

High Level Design (HLD)

NBA DRAFT COMBINE MEASUREMENT

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Document Version Control

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Abstract

The National Basketball Association, NBA, is a professional basketball league comprised of 30 teams across North America featuring the best basketball players of the world.

Today, NBA is the most innovative league in the sports, helping drive the growth of the game around the globe. We're pioneers in using technology to deliver content to fans over all forms of media , and a leader in social responsibility and community development.

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1.Introduction

1.1 Why this High-Level Design Document?

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions prior to coding, and can be used as a reference manual for how the modules interact at a high level.

The HLD will:

- Present all of the design aspects and define them in detail
- Describe the user interface being implemented
- Describe the hardware and software interfaces
- Describe the performance requirements
- Include design features and the architecture of the project
- List and describe the non-functional attributes like:
 - Security
 - Reliability
 - Maintainability
 - Portability
 - Reusability
 - Application compatibility
 - Resource utilization
 - Serviceability

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1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

2 General Description

2.1 Product Perspective & Problem Statement

The National Basketball Association, NBA, is a professional basketball league comprised of 30 teams across North America featuring the best basketball players of the world.

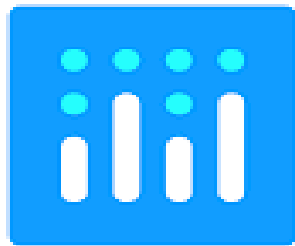
In this project we will see various aspects and qualities of NBA players(i.e, weight,height,spint,etc), and we will see what trends and relationships their qualities are following.

We will visualize their qualities using visualization tools like plotly and matplotlib.

2.2 Tools used

Business Intelligence tools and libraries works such as Numpy, Pandas and visualization tools such as Seaborn, Matplotlib, Plotly are used to build the whole framework.





plotly



seaborn



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3 Design Details

3.1 Functional Architecture

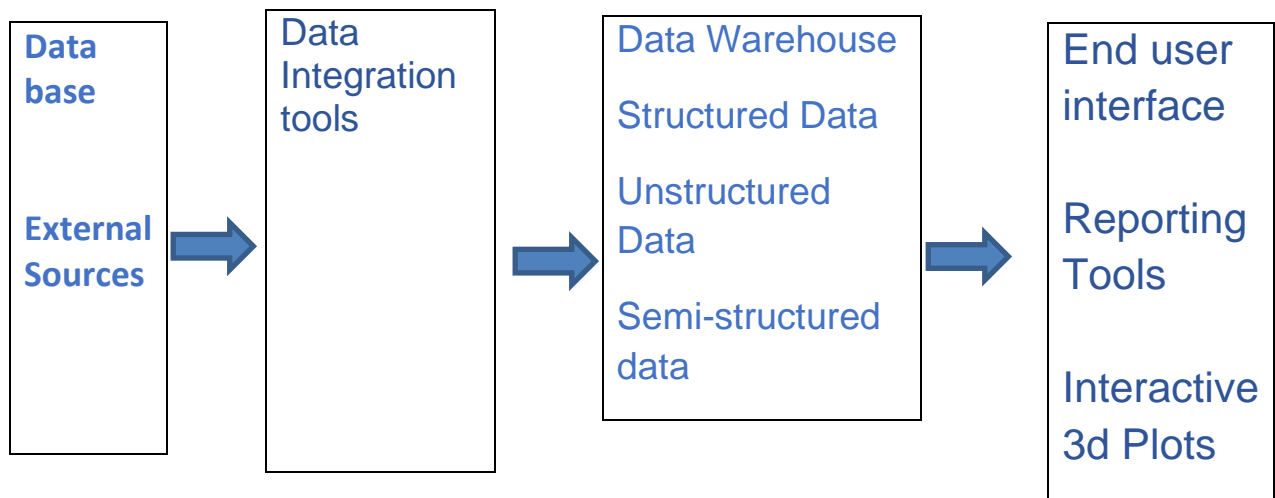


Figure 1: Functional Architecture of Business Intelligence

4 KPIs

Dashboards will be implemented to display and indicate certain KPIs and relevant indicators for the project result.



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As and when, the system starts to capture the historical/periodic data for a user, the dashboards will be included to display charts over time with progress on various indicators or factors.

4.1 KPIs (Key Performance Indicators)

Key indicators displaying a summary of the NBA DataSet and its relationship with different metrics

1. Impact of weight on sprint across the player.
2. Impact of weight on height across the player
3. Influence of height parameter on sprint.
4. Influence of height parameter on vertical(max reach)
5. Influence of height(no shoes) parameter on wingspan
6. Influence of Body fat parameter on agility

5 Final Section

Prioritizing data and analytics couldn't come at a better time. Your company, no matter what size, is already collecting data and most likely analyzing just a portion of it to solve business problems, gain competitive advantages, and drive enterprise transformation. With the explosive growth of enterprise data, database technologies, and the high demand for analytical skills, today's most effective IT organizations have shifted their focus to enabling self-service by using and operating Plotly at scale, as

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well as organizing, orchestrating, and unifying disparate sources of data for business users and experts alike to author and consume content.

Built on top of the Plotly JavaScript library , plotly enables Python users to create beautiful interactive web-based visualizations that can be displayed in Jupyter notebooks, saved to standalone HTML files, or served as part of pure Python-built web applications using Dash. The plotly Python library is sometimes referred to as "plotly.py" to differentiate it from the JavaScript library.