

Internship
At
Karkinos Healthcare Pvt. Ltd.



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KARKINOS HEALTHCARE PVT. LTD.



About Organization

❖ Introduction

Karkinos is a Greek word meaning "cancer", referring to both the disease and the constellation. KARKINOS HEALTHCARE (KH) aspires to create an end-to-end technology-driven oncology-focused managed healthcare platform in which almost no one is denied care due to a lack of access or affordability.

KH intends to significantly improve access to cancer care services by developing a technology-enabled data-driven platform in which knowledge architecture is centralised and delivery systems are democratised and distributed. The solution includes a 'hub-and-spoke and further spoke' hospital infrastructure supported by robust technology and clinical decision support systems, allowing service delivery in a large patient catchment area.

The model is based on a technology backbone that enables anchor referral hospitals to cater to complex cases, surgery, and radiotherapy, supported by a network of smaller centres for diagnosis and ongoing treatment, allowing treatment to be decentralised, reducing the load on Apex centres for non-complex treatment while increasing accessibility and reducing lost productive days for the family. As a result, it is critical that the 'hub and spoke and further spoke' cancer care hospital network be supported by core infrastructure investments ("Karkinos cloud" and a clinical workflow orchestration and care coordination engine).

Customers, diagnostics and treatment modalities, and clinical data maturity all influence the priority of these applications. The collected data will be key drivers in understanding specific genomic profiles of tumours with clinical annotation, which will aid

- a) A technology platform for diagnosis and data mining
- b) A shared services infrastructure training facility and ongoing clinical R & D

KH believes that technology will be a critical enabler of expert care decentralisation. The technology platform consists of tools/applications that will connect to a Karkinos backbone in a seamless and secure manner.

Vision of Karkinos Healthcare (Vision powered by 4D's)

Detection & Diagnosis – Establishment of participatory systems and near home care, Research on genomics as a foundation approach for prevention, Innovation and game-based outreach approach for early diagnosis and wellness.

Data & Research – Contribute towards Atmanirbhar Bharat through drug discovery research and treatment innovation, Large scale screening and longitudinal data to build robust AI/ML analytics, predictive models and clinical decision support system for real world evidence.

Deliver managed health care – 2 million+ patients served annually, 10 million+ patient hours saved annually.

Need for Karkinos Healthcare

With gross underreporting and inadequate diagnosis, there is a high burden of Cancer in India with almost 1.9 million new cases per year. There is a need to assess the cancer care requirement better and prepare to bridge the demand- supply gap. The cancer care diagnostic and delivery platform in India is presently woefully inadequate.

❖ Objectives of the Internship

Working as Tech- Intern (with Product manager) on various Karkinos Healthcare Apps (KH App, KYR app and Karemitra).

The internship's main goal was to learn about the operations of Karkinos Healthcare Pvt. Ltd, its departments, and the industrial environment in which they operate.

My profile demands me to build and improve on skills which enables me to do the following

- Gain a thorough understanding of the Oncology healthcare domain and the patient journey within the Oncology ecosystem.
- Collaborate with industry leaders and clinicians; and
- Be a part of the digital healthcare journey
- Collect and document requirements and business processes (workflows) as they relate to the application of work principles and practices that support digital health delivery.
- Compiling a competitor analysis of healthcare technology start-ups in India and around the world.

- Working on releasing lot more interesting features to eliminate cancer.
- Research about the usage of healthcare apps in India, specially for the disease like cancer.
- To help users to eliminate or prevent cancer at an early stage. So that it will reduce the cost of treatment, easier the treatment will be and more chances of survival in such cases.

❖ **Organizational Profile**

Mr. R Venkataramanan, Advisor to the Chairman of Reliance Industries Limited and former Managing Trustee of the Tata Trusts, established Karkinos Healthcare (KH). The company wants to create an end-to-end technology-driven oncology-focused managed healthcare platform that ensures that nearly no one is denied care due to a lack of access or affordability. The design and delivery will be done using bespoke cancer care solutions as a one-stop shop in terms of experience, answering key market needs for this specialized health care. Karkinos Healthcare is working to lay the groundwork for the following components: a cutting-edge technology platform curated for oncology, a knowledge network with medical procedures, surgical skills, and a digital pathology center, as well as fifty Level 4, fifteen Level 3, and one Level 1 centers.

❖ **Services Provided by the Organization**

Healthcare in your hands

- Digital technologies to assist you throughout therapy
- Personalized experience
- Customized assistance
- Remote monitoring
- Stay in touch with Care Team
- Effortless remote patient-doctor communication
- Secure and effective medical data management

Wellness Screening

- We screen for cancer
- Body Mass Index, Diabetes & Hypertension
- Clinical examination for Colorectal, oral, breast & cervical
- Health & wellness counselling by general physician, Care Coordination for further treatment
- Risk Assessment for the Seven Non- communicable Diseases

Expertise at every step

- Supported by Karemitra to assist at every step & through your journey towards wellness
- Oncologists
- Tumor Board
- Experienced Practitioners
- Lab & Histopathological Services
- Day-care Chemo Service
- Palliative Care

The Reach

Working at Kothamangalam in Ernakulam District, in the southern state of India, Kerala. Expanded Karkinos Healthcare to West Bengal and Madhya Pradesh in past few months. Will be expanding the presence pan India, at multiple locations soon.

❖ Key Activities/ Projects Undertaken Other than Dissertation

Extensive involvement in Projects for the Karkinos Healthcare different Apps. Some of them are:

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- Documenting all of the Team's requirements (Product requirement documents, release notes after product launched, weekly reports, etc.)
- An understanding of how to keep the team running smoothly.
- Recognize how the app will flow in the future for a more user-friendly experience.
- For the product's next requirements, research and analysis are conducted (Karkinos apps).
- Using MixPanel software, to analyze user engagement.
- To comprehend the acquisition, churn rate, retention, and a variety of other metrics associated with KH app usage.
- Focus on other healthcare applications to discover what users need and what is already available in the market to better understand the healthcare apps in India.
- Designed the wireframes for the KH app's designs.
- Also working on the promotion of new App features.
- In the near future, working on new and essential feature releases.

❖ Key Learnings from Internship

- A. Product Management Concepts: During my internship, I learned a variety of product management concepts. Deep dive into product management and the journey of a product in the market, as well as behind the scenes.
- B. Research and Analysis: Analyzed market data and competitive benchmarking to identify changing trends in oncology health care. Managed and conducted research and analysis for user engagement with Karkinos Healthcare's various apps.
- C. Collaboration: Worked with cross-functional and external teams to gather input on process requirements and to execute the flow of the Karkinos App and technology.
- D. Workflow and process definition: I was able to define workflows and processes in a health care setting. I was successful in defining and emphasizing the pain points and non-value creating components. I was able to present certain points of view that had been thoroughly researched.