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Technical report on Pine City mall

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# Summary

# Pine City mall is a fiction concept mall designed with current technology trends and an eco-friendly basis. It embraces green building concepts through its uses of sustainable and environmentally friendly materials. The design and architecture have been aimed at creating a clean, modern chic, and a minimalistic serene setting with natural Zen elements. Space is incorporated with feng shui to give visitors a relaxed modern zone. The creative process of the mall was inspired by creating a holistic family centric concept. Part of the design process is to give aspects of makes a mall experience unique and welcoming investors to collaborate for future projects.

# Introduction

This report aims to provide adequate information to motivate financial investment in the Pine city Mall. Pine city mall has been designed to create a futuristic, unique, safe, convenient, and intelligent mall set up, providing its visitors with a uniquely enjoyable experience and removing the stress out of routine shopping experiences and mall visits. Pine city mall took on the challenge of incorporating technology, eco-friendly approach with a modern minimalistic setup, creating a space for flow and movement both in function and layout.

## **Health and safety**

All health and safety regulations have been passed. We have been rated one of the safest buildings in the area.

# Architecture

The architecture incorporated air dynamics of keeping the building cool during warm days and warm during cooler days without the use of aircon. The structure has been designed to make use of a more natural feel, flow, and embracing the surrounding environment.

## **Materials**

A stone building

Description automatically generatedWe have incorporated sustainable materials in the structure such as utilizing hempcrete which is made from Hemp fiber, lime, and water. Research shows that utilizing hempcrete has been great in capturing carbon. The material is airtight, flexible, free from toxins, and highly fire-resistant which is great for both the environment and reducing the risk to health and safety.

Other materials incorporated are recycled plastics, rubber, and metal.

All materials have been used in a way to portray a chic eco-friendly design layout.

# A picture containing building, outdoor, boat, sitting Description automatically generatedDesign

Our Mall design is embracing light, open spaces, greenery, feng shui, and creating a Zen experience. Some of our design features include the following:

## **A close up of a flower garden Description automatically generatedIndoor waterfall**

The waterfall creates an element of flow and neutralizes the noise level with the white sound of pure water rushing. The water feature has been placed in our food court for a relaxed dining experience to enjoy while awaiting service, taking a moment to enjoy a tranquil environment is one of the many majestic gifts in our mall.

## **Indoor garden**

A large building

Description automatically generatedOur Garden is free of pesticides and harmful plants. With glass walls and rooftops, we bring the outdoors inside. Families are welcomed to have picnic settings, play sports, and walk barefoot to just chill out.

# Technology

## A person standing in front of a mirror posing for the camera Description automatically generated**Style scanner**

All our retail stores have implemented smart styling AI technology to their customer experience. Customers may opt for being scanned and directed to styles and sizes best suited for their body shapes and style preferences based on their personality and lifestyle.

Our scanners have helped athletes select the best fit of training shoes and comes highly recommended by the physiotherapists.

A picture containing sitting, table, small, building

Description automatically generated

## **Cleaning Bots**

All restaurants operate with self-cleaning bots, These bots clear tables, separate waste for appropriate recycling categories and sanitize all surfaces fast and efferently. Our bots have to build In germ detectors and will automatically clean any surfaces that exceed a certain bacteria percentage.

## **Food monitor**

With an increased focus on healthy living and consumers becoming more conscious of what their bodies are fuel upon. Our food monitor will scan your plate, and provide you with how many calories, possible allergens, and digesting time after the meal.

Our food monitor will make certain recommendations for what you want to achieve with your body about weight management, vitality, energy, and overall physical health.

## A kitchen with a stove and a sink Description automatically generated**Smart kitchens**

All our kitchens use AI systems linked to the restaurant’s internal system. Our restaurants are guaranteed to always be able to supply food on-demand as managers are alerted when food supply is low and needs restocking.

A picture containing indoor, person, small, child

Description automatically generated

## **Trackers**

We offer tracking bracelets for minors upon entry to the mall. This safety feature helps parents have a more relaxed shopping experience. A special code is created to unlock the bracelet for removal upon exiting the mall which only parents and the security team will know.

# Conclusion

Pine City Mall is the first of its kind in South Africa, we aim to marry the needs of a sustainable future with technology and create thriving communities by providing a low cost holistic, and entertaining experience for all its visitors. We want our visitors boasting about their experiences and be the latest hot spot for happy engagements and memories.

## **Future**

Because we know the future is unpredictable and ever-changing. We only wish to give you a taste of what life would be like by embracing technologies that make our world safer, better, and convenient.

We embrace change and welcome challenges.

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