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|  |  | OWL Vision  By AJ Johnson |

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# Software Requirements SPecifications

A close up of an owl's face

Description automatically generated

## Owl Vision Art

\*\*AI Generated image using OpenAI’s Dalle-3 and ChatGPT

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# Introduction

# Overall Description

### User Classes and Characteristics

* **Athletic Staff**
  + Sales Team: Focus on identifying potential season ticket holders and group ticket buyers.
  + Marketing Team: Interested in identifying trends to tailor marketing campaigns.
* **Faculty**
  + Those involved in athletic programs: May need data for various planning and strategy sessions.
* **Data Analysts**
  + Internal or external analysts who need to mine the data for trends, projections, etc.
* **Administrative Staff**
  + May require access for reporting and oversight purposes.
* **IT Support**
  + Responsible for system maintenance, updates, and ensuring data integrity.

### Operating Environment

* **Server Requirements**
  + Minimum of 16GB of memory
  + Minimum 4-core CPU
  + Storage requirements will vary and are dependent on SQL database needs.
* **Client Requirements**
  + Compatible across multiple platforms including Windows and macOS.
  + No specific hardware requirements, as long as the client device can access the KSU network.

Operating Systems and Versions

* Server: Linux or Windows
* Client: Cross-platform compatibility ensured for anything with a web browser

Geographical Locations

* **Users**: Primarily located within the KSU campus, but remote access can be discussed for authorized users if needed.
* **Servers and Databases**: Hosted within KSU's secure data center.

Organizations Hosting Databases, Servers, and Websites

* All databases, servers, and application hosting will be managed by KSU's IT department.

Software Components and Interoperability

* Owl Vision must coexist peacefully with existing KSU databases and internal systems.
* Interoperability with KSU's proposed or existing secure login system, if applicable.

Data Transfer and Security

* Secure data pipelines will be established to transfer data from both internal and external sources.
* Strict standards for data transfer will be enforced to ensure the security and integrity of sensitive data.

Additional Technical Infrastructure

* If a specific secure login system is recommended by the IT department, additional resources and documentation will be required for its implementation.

Infrastructure Requirements Specification

* In case extensive infrastructure work is needed, a separate Infrastructure Requirements Specification document will be created to detail this work.

# System Features

* **Data Integration**
  + **Connect to Multiple Data Sources**: Integrate with databases like alumni records, merchandise purchase records, previous ticket buyer databases, athletics mailing list, and KSU athletic app usage data.
  + **Data Import/Export**: Import raw data in formats like CSV, JSON, and XML. Export processed data and reports in similar formats.
* **Data Preprocessing**
  + **Data Cleaning**: Automated scripts to clean and preprocess the data.
  + **Data Transformation**: Transform data into a format suitable for analysis.
* **Reporting and Visualization**
  + **Custom Reports:** Generate custom reports with charts, graphs, and tables.
  + **Export Reports:** Export these reports in PDF, Excel, or other popular formats.
* **Generate Predictions**
  + **Predict Season Ticket Holders:** System shall be able to make predictions upon present data.
  + **Filter Predictions:** Users shall be able to filter through predictions data and sort based on user’s needs.

# External Interface

#### User Interfaces

#### Hardware Interfaces

#### Software Interfaces

#### Communication Protocols and Interfaces

# Non-Functional Requirements

#### Performance Requirements

#### Safety Requirements

#### Security Requirements

#### Software Quality Attributes

# Assumptions and Dependencies

# Risk Analysis

**Hello World**

# Contact