**Requirements Management Plan**

Lively Leopards

UofL Men’s Basketball Team

**9/3/23**

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# Revisions

| Revision | Description of Change | Author | Effective Date |
| --- | --- | --- | --- |
| V1 | Draft | Lively Leopards | 09/03/23 |
| V2 |  |  |  |
|  |  |  |  |

# Introduction

The purpose of the Lively Leopards Requirements Management Plan is to establish a common understanding of how requirements will be identified, analyzed, documented, and managed for the Lively Leopards project.

Requirements will be divided into two categories: project requirements and product requirements. Project requirements are the requirements identified to meet the needs of the project and ensure its completion and readiness to hand over to operations. These consist mostly of non-technical requirements. Product requirements are the requirements identified to meet the technical specifications of the product being produced as a result of the project. The inputs for the requirements management plan include the CIS320 elaboration specifications and the lively leopards team charter.

# REQUIREMENTS COLLECTION AND ANALYSIS

In the course required before CIS 420, the teams of CIS 320 collected the requirements deemed necessary to complete the UofL Men’s Basketball Team database. The Elaboration Specification document contained their requirements that were then given to us. The three lists of specifications were then analyzed by our group and then compiled into a list of our own.

The requirements were selected by both uniqueness and how common they were throughout the three documents. Common requirements were included and the unique but necessary one was also chosen. We asked how well they will aid the functionality, security, and clarity of the database. The requirements were then categories and given an ID.

# REQUIREMENT CATEGORIES

The requirement of our project is divided into the categories functional and non-functional. Within those broad categories the requirement is broken up as follows:

* Functional
  + General Requirements
  + Data Input Requirements
  + Home Page Requirements
  + Roster Page Requirements
  + Schedule Page Requirements
  + Statistics Page Requirements
  + Strength Training Tab Requirements
  + Nutrition Tab Requirements
  + Practice Data Tab Requirements
  + Comparisons Tab Requirements
  + Game Recap Page Requirements
  + Guidelines Page Requirements
* Non-Functional Requirements
  + Performance Requirements
  + Security Requirements
  + Accessibility Requirements
  + Reliability Requirements
  + Usability Requirements
  + Scalability Requirements

# COMMUNICATION AND PROGRESS TRACKING

Communication will be managed via weekly meetings every Wednesday during the scheduled class time. Outside of the meetings, communication will be held via GroupMe or Microsoft Teams chat. Any disagreements will be handled amongst the parties involved; if they cannot handle the disagreement amongst themselves, then they can be taken up with the professor. Professor involvement will be kept to a minimum, and only in severe cases. The main goal is to handle the disputes among the team, prior to escalating it to the professor.

Task and who will do them are scheduled through Microsoft Task manager. They are then given a priority status and a linked document if necessary. The agenda for team meetings are prepared prior to the meeting and all members have access to change and alter.

Our group has compiled documents such as this one that outlines terms and conditions upon which we have agreed on. Within the following documents, we have laid out the framework for our project and how we plan to successfully complete each iteration to be able to meet the client’s deadline. The documents that we have organized in our group are as followed:

* Requirements Management Plan
* Requirements Traceability Matrix

# PRIORITIZATION

The chart below displays how the priority of a requirement is chosen:

|  |  |
| --- | --- |
| Priority | Description |
| High | Requirements that are necessary because they compromise the safety, function, and clarity of the database and that must be taken care of. |
| Medium | Requirements that are necessary but will not compromise the main functions of the database. |
| Low | Requirements that are not necessary but add a uniqueness and an add to the function to the databases |

The priority of a requirement is subject to change due to cost and time constraints that may arise during the creation process. All choices have and will be thoroughly discussed to decide what is best for both the team and the project. The changes and the reasoning behind them will be documented throughout iterations.

# PRODUCT METRICS

The product metrics are gauged to measure the project’s success. The product metrics for our project are in terms of quality and cost, as we must deliver our best work to our client with a product that meets their standards, while also not exceeding the costs. Our metrics for costs are measured in US dollars and our quality metrics are measured by the standards set by the client.

Cost:

* Costs are TBD

Quality:

* To ensure a safe, secure database where users can access private information and insert more information as necessary.

# REQUIREMENTS TRACEABILITY MATRIX

The requirements traceability matrix is used to guarantee that the projects specifications and requirements are met. It is a layout of the requirements that should be met and agreed upon by the members of the group. Our trace matrix specifically outlines a specifications ID, category, description, priority, source, and validation.

The ID is the number that is used to identify the specification. The category dictates how mandatory the specification is to the project, using gray scale you are made aware of if the specification is mandatory, should be included, or nice to have. The requirement is the specification description, when that specification is taken care of this is what should happen. The priority uses red, orange, and green to show if the specification is high, medium, or low priority respectively. Source dictates who will take care of that specification. Lastly validation is how we can and will prove the specification works.

# Acceptance

Approved by:

Date:

<Approvers Name>

UofL Men’s Basketball Team Business Sponsor

Date:

<Approvers Name>

UofL Men’s Basketball Team Stakeholder