**Tesla Pressure Cooker: The Future of Smart Cooking by GENESYS, Providence College of Engineering, Chengannur**

**Project Summary**

The "Tesla Pressure Cooker" project revolutionizes home cooking via advanced tech and AI. Our hackathon focuses on its marketing website. Features include nutrient calculation, anti-burning sensor, steam-resistant internal camera, and voice/light indicators. An AI cooking assistant offers personalized guidance. Additional features: maintenance reminders, scent exhaust diffuser, and dual-zone pressure cooking, ensuring efficiency, safety, and culinary excellence. The website will showcase these features, engage users, and foster a smart cooking community.

**Approach**

Our user-centric approach addresses cooking pain points: safety, nutrition, and time. The website will feature a minimalist, informative design, emphasizing visual appeal and easy navigation. We're using agile sprints for rapid website section prototyping. Modern web frameworks ensure responsiveness, and pressure cooker features are conceptualized for modularity and future expansion.

**Key Findings (Anticipated)**

Initial conceptualization and market analysis suggest:

* Enhanced User Safety & Convenience: Anti-burning sensor and camera reduce accidents, simplify cooking.
* Improved Nutritional Outcomes: Nutrient calculation empowers healthier dietary choices.
* Strong Market Differentiation: Unique AI assistance, dual-zone cooking, and scent diffuser offer a competitive edge.
* High User Engagement Potential: Interactive AI assistant and community website foster loyalty.

**Generative AI Tools Used**

Generative AI has been crucial in accelerating our project:

* ChatGPT: Insights from user feedback, problem identification with existing models.
* Gemini (Google): Abstract generation, marketing copy, logo design concepts.
* MGX: Utilized for webpage creation, including layout and structural elements.
* DALL-E: Creation of unique promotional images and icon designs.
* Bolt New (AI Code Generation Tool): Boilerplate code for website front-end, API call structuring.