Code Smart

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Group 1

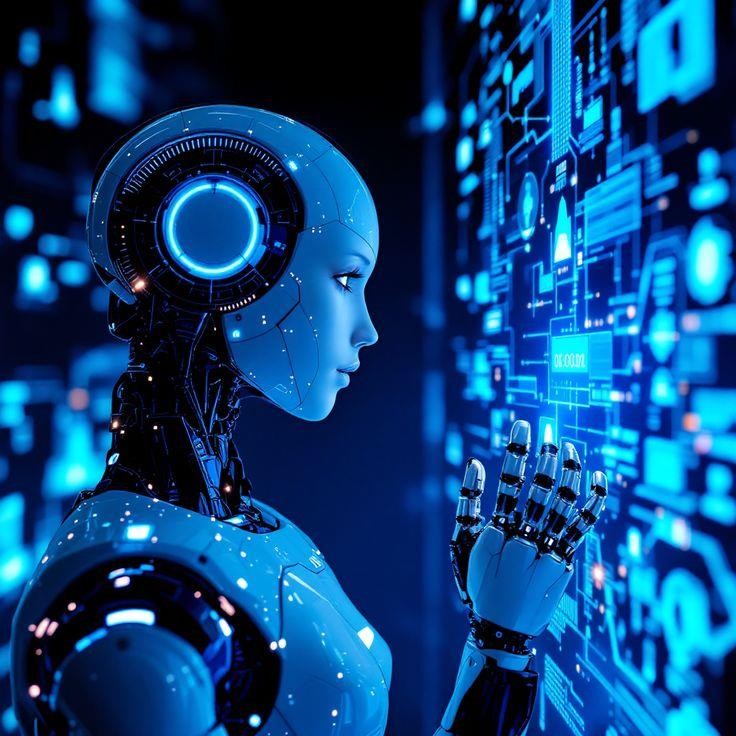


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**Name of the Organization: Code Smart**

# Introduction

## Background: Why Code Smart Was Born

Code Smart was created out of a real struggle. As a student, I often found myself in situations where I desperately needed help with schoolwork and coding, but instead of receiving genuine support, I was used and taken advantage of. The pain of going through such experiences made me realize that no learner should ever have to face those kinds of challenges just to gain knowledge.

Many students today do not know where to start when it comes to coding and technology. Some are left behind because they learn at a slower pace, while others lose motivation because they lack proper guidance. Learning should never come with shame, pressure, or exploitation.

That is why Code Smart was born. The platform exists to provide a safe, supportive, and accessible environment where every learner — whether fast or slow — can grow at their own pace. Code Smart empowers students by offering clear, simple, and step-by-step tutorials that make learning easier and more enjoyable.

Ultimately, Code Smart is about giving back to the student community. It is about ensuring that no learner feels left behind or unworthy. It is about making education free, fair, and accessible to all.

## Vision

* To create a world where every learner has equal access to coding knowledge.
* To empower students to become confident, independent, and innovative problemsolvers.
* To make coding simple, practical, and enjoyable for learners of all levels.
* To build a global community of learners who grow together without judgment.

## Mission

* To provide step-by-step coding tutorials that cater to both fast and slow learners.
* To offer a safe, supportive platform where students can learn without fear or exploitation.
* To encourage self-confidence and independence in learning.
* To make coding resources free and accessible to all students worldwide.
* To inspire the next generation of programmers by simplifying complex concepts.

# Target Audience

* university students studying programming

Beginners who are new to programming

* Learners preparing for assessments nd exams
* Anyone who wants a structured resource to understand coding fundamentals

# Purpose of the Website

• The purpose of Code Smart is to provide a centralized learning platform where students can access tutorials, coding fundamentals, and guided resources. This will help learners strengthen their foundation in programming and prepare them for assessments, projects, and industry readiness.

# Proposed Website Features and Functionality

• The website will consist of the following main pages:

1. Home Page – Contains vision, mission, and introduction. 2. Fundamentals – Covers programming fundamentals for each language. 3. Tutorials – Provides step-by-step coding tutorials. 4. About Us – Background and purpose of Code Smart.

5. Contact – Embedded Google Maps location and contact form.

# Design and User Experience

• - Color Scheme: Professional and clean (blue, white, grey). - Typography: Readable fonts such as Arial or Roboto. - Layout: Simple navigation bar with links to each section.

* User Experience: Easy navigation, mobile-friendly layout.
* Wireframes: Low-fidelity sketches will be included to show layout.

# Technical Requirements

• - Hosting: GitHub Pages or XAMPP for local testing. - Domain: Optional custom domain (e.g., codesmart.co.za).

* Languages: HTML, CSS, JavaScript.
* Tools: Visual Studio Code, Git, Figma for wireframes.

# Timeline and Milestones

• Week 1-2: Research, planning, and proposal writing. Week 3: Design low-fidelity wireframes.

Week 4: Develop core website structure (HTML/CSS). Week 5: Add tutorials and fundamentals sections.

Week 6: Add About and Contact pages. Week 7: Testing and improvements.

Week 8: Final submission.

# Budget

• Estimated costs:

- Hosting: Free (GitHub Pages). - Domain name: R100 – R150/year. - Tools: Free (VS Code, GitHub, Figma).

Total Budget: Approximately R150.

# References

• - W3Schools. (2025). HTML, CSS, JavaScript Tutorials. Retrieved from https://www.w3schools.com

- Mozilla Developer Network (MDN). (2025). Web Docs. Retrieved from https://developer.mozilla.org - Course materials from WEDE5020.

<https://pin.it/6YK2vbTmR><https://pin.it/3XpdMpNIj>[https://pin.it/vFtkzUqpw https://pin.it/vFtkzUqpw](https://pin.it/vFtkzUqpw)

Got it 👍 Here’s a draft for your **Second Version Proposal** that you can copy into Word:

**📘 Code Smart – Proposal (Second Version)**

**1. Introduction**

Code Smart is an educational platform designed to simplify the learning of programming languages. It provides a structured, step-by-step approach with tutorials, exercises, and resources that help students and beginners learn to code effectively.

The first version of the project established the foundation with a working website. In this second version, we present **major improvements** to usability, design, and content.

**2. Objectives**

* To provide a **responsive and user-friendly platform** for programming tutorials.
* To ensure **organized tutorials** divided by programming language.
* To build **consistent branding** with a logo, color theme, and professional navigation.
* To include an **About and Contact page** with real details.
* To integrate **professional login and register pages**.

**3. Improvements in Version 2**

**🔹 Website Layout & Responsiveness**

* Updated **style.css** with modern responsive design.
* Navigation bar redesigned with a **logo and brand name**.
* Tutorials now placed inside **lesson boxes** for better readability.
* The **Start Now button** redesigned with colors aligned to the website’s theme.

**🔹 Content & Structure**

* Tutorials divided into categories: **HTML, Python, JavaScript, C++, Java**.
* Each tutorial includes **step-by-step lessons** and code examples.
* Lessons formatted with **highlighted code blocks** for clarity.

**🔹 Visual & Branding**

* Added **logo (Modern Coding Logo Design)**.
* Improved **footer design** with copyright text aligned to brand colors.
* Hero image centered and optimized.

**🔹 Pages Added / Improved**

* **Home Page** – Start Now button, vision, mission, and call to action.
* **Tutorials Page** – Tutorials in grid/box layout divided by languages.
* **About Page** – Information on Code Smart’s vision, mission, and motivation.
* **Contact Page** – Contact details and motivational line.
* **Login & Register Pages** – Redesigned to look more professional.

**4. References**

* Images:
  + Modern Coding Logo Design (images/Modern Coding Logo Design.png)
  + Learning Hero Image (images/WhatsApp Image 2025-07-17 at 21.27.36.jpeg)
* Code Examples: HTML, Python, JavaScript, C++, Java basics.
* Feedback and improvements from **Version 1 proposal**.

**5. Conclusion**

With these updates, Code Smart is now a more **professional, user-friendly, and visually appealing** platform. The improvements focus on both functionality and design, ensuring learners can **Learn. Code. Grow.** with confidence.

Future updates will focus on interactivity (quizzes, coding challenges), backend features (user accounts, progress tracking), and advanced tutorials.

👉 Do you want me to also draft a **Motivation section** you can paste into both the **About** page and this proposal?