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### ZANNLAB

# **PROJECT** REPORT

**Empowering Your Enterprise** for Success

Prepared for

**Green IP Core** 

Presented by

**Rannlab Technologies** 







### **Green IP Core**

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### 1. INTRODUCTION

Green IP Core is a comprehensive semiconductor solutions provider specializing in low-power design, verification, and FPGA solutions. It sought a dynamic platform to showcase its services, manage content, and engage with its audience. The goal was to create a user-friendly platform aligned with industry-specific needs.

### 2. RESEARCH & ANALYSIS

The foundation of this project was thorough research and analysis to ensure the platform would meet user requirements and excel in the competitive semiconductor industry.



#### **UNDERSTANDING REQUIREMEANTS**

Project overviews are the initial touchpoint for potential users visiting your platform. They help showcase why Green IP Core stands out and the value it delivers to its clients.



#### **COMPETITOR ANALYSIS**

Researched similar platforms in the semiconductor industry to identify trends, strengths, and areas of improvement.



#### MARKET DEMAND

Analyzed industry requirements and technological trends, ensuring the content and functionality would meet semiconductor industry expectations.

This phase ensured our approach was data-driven & aligned with project requirements and goals.

#### 3. UI DESIGNING

The next step was to translate our research into a user-friendly design: After designing, Green IP Core's team will approve the design after multiple iterations, paving the way for the development phase.



# WIREFRAMES & PROTOTYPES

Created initial wireframes to outline the platform's structure, ensuring intuitive navigation.



# CLIENT COLLABORATION

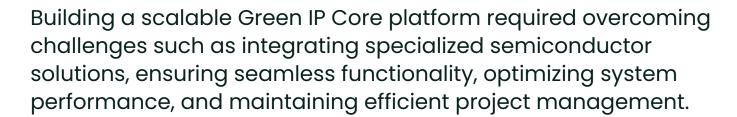
Engaged with the client to enhance the platform, integrating their feedback to align their vision requirements.

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# RESPONSIVE DESIGN

Ensured the design was mobile-friendly and visually appealing across all devices.

### 4. PROBLEM STATEMENT



#### 1. SCALABILITY

The platform needed to support diverse semiconductor design and verification solutions.

## 2. USER EXPERIENCE

Green IP Core required an intuitive interface to navigate and explore content effectively.

### 3. CONTENT MANAGEMENT

The client needed a CMS that enabled nontechnical staff to easily update & manage the web.

### 5. PROPOSED SOLUTION

To address the client's challenges, we implemented:



### Custom Post Types

Created tailored post types for low-power designs, ASIC, FPGA, and verification services.



## Dynamic Search and Filtering

Integrated advanced filters to improve search functionality and enhance the user experience semiconductor service seekers.



### CMS Optimization

Optimized the platform dashboard, enabling non-technical users to efficiently update manage content on Green IP Core



#### Performance Enhancements

Improved loading speed with caching solutions content optimization & adaptive streaming for seamless performance.

### 6. RESULTS

The newly developed platform enabled Green IP Core to:

- → Streamline service management and offerings.
- → Enhance engagement with both clients & industry partners.
- → Improve brand visibility through SEO-optimized content.