**Introduction**

**Purpose**

This section outlines the purpose of the database and its integral role within the system. It clarifies the objectives and expectations for the database design and implementation.

**Scope**

This document provides a detailed overview of the database schema design, relationships, constraints, and any relevant considerations for its implementation. It also includes important design decisions, such as normalization, indexing strategies, and referential integrity.

**Intended Audience**

This document is intended for database administrators, developers, system architects, and stakeholders involved in the design, development, and maintenance of the system.

**Database Overview**

**Database Name**

The name of the database is \_\_\_.

**Type of Database**

This database is relational, using MySQL as the database management system (DBMS).

**Storage Engine**

The database uses the InnoDB storage engine for its support of ACID transactions and foreign key constraints.

**Justification for Database Choice**

MySQL was selected for this database due to its high performance, scalability, and support for ACID compliance, making it suitable for managing transactional data in a multi-user environment. Additionally, MySQL's widespread use ensures compatibility with various applications and tools.

**Schema Design**

**3.1 User Table Design**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Constraints | Description |
|  |  |  |  |