

# SE 216 – SOFTWARE PROJECT MANAGEMENT

## PROJECT NEEDS DOCUMENT

PROJECT NAME: CodeCraft

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#	SOFTWARE NEEDS	DESCRIPTION
1	Programming Language	a high-level programming language like Python that is appropriate for web development.
2	Web Framework	a Python-compatible framework similar to Django that makes web application development easier.
3	Database Management System	Progress tracking can be done with unstructured data using Microsoft Azure Cosmos DB. For structured data, such as user credentials, Google Cloud SQL is used.
4	API Integration	An API to interface with Gemini for AI code support features.
5	Code Editor	One example of an integrated code editor is Visual Studio Code, which also includes code completion features and syntax highlighting.
6	User Interface Framework	A framework such as Bootstrap, which is multilingual and can be used to create an interactive and user-friendly online interface.
7	Version Control System	Git for monitoring changes to the code and facilitating teamwork.

#	HARDWARE NEEDS	DESCRIPTION
1	Development Machines	Personal computers for development purposes with sufficient processing power and memory for running development tools and testing the application. Minimum requirements to be determined based on chosen software.
2	Development Kit (Optional)	Specialized hardware for prototyping and testing AI functionalities (if your AI integration is complex).

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#	SUPPORT NEEDS	DESCRIPTION
1	Cloud Service Provider Support	Technical support from Microsoft Azure for server setup, configuration, and troubleshooting.
2	Programming Language and Framework Documentation	Access to comprehensive documentation for Python, Django, and other development tools.
3	Git Version Control System Training	Training or resources for team members to learn and effectively utilize Git.

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PROJECT SCHEDULE

