Business Requirements Document (BRD)

1. Project Overview

The objective of this project is to develop an Online Task Management System that enables users to create, assign, and track tasks within a team or organization.

This system will provide features for user authentication, task creation, assignment, progress tracking, and basic task management functionalities to enhance productivity and collaboration.

2. Stakeholders

Project Sponsor: O. Dyantyi

Project Manager: P. Jideani

Development Team: S. Oosthuizen

Users: Team members, Managers, Administrators.

3. Business Requirements

3.1 User Authentication and Authorization

* BR-01: The system will provide a secure login mechanism to authenticate users with their credentials (username and password).
* BR-02: The system shall, in its security measures, automatically sign out users that have sudden IP-address changes, to prevent session hijacking.
* BR-03: The system shall enforce role-based access control (RBAC), ensuring that users have appropriate permissions based on their roles (e.g., admin, manager, team member).

3.2 Task Creation and Assignment

* BR-04: The system will allow users to create new tasks by specifying the task title, description, and due date.
* BR-05: The system will allow users to move their tasks into various states (e.g., to-do, in-progress, done) to reflect progress.
* BR-06: The system will provide a front-end GUI to allow users to create tasks. No user will be granted back-end, server-side or database-level access to the system.

3.3 Task Management and Tracking

* BR-07: The system will provide a dashboard for users to view assigned tasks and their respective status.
* BR-08: The system will allow users to update task details, including status (e.g., to-do, in-progress, completed) and progress.
* BR-09: The system will display task information in a highlighted clear card view, for better user experience and to allow for easier progression between states.

3.4 Automatic Updates

* BR-10: The system will update the GUI with the latest task information for all users.
* BR-11: The system will provide real-time updates of tasks and statuses, while also hiding users that have no tasks, for minimalistic design to avoid screen clutter.

3.6 System Usability and Interface

* BR-14: The system will provide an interface that is easy to navigate, by ensuring it complies with key material design principles.
* BR-15: The system will be accessible on various devices, and will not have a queueing function. Users will log in and have the ability to immediately do their duties, without waiting for other users to finish theirs first.
* BR-16: The system will store information as-is (after sanitation) to support multi-language options to accommodate users from different regions. Users should be able to type information in their language of choice and have it saved.

3.7 Data Security and Privacy

* BR-17: The system will ensure that all user data is stored and transmitted securely, adhering to relevant data protection regulations.
* BR-18: The system will store all tasks and user activities to ensure accountability and non-repudiation.
* BR-19: The system will only allow users with predefined roles and accounts to access the system and all relevant data.

4. Non-Functional Requirements

4.1 Performance and Scalability

* NFR-01: The system will handle concurrent access by multiple users without performance degradation.
* NFR-02: The system will be scalable to accommodate increasing numbers of users and tasks.

4.2 Reliability and Availability

* NFR-03: The system will have an uptime of 99.9% to ensure high availability.

5. Implementation Considerations

* IC-01: The system will be built using modern web technologies and follow best practices for security and performance considerations.