

**SE 216 – SOFTWARE PROJECT MANAGEMENT
REQUIREMENTS DOCUMENT**

PROJECT NAME:CodeCraft

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REQ. #	FUNCTIONAL REQUIREMENTS
1	The platform shall provide interactive tutorials for various programming languages, including Python, Java, JavaScript, Ruby, HTML, and CSS.
2	The platform shall offer users exercises to practice their coding skills in the chosen programming language.
3	The platform shall present users with small projects to complete, allowing them to apply their learned concepts in a practical setting.
4	The platform shall integrate an AI assistant powered by OpenAI Codex to provide real-time feedback and suggestions for code optimization.
5	The AI assistant shall analyze user code and suggest improvements for readability, efficiency, and best practices.
6	The platform shall offer a user-friendly interface that is easy to navigate and understand for users of various experience levels.
7	The platform shall allow users to track their progress through the curriculum and individual exercises.
8	The platform shall provide a search functionality for users to easily find specific topics or resources.
9	The platform shall allow users to create and share their own coding projects within the community.
10	The platform shall integrate with various code editors or IDEs to allow users to practice directly within the platform.
REQ. #	NON-FUNCTIONAL REQUIREMENTS
1	The platform shall be accessible from various devices, including desktops, laptops, and tablets.
2	The platform shall have a response time of less than 2 seconds for user interactions.
3	The platform shall be secure and protect user data in accordance with relevant data privacy regulations.

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4	The platform shall be scalable to accommodate a growing user base.
5	The platform shall be maintainable and adaptable to future changes in programming languages and technologies.
6	The platform shall offer user interface (UI) customization options to cater to different user preferences.
7	The platform shall be localized to support different languages.
8	The platform shall offer 24/7 customer support through various channels (e.g., email, chat).
9	The platform shall have clear and concise documentation for both users and developers.
10	The platform shall comply with relevant accessibility standards to ensure inclusivity for users with disabilities.