**Software Product Management Plan**

**Team Members & Roles**

1. Ms M. Mabapa – Project Manager
2. Ms L. Marumo – Researcher
3. Ms S Bopape – Developer
4. Mr T Lebenya – Tester

**Project Time line**

*Phase 1*: Software Product Vision & Prototyping (Weeks 1-3)

*Phase 2*: Agile Development Planning (Weeks 4-6)

*Phase 3*: Features, Scenarios, and User Stories (Weeks 7-9)

*Phase 4*: Software Architecture & System Design (Weeks 10-12)

**Risk Management**

* ***Legal and Compliance Risks***

~ The system may not comply with university policies or legal requirements

Mitigation : Consult with legal experts

* ***Scalability Issues***

~ The system may not handle a large number of users

Mitigation: Design the system with scalability in mind and conduct load testing to ensure the system can handle peak usage times.

* ***User Adoption and Training***

~ Few users due to lack of familiarity or training

Mitigation: Provide training and offer ongoing support and create a feedback loop to address user concern and improve the system based on their input.

* ***System downtime and Reliability***

~ The system may experience downtime affecting of students to schedule appointments

Mitigation: Regularly monitor system performance and conduct maintenance during off-peak hours.

***Technology Stack***

* *Frontend* : React.js - It is popular for building dynamic and responsive user interfaces with a component-based architecture, making the code easier to maintain
* *Backend* : Node.js - It is efficient for handling real-time operations and I/O-bound tasks which makes it perfect for scheduling system that requires quick updates and notifications.
* *Database* : PostgreSQL - It is highy reliable and has strong community support.