsearch.gc][INFO] Safepoint "Cleanup", Time since last: 9000879459 ns, Reaching safepoint: 88376 ns. At safepoint: 24372 ns, Total: 112748 ns
17:41:44.613	elasticsearch.gc	[elasticsearch.gc][INFO] Safepoint "Cleanup", Time since last: 2000221611 ns, Reaching safepoint: 103196 ns. At safepoint: 13827 ns, Total: 117023 ns
17:41:45.005	agent.log	[] [access] "GET / HTTP/1.1" 200 42
17:41:50.025	agent.log	[] [access] "GET / HTTP/1.1" 200 42



**Thank you!**