

AI-assisted software development

The latest advances in Artificial Intelligence have enabled us to create new AI-assisted ways of interacting with project data that drastically enhance communication about key aspects of IT projects. Easier communication has significant effects - Projects where business and development goals align generally adhere to schedules better and encounter fewer problems overall.

What AI can do and how it should be used

Modern AI can be used to solve well-defined problems, and that has made it possible to create custom AI helpers that help people with intellectual work in a way that wasn't possible before. AI can be used to give new ideas, spot possible deficiencies, and formulate text into a more readable format.

AI differs from human intelligence and it's crucial to recognize its limitations. AIs are tools that require humans to oversee the work and validate the output. How effective AI is depends heavily on the quality of the instructions given to the AI and the background data given for the task. For complex tasks, the LLM AI works best when built inside a tool that takes care of managing instructions and data and leaves the user to concentrate on the actual work at hand.

AI in software development

One thing that all the development processes from V-model to agile and DevOps try to tackle is the communication between the software users through the business to developers and back. Different tools, processes, and frameworks do their best to ease communication, but in the end, there hasn't been a silver bullet to make it easy enough - until now. This is a domain where AI truly shines.

AI finally makes specification maintenance easy enough so people can finally easily maintain up-to-date specifications. With a backbone to rely on, communication can rely on agreed facts, development can get all the important facts that are needed and it also allows using AI code-generating tools much more efficiently.



Stakeholder's perspective

Intelligently used AI helps in the whole software development work, benefiting both developers and end-user organizations. By automating boring tasks and providing intelligent assistance, AI enables people to spot possible shortcomings and focus on higher-level problem-solving and innovation. Here are a few tasks where AI can be used for a great benefit.

Applications of AI in development

Specification improvement: Intelligent tools assist in writing more relevant specifications (user stories, requirements). They suggest what to include and help formulate the final text, leading to more accurate development and increased project efficiency.

Improving Issues: AI enhances bug reports and improvement suggestions by identifying gaps, allowing users to refine descriptions immediately. Better bug reports expedite problem-solving.

Integrating change requests into specifications: Our tool imports change requests into specifications, identifies related sections, suggests changes, and drafts updated documents. This simplifies maintaining specifications, making the process significantly easier.

Automatic display of related issues/specifications: The tool shows related issues/specifications, aiding in knowledge management by revealing relevant information, such as previously recorded errors or related user stories.

Generating test cases: AI helps generate test cases 50% faster and more accurately, assisting in identifying key test areas and transforming test ideas into test cases, leading to comprehensive testing and better quality.

Ask the assistant: Our intelligent assistant answers any question about the project specification, making large documents manageable and easy to navigate. This interface ensures that even extensive specifications are accessible, enhancing usability and encouraging regular use.

Benefits for Stakeholders

Business: Our tool empowers business stakeholders to effectively communicate their requirements, ensuring that the developed software aligns with their needs and goals.

Developers: AI provides developers with valuable insights, suggestions, and automation capabilities, enabling them to work more efficiently and deliver high-quality software.

Quality assurance: Artificial Intelligence enhances the QA process by automating repetitive tasks, generating test cases, and identifying potential issues early in the development cycle.

End-users: With these advanced features, it is easier to collect end-users needs and manage them into coherent specifications and, finally, into the features in the application.



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